easy

Full Line
Product Brochure

WARRANTY 2 YEARS GUARANTEED

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Sing Easy specializes in audio and video electronics for both consumer and professional markets. Our operations encompass research and development, engineering, sales, marketing, distribution, and customer support.

Our product lineup features entertainment centers, touch monitors, wireless microphones, wireless distribution systems, pre-amplifiers, audio processors, amplifiers, passive and active speakers, video matrix processors, and power sequencers. We are committed to expanding our product range to meet the evolving needs of our customers.

Bars and Cafes

The compact size and powerful versatility of our amplifiers make them an excellent option for installation in bars and cafés. These systems can be easily tailored to deliver outstanding background sound in both single and multi-zone environments.

Restaurants

Restaurants use music to enhance the dining experience, creating a need for dynamic sound solutions. Bar areas require high sound pressure, while dining areas need a more subdued level. Our products are perfectly suited to meet these demands, delivering the necessary power to any channel, zone, and room size.
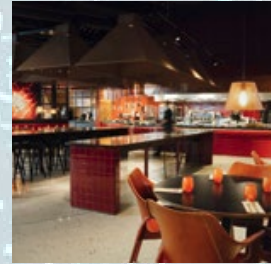
Retail stores

Background music in retail stores should enhance the store's atmosphere, resulting in diverse system requirements. While some stores benefit from a subtle background ambiance, others may need a more powerful sound. Our amplifiers are designed to meet all these needs, allowing for easy setup of sound zones and efficient power distribution where it's needed most.

Fitness Centers

Fitness centers require high-quality sound and exceptional system flexibility. Background music sets the tone in gym and workout areas, while energizing tracks deliver powerful sound during CrossFit classes. Our products are designed to thrive in these challenging environments, providing the performance you need.
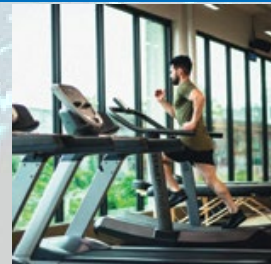
Hotels and Education Sites

For larger installations in hotels and educational facilities—such as auditoriums, theaters, expansive dining areas, and multiple large meeting rooms—complete power and system flexibility are essential. Our amplifiers allow you to easily match the required power and channels, enabling straightforward configuration to meet all your varying sound needs.

Corporate/ Enterprise

The corporate environment encompasses a variety of applications, including open office spaces, audio for boardrooms and conference rooms, meeting areas of all sizes, as well as warehouses, cafeterias, and break rooms. Sing Easy is the perfect solution, as a single amplifier can effectively meet all these diverse sound requirements.
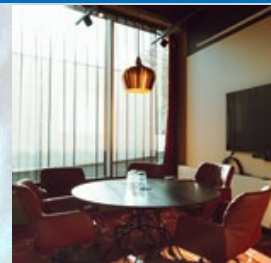
House of Worship

Houses of worship require reliable, high-quality voice amplification that can cover large areas with multiple specialized speakers. Sing Easy products are ideal for these settings, providing excellent amplification at low power levels, ensuring superior speech intelligibility.

SING EASY WMR98OC

OCTA CHANNEL WIRELESS CONFERENCE MICROPHONE

The Sing Easy WMR98OC is an octa-channel digital wireless receiver that delivers eight channels of exceptional audio quality, along with robust RF signal stability and efficiency. Designed as a single rack unit, it features advanced setup capabilities and comes bundled with eight WCM80 desktop wireless meeting microphones. The rugged, lightweight, and compact all-metal chassis houses eight independent receivers, each equipped with its own audio and RF meters, gain control, and outputs that can be configured for either direct or summed signal routing, offering great flexibility.

FEATURES

- True diversity technology for best reception quality
- UHF band to avert interfering frequency
- Eight receivers in a rugged 1RU metal chassis
- Intuitive front-panel TFT menu and controls
- Audio and RF LED meters with peak indicator
- Optimized to simultaneously operate significantly more channels in applications up to 50 meters
- Optimized scanning automatically finds, prioritizes, and deploys the cleanest frequencies to transmitters over IR sync
- Individual gain controls, LED meters, XLR audio output for each channel and both XLR and 6.3mm mixed audio output
- Advanced digital pilot technology distributed 75 frequencies in each group which ensures 600 preset frequencies
- TFT color display on receiver and transmitter, both can display the audio level, battery voltage and menu settings

SPECIFICATIONS (WMR98O RECEIVER)

Frequency Range 610 – 690 MHz *[1]	**Operating Range** 50 meters line of sight *[2]	**Audio Frequency Response** 40 Hz to 20 KHz ±3 dB
System Latency < 3 ms	**Audio Output Connector** XLR and 1/4" (6.3 mm) unbalanced	**External Antenna Connector** 2 BNC (50 Ω)
Operating Temperature Range -20°C (0°F) – +50°C (122°F)	**Operating Relative Humidity** 5 - 95 % (non-condensing)	**Material** Aluminium alloy
Power Requirements 12 V DC at 2 A (supplied by external power supply)	**Dimensions (W x D x H)** 420 × 220 × 44mm	**Weight** 2.8 Kg (without power supply)

SPECIFICATIONS (WCM80 DESKTOP CONFERENCE TRANSMITTER)

Transmitter Power 10 mW, typical (varies by region)	**Sound pressure level (SPL)** 110 dB	**Pick-Up Pattern** Condenser
Signal-to-Noise Ratio >90dB	**Dynamic Range** 110 dB A-weighted	**Sensitivity** -95 dB ±2 dB
Material PVC and Glass	**Power Requirements** 3V (2 x 1.5V AA battery)	**Battery Life** Up to 5 hours
Dimensions (W x D x H) - Base 158 × 120 × 57 mm	**Dimensions (Ø x L) - Gooseneck** 19 × 420 mm	**Weight** 616 g (without batteries)

*[1] Other frequencies available depending on applicable regulations in country where system used.

*[2] Actual range depends on RF signal absorption, reflection, and interference.
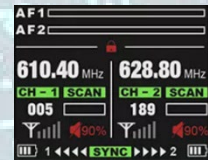
SING EASY WMR98QC

QUAD CHANNEL WIRELESS CONFERENCE MICROPHONE

The Sing Easy WMR98QC is a quad-channel digital wireless receiver that provides four channels of outstanding audio quality, along with reliable RF signal stability and efficiency. This single rack unit comes with advanced setup features and includes four WCM80 desktop wireless meeting microphones. Its rugged, lightweight, and compact all-metal chassis contains four independent receivers, each featuring its own audio and RF meters, gain control, and outputs that can be configured for either direct or summed signal routing, offering versatile options for your audio needs.

FEATURES

- True diversity technology for best reception quality
- UHF band to avert interfering frequency
- Four receivers in a rugged 1RU metal chassis
- Intuitive front-panel TFT menu and controls
- Audio and RF LED meters with peak indicator
- Optimized to simultaneously operate significantly more channels in applications up to 50 meters
- Optimized scanning automatically finds, prioritizes, and deploys the cleanest frequencies to transmitters over IR sync
- Individual gain controls, LED meters, XLR audio output for each channel and both XLR and 6.3mm mixed audio output
- Advanced digital pilot technology distributed 75 frequencies in each group which ensures 600 preset frequencies
- TFT color display on receiver and transmitter, both can display the audio level, battery voltage and menu settings

SPECIFICATIONS (WMR98Q RECEIVER)

Frequency Range 610 – 690 MHz [1]	**Operating Range** 50 meters line of sight [2]	**Audio Frequency Response** 40 Hz to 20 KHz ±3 dB
System Latency < 3 ms	**Audio Output Connector** XLR and 1/4" (6.3 mm) unbalanced	**External Antenna Connector** 2 BNC (50 Ω)
Operating Temperature Range -20°C (0°F) – +50°C (122°F)	**Operating Relative Humidity** 5 - 95 % (non-condensing)	**Material** Aluminium alloy
Power Requirements 12 V DC at 2 A (supplied by external power supply)	**Dimensions (W x D x H)** 420 × 220 × 44mm	**Weight** 2.8 Kg (without power supply)

SPECIFICATIONS (WCM80 DESKTOP CONFERENCE TRANSMITTER)

Transmitter Power 10 mW, typical (varies by region)	**Sound pressure level (SPL)** 110 dB	**Pick-Up Pattern** Condenser
Signal-to-Noise Ratio >90dB	**Dynamic Range** 110 dB A-weighted	**Sensitivity** -95 dB ±2 dB
Material PVC and Glass	**Power Requirements** 3V (2 x 1.5V AA battery)	**Battery Life** Up to 5 hours
Dimensions (W x D x H) - Base 158 × 120 × 57 mm	**Dimensions (Ø x L) - Gooseneck** 19 × 420 mm	**Weight** 616 g (without batteries)

[1] Other frequencies available depending on applicable regulations in country where system used.

[2] Actual range depends on RF signal absorption, reflection, and interference.

Sing Easy CDC is a digital wired and wireless conference processor based on standard Wi-Fi and self-tuning technology. The system operates in the 5GHz band and has 44 communication channels to coexist with other Wi-Fi networks. The unique self-adjusting technology is a strong anti-interference capability, which ensures that the system is free from interference and highly flexible for various applications. The standard Wi-Fi technology makes the system can work all over the world and no ISM limits.

Safeguarding confidential data on your IP network is a top priority. This requires a multi-pronged approach including protecting your network and data as well as equipment that is not easy for hackers to access the network via devices. As AV conferencing equipment becomes increasingly network capable, IT managers need to be assured that these devices are not open to security breaches.

The AES-256 encryption algorithm has been adopted as one of the safest forms of network protection by leading financial institutions, government bodies and health care services.

Many Sing Easy conferencing systems and live audio solutions feature Dante-enabled technology. Our customers have recognized the advantages and efficiencies of routing audio over their gigabit existing network infrastructure. Sing Easy offers Dante audio for a variety of applications including sound reinforcement, recording and conferencing. They are found in boardrooms, meeting rooms, courtrooms, interview rooms, worship spaces, and theatrical venues.

FEATURES

- Full-digital signal transmission and processing
- One CAT5e cable to transmit up 64 channels audio and other signals
- All microphone units support audio and ID independent output. Working with voice recognition system to achieve voice role separation
- High-fidelity sound quality by lossless audio transmission technology, 48K audio sampling rate and 20Hz ~ 20KHz frequency response
- A single conference processor can realize the independent control and merging of 4 conference rooms, can handle the cascade of multiple conference processors to realize the merging and separation of larger conference rooms (Optional)
- "Hand-in-Hand-Loop-Network" connection makes the system always working perfectly no matter changing discussion unit or having any malfunctioned units
- The sensitivity of the unit microphone and 8 segment equalizer EQ adjusted independently
- Conference processor can output 16 segment equalized EQ to achieve sound field adjustment; pressure limit, which can recognize the noise gate passed by human voice. AGC automatic volume gain control; AFC automatic feedback suppression and auto-mix technology
- Sound output through separate zones function, each zone is automatically adjusted according to the volume of the position of the microphone, achieve longer distance pickup avoiding feedback
- Echo cancellation, remote two-way real-time call with another conference processor or another third-party video conferencing terminal
- USB recording, processor monitor, advanced noise cancellation technology to realize clearer recording
- System date, time management, and support count-down speech
- Optional DANTE output module with other DANTE equipment used
- Can drive 2 × 120W POE speaker, through extension main unit, support up to 16 POE speakers

HIGHLIGHTS

Ease of Use

When the system is used wirelessly, there is no additional wiring and testing, it provides 360-degree coverage of a 30-metre radius using the Wi-Fi signal. All microphone units automatically detect the access point and communicate via a secure WPA2 connection to ensure conference security

Compact yet versatile design

The product design reflects the elegant but compact and user-friendly functions. The conference unit has a graphical user interface, including lighting reminder, anyone can get started quickly. Easy to install, user-friendly to operate, and is designed to ensure higher productive sessions

Excellent legibility sound

Conference processor can output 16 segment equalized EQ to achieve sound field adjustment; pressure limit, which can detect the noise gate passed through the human voice; AGC automatic volume control; AFC automatic feedback cancelation and auto-mix technology

High tech intelligence platform

Timing function, overtime reminder, voting results multi-platform synchronization, network control and meeting management, conference smart reservation, worldwide firmware real-time updates, the integration of IT technologies provides intelligent conferencing platform

FUNCTIONS

- Compliance with IEC 60914, GBT 15381-94
- Connect with CFEX full-digital extension main unit, it can expand to 5200 discussion units
- "Hand-in-Hand-Loop-Network" connection and the system assigned to each unit independently ID to avoid ID conflict
- Both wired and wireless discussion units can connect to the processor, fast and easily to adding delegate of meetings
- Up to 8 wireless microphones to be turned on at the same time, adaptive interference avoidance technology to achieve stronger anti-interference capability, compliant with IEEE 802.11n standard Wi-Fi for 5GHz
- 2 channel audio input, XLR or RCA type, for local audio input or remote video-conferencing input
- Maximum 8-channel audio output, XLR, RCA or Phoenix type, can be connected to simultaneous interpretation output or partitioned output
- Add the audio input box, the system can be connected to other condenser microphones or dynamic microphones, more choices for users
- Built-in multi-way internal communication function
- TCP/IP connection between processor and PC
- RS232 central control, realize microphone switch, priority, volume, and other controls
- RS232 or RS485 to send the PELCO/VISCA protocol to realize camera auto-tracking function
- Hot plug-and-play, and auto-recovery function
- Without using PC software, our conference processor still provides following settings:
- Limit on the number of speaking persons: By Setting the number of active units at the same time
- (Number is 1/2/4/6/ units), supports up to open 32 wired microphones in full-on mode
- Discussion modes: "OPEN" Free for all, limited by the active units setting by processor，"VOICE" Can activate MIC by detecting sound without press button, "OVERRIDE" First in First out, "APPLY" To apply then to speak, "PTT" Press to speak (Optional),"ALL" Full open mode (Optional)
- Voting function: Approve/Abstain/Object
- Chairman unit has priority to close all other units or mute them temporarily
- Chairman unit can consent the application for speaking from delegate
- Simultaneous language interpretation
- With PC software to add more ways of voting:
  - ✓ Approve/Object
  - ✓ Approve/Abstain/Object
  - ✓ Level：1/2/3/4/5
  - ✓ Ranking：--/-/0/+/++
- By using RFID card to identify, can realize voting with names.

CONTROL & INDICATORS

- LCD display to show all the operations and results
- 4-Way button for menu operate
- USB interface for audio recording
- One-button press to start recording
- light indicator
- Master volume control knob

INTERFACES

- Front panel USB recording interface
- 1 × 3.5mm headphone for monitoring
- 1 × RCA audio input
- 1 × XLR audio input
- 1 × RCA audio output
- 1 × XLR audio output
- 6 × Phoenix audio output connector
- 2 × RJ45 digital audio connection
- 2 × RJ45 for chairman unit, delegate unit, unit translators and other connection
- 1 × RJ45 for wireless access point or router
- 1 × DP9 male interface for external control
- 1 × DP9 female interface for camera
- 1 × Three-pin phoenix interface for camera control keyboard
- 1 × RJ45 for computer connection or network switcher
- 1 × Grounding screw
- 1 × 100 ~ 240V AC power interface

SPECIFICATIONS

Communication Protocols	Ethernet and 802.1n
Encryption Technology	WPA3 AES256 with SHA256
Working Frequency	5.2 GHz to 5.8 GHz
Mounting	19" standard rack
Frequency Response	20 Hz to 20 KHz
Noise Ratio (S/N)	> 96 dBA
Total Harmonic Distortion	< 0.05%
Channel Crosstalk	> 85 dB
Dynamic Range	> 94 dB
RS232 Control	1×9 pole Sub D female socket 1×9 pole Sub D male socket
Ethernet Control	Yes
Line In Level	+10 dBu
Line Out Level	+12 dBu BAL
Output Impedance	> 1 KΩ
Network Interface	RJ45
Camera Control Method	RS-232, UDP
Camera Tracking Protocol	PELCO-P, PELCO D, VISCA
Power Consumption	Average (12W) Maximum (150W)
Operating Voltage	AC 100 V-240 V
Operating Temperature	0°C to 45°C
Storage Temperature	20°C to 50°C
Housing Color	Black
Dimensions (L×W×H)	483 x 260 x 43.6 mm
Weight	3 Kg

OPTIONAL INTERFACES

- DIO44 4x4 input/output Dante interface
- DIO88 8x8 input/output Dante interface
- DIO1616 16x16 input/output Dante interface

SYSTEM DIAGRAM

CFAP
5G Wi-Fi Conference Access Point

Cat5e or Cat.6

DCFC2
Digital Wired/Wireless Conference Processor

5G Wi-Fi   Cat5e or Cat.6

SING EASY CFAP

CONFERENCE ACCESS POINT

The Sing Easy CFAP is a powerful 5G Wi-Fi access point, specially optimized for Sing Easy wireless conference solutions products, providing stable performance for all the speech units.

Safeguarding confidential data on your IP network is a top priority. This requires a multi-pronged approach including protecting your network and data as well as equipment that is not easy for hackers to access the network via devices. As AV conferencing equipment becomes increasingly network capable, IT managers need to be assured that these devices are not open to security breaches.

The AES-256 encryption algorithm has been adopted as one of the safest forms of network protection by leading financial institutions, government bodies and health care services.

FEATURES

- 5GHz dual band
- 1750Mbps transmission rate
- WPA3 AES256 with SHA256
- MAC address filtering
- SSID-hiding
- Typical coverage range 30m
- Each AP can connect up to 50 conference units
- 6 hidden antennas
- LED status indicator for signal and power
- POE support
- White color modern design

SPECIFICATIONS

WLAN Standard	802.11ac, 802.11a, 802.11g, 802.11b
Frequency Bands	5 GHz U-NII
Max Transmission Power	27 dBm
Antenna Type	Four built-in 5 dBi antennas
Link Speed	1200 Mbps
Interfaces	1 x Gigabit WAN/POE Port, 1 x Gigabit LAN Port
LED Status Indicators	Power, Network Audio, Wireless (Yellow / Blue)
Reset Key	Push button for Factory Reset
Housing Color	White
Power Supply	Power Over Ethernet, 802.3at, DC 12 V 1.5 A
Power Consumption	≤ 13 W
Dimensions (L × W × H)	220 x 220 x 45 mm
Weight	300 g

SING EASY CFCU2
WIRELESS CONFERENCE UNIT

Designated speech mode
A new meeting experience
In addition to 6 voice modes, a special voice mode has been added to the system. The microphone can be switched on by the chairperson or the management controller without having to switch it on manually.

Capacitive touchscreen
Never miss important agenda
Equipped with a 4.3-inch capacitive touch screen, it can be set to display important matters with the progress of the topic agenda. Various information can be shown through the standard quasi-physical clock, the capacitive touch screen is more convenient for users to operate.

Built-in loudspeaker
Powerful three-frequency sound field
Built-in, high-quality, balanced full-range loudspeakers can replace the PA system for small conferences and serve as a backup for medium and large conferences to avoid sudden sound system failures and ensure the normal course of the conference.

Wireless update
Convenient Firmware upgrade
The wireless MCU upgrade function can perform cluster upgrades. When firmware updates are available, devices can be upgraded wirelessly, adding device functions and updating systems such as "smart EQ adjustment, smart screen brightening, etc.".

FEATURES

- Conformity with IEC 60914, GBT 15381-94
- Fully digital signal transmission and processing
- Wireless communication between the conference unit and the controller is based on the WIFI standard IEEE 802.11n, but also supports wired communication: 100M wired network communication
- High-fidelity sound quality, lossless audio transmission technology, 48K audio sampling frequency, 20Hz~20KHz frequency response
- Conference controller can output 16 segment equalized EQ to achieve sound field adjustment; pressure limit, which can detect the noise gate pass through the human voice; AGC automatic volume control; AFC automatic feedback cancelation and auto-mix technology
- Capacitive 4.3-inch touch screen and integrated NFC reader for quick identification of participants
- Supports battery charging, conference unit charging and POE network charging in three ways, supports device display, web server and PC software for intelligent visual management of the battery to protect the needs of uninterrupted, continuous meetings
- Easy function expansion through software modules

CONTROL AND INDICATORS

- Microphone with two-color LED ring, red indicates speaking status, green indicates request to speak
- 4.3-inch capacitive touch display
- Indicator for Volume adjustment
- Indicator for MIC ON/OFF
- Chairman unit with priority button and consent button for the delegates
- Power ON/OFF button is hiding on the left side

HIGHLIGHTS

- Uses 128-bit AES encryption technology, supports WPA/WPA2 wireless secure technology to prevent eavesdropping and unauthorized access
- With low-latency technology, the minimum delay from microphone to speaker output is less than 5 ms
- The 5G wireless multimedia conference unit can be configured into a chairman unit, a delegate unit, a VIP unit or a double delegate unit depending on the different requirements of each conference
- As a VIP delegate unit, the system can set up to 32 VIP delegate units. As long as the total number of microphones already switched on in the system does not exceed 8, the VIP delegate unit can be switched on freely
- The touchscreen software of the conference unit contains five optional function modules:
  - ✓ Voting: Voting with two buttons, three buttons or five buttons
  - ✓ NFC identifier: Login via NFC card for precise identification of user data
  - ✓ Dual simultaneous interpretation channel: Support 2 language channel selectors, each selector supports 64 independent languages
  - ✓ Dual users: Two delegates share one device to achieve camera tracking in two locations; allowing two delegates to speak, log in and vote on one device
- Conference unit via touch screen with normal login function, with IC card slot support by NFC card reading login, support for tea application function
- Each microphone can adjust the sensitivity independently via the touchscreen and supports a setting of -12 dB to +12 dB, the 8-band EQ equalizer can be adjusted independently
- Dual headphone interface design, the volume can be adjusted via the touch screen and rotary knob, dual headphones support both sides of the output of different interpretation channels of voice
- Built-in 2W@8Ω high-fidelity speaker, when speaking in the device, it will automatically mute to prevent feedback
- Hot plug-and-play of the conference unit, automatic recovery
- Support firmware upgrade via wired and wireless networks and support logo and function customization
- Speaker limit function: can set the number of delegate microphone units switched on at the same time
- Has the following speech modes:
  - ✓ OPEN" open mode
  - ✓ VOICE" voice control mode
  - ✓ OVERRIDE" mode "First in First out"
  - ✓ APPLY" application mode
  - ✓ PTT" press and hold to speak (optional)
  - ✓ ALL" full opening mode (optional)
- Combined with a camera and a camera tracking controller to achieve an automatic camera tracking function
- Additional Type-C interface and side charging contacts for charging mobile devices
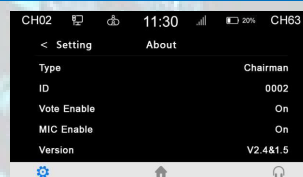
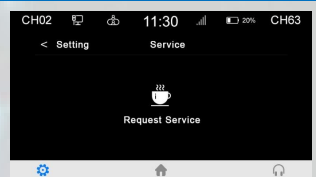## SCREEN SNAPSHOTS
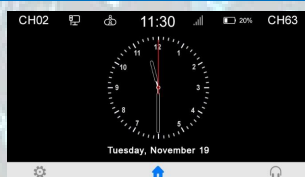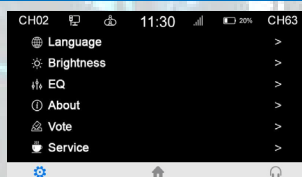
| Clock | Settings Menu | About | Request Services |

INTERFACES

- Pluggable gooseneck microphone terminal
- 2 ×3.5mm stereo headphone jack
- 1 ×3.5mm stereo input jack
- 2 ×RJ45 connectors
- 1 × IC card slot
- Battery pack terminal

www.singeasy.com

Don't be restricted with fixed chairman and delegates conference units, with Sing Easy CFCU2 conference unit, users can configure the conference unit into a chairman unit, a delegate unit and a VIP unit, depending on the requirements of the conference.

As requirements change from time to time, our solution allows you to easily upgrade your existing conference system and add new features by simply ordering an activation license.

The following functions can be activated by purchasing activation licenses: NFC card identification, simultaneous interpretation channel and double delegate unit.

As chairman, you can use the touch screen of the CFCU2 unit to control various aspects of the meeting. You can start and interrupt meetings, view speaker lists, approve motions, view speaker profiles and speaking times and even record meetings and start and end votes with ease.
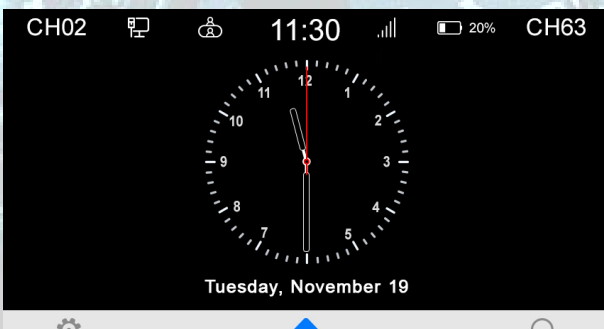
As a delegate, you can view the agenda items under discussion and the remaining speaking time. You can even see who is currently speaking and where you are on the list of speakers.
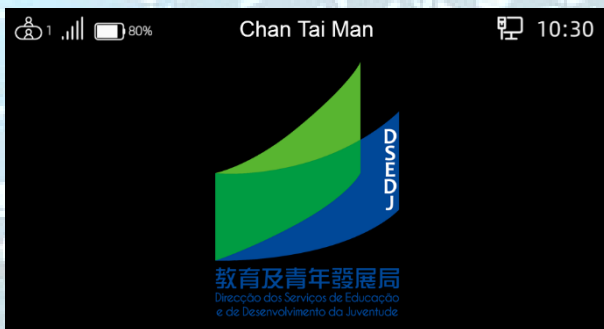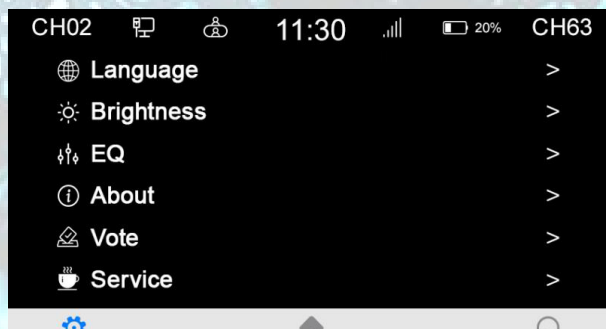
Users can upload the organization's logo to the conference unit's homepage.
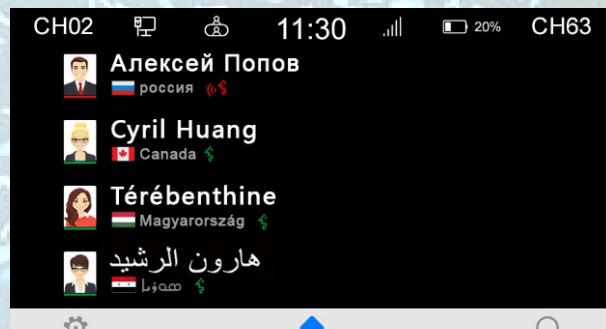
Speakers list function

Home Screen

Settings interface

EQ

About

SETUP MODULE

The basic module of the software consists of a series of functions, e.g. venue design, conference management, main device configuration, contribution device configuration, information display, system identification, system report, display user management.

MICROPHONE CONTROL MODULE

Sub-modules for seating arrangements, delegate management and microphone control (uploading the logo to the conference units and displaying the battery and signal level on the conference units).

NFC IDENTIFICATION MODULE

NFC card registration, delegate information, participants and delegate authorizations

Sign-in by NFC card allows accurate identification of user image, name, position, etc.

Speakers list with speaking time
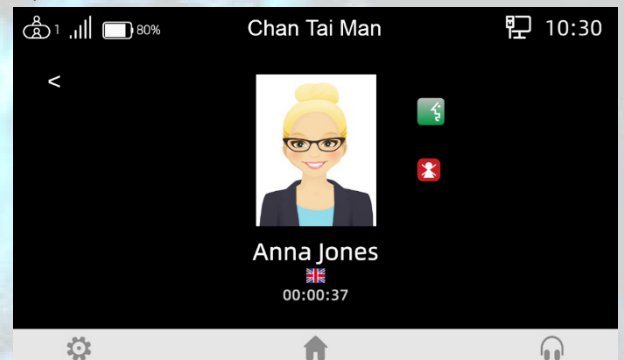
Preloaded user profile photos can be shown on screen

Voting management, seating arrangements and delegate management sub-modules
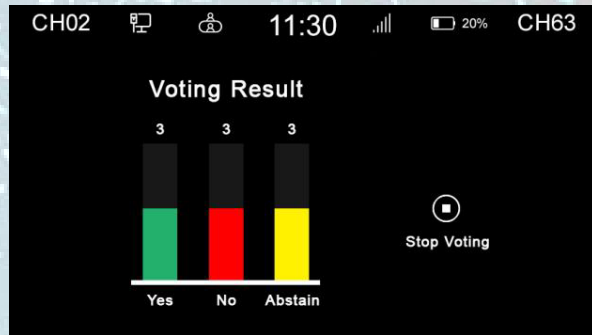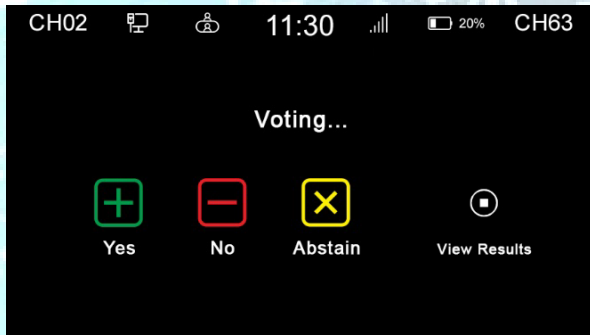
The results of the election, evaluation, voting and registration are displayed in real time, and the data is presented in bar charts, which is more intuitive and reliable. The chairperson can start and stop the voting, and the voting authorization of the units can be customized. In the management software of the conference system, you can activate voting and registration (registration by NFC card can be set).

Simple setup of votes, elections or evaluations in the administration console.
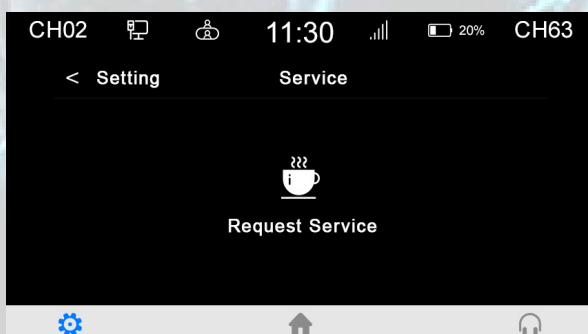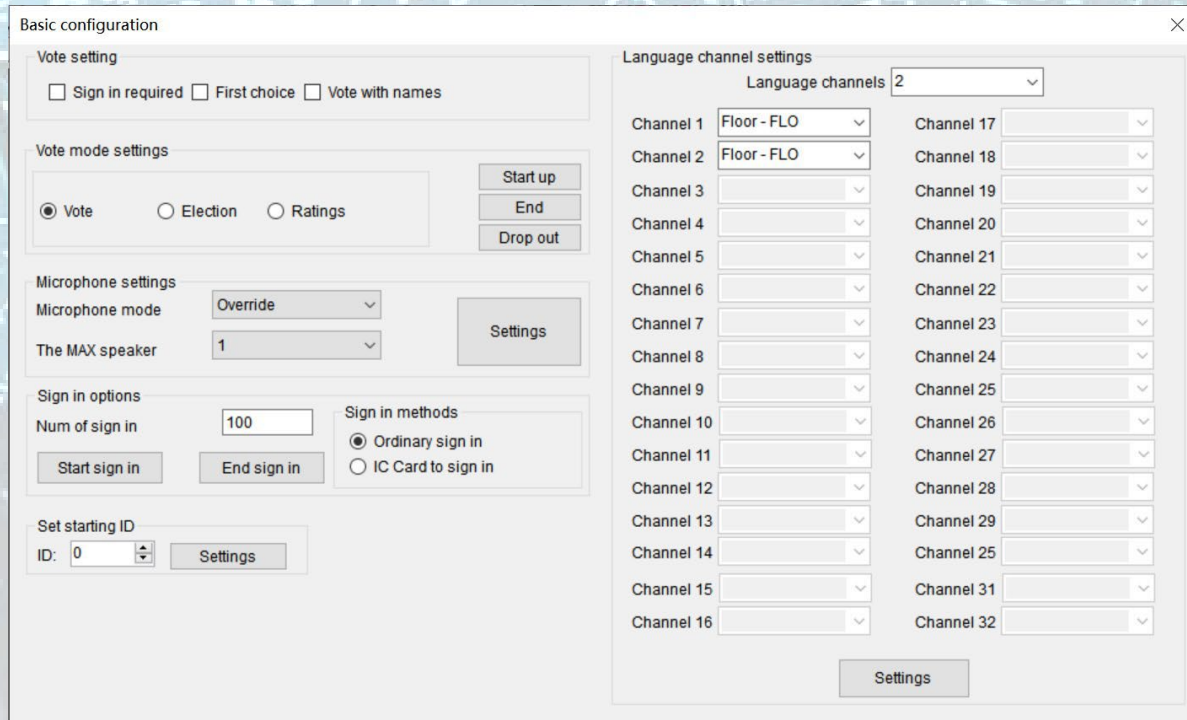
The system provides the function of call service as well as customized one-key call services such as paper, pen and tea. The upper computer software can receive the call information and provide convenient and fast service for the conference.

DUAL 64 CHANNEL INTERPRETATION SELECTOR MODULE

ORDERING CODE: CFINT

The conference unit can select two interpreting channels for two users simultaneously. There is a 3.5 mm headphone jack on each side of the device so that you can listen to the interpretation of two channels in the interface.

As shown in the figure, the two channels CH02 and CH63 are located on the left and right sides of the interface. You can click on any channel to open the channel selection interface, select the language channel corresponding to the desired interpretation by sliding up or down, and slide the desired language channel to the center of the double horizontal line.

DUAL USER MODULE

ORDERING CODE: CFDUAL

Available soon

SPECIFICATIONS

Wireless Communication	5 GHz Wi-Fi standard IEEE 802.11n
Encryption Technology	WPA2-PSK AES
Wired Communication	RJ45 100M
Frequency Response	20 Hz to 20 KHz
Noise ratio (S/N)	> 90 dB
Total harmonic distortion	< 0.1%
Dynamic range	> 90 dB
Screen Size	109.22 mm (4.3 inches), Resolution: 800x480
Screen Type	Capacitive and color multi-touch
Contactless NFC Card Reader	ISO / IEC14443 Type A
Microphone Input	80 dB SPL
Microphone Input Sound Pressure	125dB (THD <3%)
Sensitivity	-46 dBV / Pa
Speaker Output	2W@8Ω
Headphone Terminal	3.5mm stereo Input impedance: 2kΩ
Headphone Load	16Ω Headphone volume: 10mW
Power Supply Modes	Battery powered and POE powered
Power Consumption	2.8 W (wireless connection with battery powered) 3.4 W (POE powered)
Battery Life	≥ 28 hours (continuous speech) ≥ 14 hours (continuous speech with screen interaction)
Housing Color	Black
Operating Temperature	5°C to 55°C
Relative Humidity	< 90%
Dimensions (L×W×H)	217.5 x 138.5 x 69 mm
Weight (without microphone)	1 Kg

SING EASY CFWP

DIGITAL WIRED CONFERENCE PROCESSOR

Many Sing Easy conferencing systems and live audio solutions are equipped with Dante-enabled technology. Our customers have seen the benefits and efficiencies of routing audio through their existing gigabit network infrastructure. Sing Easy provides Dante audio for various applications, including sound reinforcement, recording, and conferencing. These solutions are utilized in boardrooms, meeting rooms, courtrooms, interview spaces, places of worship, and theatrical venues.

FEATURES

- Complete digital signal transmission and processing
- A single CAT5e cable can transmit up to 64 channels of audio and other signals
- All microphone units support audio with ID-independent output, enabling compatibility with voice recognition systems for effective voice role separation
- High-fidelity sound quality is achieved through lossless audio transmission technology, featuring a 48K audio sampling rate and a frequency response range of 20Hz to 20KHz
- A single conference processor can independently control and merge four conference rooms. It also supports cascading multiple conference processors to facilitate the merging and separation of larger conference setups (optional)
- The "Hand-in-Hand-Loop-Network" connection ensures the system operates flawlessly, even when discussion units are changed or if any units malfunction
- The microphone unit features adjustable sensitivity and an independent 8-segment equalizer (EQ)
- The conference processor can output a 16-segment equalized EQ for sound field adjustments. It includes pressure limit functionality to identify noise gates activated by human voice, AGC (Automatic Gain Control) for volume management, AFC (Automatic Feedback Control) for feedback suppression, and auto-mix technology
- The sound output features a separate zones function, with each zone automatically adjusted based on the microphone's position and volume. This design allows for longer-distance pickup while minimizing the risk of feedback
- The system includes echo cancellation and supports remote two-way real-time communication with another conference processor or a third-party video conferencing terminal
- The system features USB recording, processor monitoring, and advanced noise cancellation technology to ensure clearer recordings
- The system includes date and time management features and supports countdown for speeches
- An optional DANTE output module is available for use with other DANTE equipment
- The system can drive 2 × 120W PoE speakers and, through an extension main unit, supports up to 16 PoE speakers

HIGHLIGHTS

Compact yet versatile design

The product design combines elegance with compactness and user-friendly functionality. The conference unit features a graphical user interface, complete with lighting reminders, allowing anyone to get started quickly. It is easy to install, simple to operate, and designed to facilitate more productive sessions

Excellent legibility sound

The conference processor can output a 16-segment equalized EQ for sound field adjustments. It includes a pressure limit feature that detects noise gates activated by human voice, as well as AGC (Automatic Gain Control) for volume management, AFC (Automatic Feedback Cancellation) for eliminating feedback, and auto-mix technology

High tech intelligence platform

The system features a timing function with overtime reminders, multi-platform synchronization for voting results, network control for meeting management, and smart conference reservations. It also supports worldwide firmware updates in real-time. The integration of IT technologies creates an intelligent conferencing platform

FUNCTIONS

- Compliance with IEC 60914, GBT 15381-94
- Connect with CFEXM full-digital extension main unit, it can expand to 5200 discussion units
- "Hand-in-Hand-Loop-Network" connection and the system assigned to each unit independently ID to avoid ID conflict
- Only wired discussion units can connect to the controller, fast and easily to adding delegate of meetings
- 2 channel audio input, XLR or RCA type, for local audio input or remote video-conferencing input
- Maximum 8-channel audio output, XLR, RCA or Phoenix type, can be connected to simultaneous interpretation output or partitioned output
- Add the audio input box, the system can be connected to other condenser microphones or dynamic microphones, more choices for users
- Built-in multi-way internal communication function
- TCP/IP connection between processor and PC
- RS232 central control, realize microphone switch, priority, volume, and other controls
- RS232 or RS485 to send the PELCO/VISCA protocol to realize camera auto-tracking function
- Hot plug-and-play, and auto-recovery function

Without using PC software, our conference processor still provides following settings:

- Limit on the number of speaking persons: By Setting the number of active units at the same time
- (Number is 1/2/4/6/ units), supports up to open 32 wired microphones in full-on mode
- Discussion modes: "OPEN" Free for all, limited by the active units setting by processor，"VOICE" Can activate MIC by detecting sound without press button, "OVERRIDE" First in First out, "APPLY" To apply then to speak, "PTT" Press to speak (Optional),"ALL" Full open mode (Optional)
- Voting function: Approve/Abstain/Object
- Chairman unit has priority to close all other units or mute them temporarily
- Chairman unit can consent the application for speaking from delegate
- Simultaneous language interpretation
- With PC software to add more ways of voting:
    - ✓ Approve/Object
    - ✓ Approve/Abstain/Object
    - ✓ Level：1/2/3/4/5
    - ✓ Ranking：--/-/0/+/++
- By using RFID card to identify, can realize voting with names.

INTERFACES

- Front panel USB recording interface
- 1 × 3.5mm headphone for monitoring
- 1 × RCA audio input
- 1 × XLR audio input
- 1 × RCA audio output
- 1 × XLR audio output
- 6 × Phoenix audio output connector
- 2 × RJ45 digital audio connection
- 2 × RJ45 for chairman unit, delegate unit, unit translators and other connection
- 1 × RJ45 for wireless access point or router
- 1 × DP9 male interface for external control
- 1 × DP9 female interface for camera
- 1 × Three-pin phoenix interface for camera control keyboard
- 1 × RJ45 for computer connection or network switcher
- 1 × Grounding screw
- 1 × 100 ~ 240V AC power interface

CONTROL & INDICATORS

- LCD display to show all the operations and results
- 4-Way button for menu operate
- USB interface for audio recording
- One-button press to start recording
- Light indicator
- Master volume control knob

www.singeasy.com

SPECIFICATIONS

Communication Protocol	Ethernet
Mounting	19" standard rack
Frequency Response	20 Hz to 20 KHz
Noise Ratio (S/N)	> 96 dBA
Total Harmonic Distortion	< 0.05%
Channel Crosstalk	> 85 dB
Dynamic Range	> 94 dB
RS232 Control	1×9 pole Sub D female socket 1×9 pole Sub D male socket
Ethernet Control	Yes
Line In Level	+10 dBu
Line Out Level	+12 dBu BAL
Output Impedance	> 1 KΩ
Network Interface	RJ45
Camera Control Method	RS-232, UDP
Camera Tracking Protocol	PELCO-P, PELCO D, VISCA
Power Consumption	Average (12W) Maximum (150W)
Operating Voltage	AC 100 V-240 V
Operating Temperature	0°C to 45°C
Storage Temperature	20°C to 50°C
Housing Color	Black
Dimensions (L×W×H)	483 x 260 x 43.6 mm
Weight	3 Kg

OPTIONAL INTERFACES

- DIO44 4x4 input/output Dante interface
- DIO88 8x8 input/output Dante interface
- DIO1616 16x16 input/output Dante interface

SYSTEM DIAGRAM

Sing Easy CFCAM
Full HD Cameras

Sing Easy CFCAMC
Auto-Tracking Camera Controller

Display

PC

Sing Easy CFWCU2
Wired Conference Touch Screen Chairman/Delegate Unit

Sing Easy CFWP
Digital Wired Conference Processor

Sing Easy CFINT64
64-Channels Interpreter Desk

Sing Easy CFEXM
Processor Extension Main Unit

Sing Easy CFPCS2/4/6/8/12
PoE Powered Column Speaker

CAT5e network cable
HDMI cable
RS232
SDI cable

SING EASY CFWCU2
WIRED CONFERENCE UNIT

Designated speech mode
A new meeting experience
In addition to 6 voice modes, a special voice mode has been added to the system. The microphone can be switched on by the chairperson or the management controller without having to switch it on manually.

Capacitive touchscreen
Never miss important agenda
Equipped with a 4.3-inch capacitive touch screen, it can be set to display important matters with the progress of the topic agenda. Various information can be shown through the standard quasi-physical clock, the capacitive touch screen is more convenient for users to operate.

Built-in loudspeaker
Powerful three-frequency sound field
Built-in, high-quality, balanced full-range loudspeakers can replace the PA system for small conferences and serve as a backup for medium and large conferences to avoid sudden sound system failures and ensure the normal course of the conference.

FEATURES

- Capacitive 4.3-inch touch screen
- Fully digital signal transmission and processing
- Wired communication: 100M wired network communication
- High-fidelity sound quality, lossless audio transmission technology, 48K audio sampling frequency, 20Hz~20KHz frequency response
- Conference controller can output 16 segment equalized EQ to achieve sound field adjustment; pressure limit, which can detect the noise gate pass through the human voice; AGC automatic volume control; AFC automatic feedback cancelation and auto-mix technology
- Easy function expansion through software modules

SCREEN SNAPSHOTS
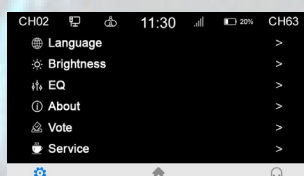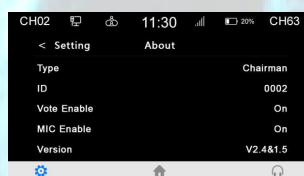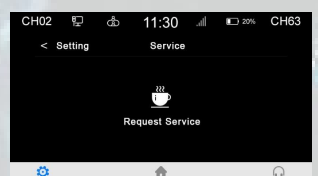
Clock	Settings Menu	About	Request Services

CONTROL AND INDICATORS

- Microphone with two-color LED ring, red indicates speaking status, green indicates request to speak
- 4.3-inch capacitive touch display
- Indicator for Volume adjustment
- Indicator for MIC ON/OFF
- Chairman unit with priority button and consent button for the delegates

HIGHLIGHTS

- As a VIP delegate unit, the system can set up to 32 VIP delegate units. As long as the total number of microphones already switched on in the system does not exceed 8, the VIP delegate unit can be switched on freely
- The touchscreen software of the conference unit contains five optional function modules:
  - ✓ Voting: Voting with two buttons, three buttons or five buttons
  - ✓ NFC identifier: Login via NFC card for precise identification of user data
  - ✓ Dual simultaneous interpretation channel: Support 2 language channel selectors, each selector supports 64 independent languages
  - ✓ Dual users: Two delegates share one device to achieve camera tracking in two locations; allowing two delegates to speak, log in and vote on one device
- Each microphone can adjust the sensitivity independently via the touchscreen and supports a setting of -12 dB to +12 dB, the 8-band EQ equalizer can be adjusted independently
- Dual headphone interface design, the volume can be adjusted via the touch screen and rotary knob, dual headphones support both sides of the output of different interpretation channels of voice
- Built-in 2W@8Ω high-fidelity speaker, when speaking in the device, it will automatically mute to prevent feedback
- Hot plug-and-play of the conference unit, automatic recovery
- Support firmware upgrade via wired network and support logo and function customization
- Speaker limit function: can set the number of delegate microphone units switched on at the same time
- Has the following speech modes:
  - ✓ OPEN" open mode
  - ✓ VOICE" voice control mode
  - ✓ OVERRIDE" mode "First in First out"
  - ✓ APPLY" application mode
  - ✓ PTT" press and hold to speak (optional)
  - ✓ ALL" full opening mode (optional)
- Combined with a camera and a camera tracking controller to achieve an automatic camera tracking function

INTERFACES

- Pluggable gooseneck microphone terminal
- 2 ×3.5mm stereo headphone jack
- 1 ×3.5mm stereo input jack
- 2 ×RJ45 connectors

SPECIFICATIONS

Wired Communication	RJ45 100M
Frequency Response	20 Hz to 20 KHz
Noise ratio (S/N)	> 96 dB
Total harmonic distortion	< 0.1%
Dynamic range	> 90 dB
Screen Size	109.22 mm (4.3 inches), Resolution: 800x480
Screen Type	Capacitive and color multi-touch
Contactless NFC Card Reader	ISO / IEC14443 Type A
Microphone Input	80 dB SPL
Microphone Input Sound Pressure	125dB (THD <3%)
Sensitivity	-46 dBV / Pa
Speaker Output	2W@8Ω
Headphone Terminal	3.5mm stereo Input impedance: 2kΩ
Headphone Load	16Ω Headphone volume: 10mW
Power Supply	48V DC
Power Consumption	3.4 W
Housing Color	Black
Material	ABS
Operating Temperature	5°C to 55°C
Relative Humidity	< 90%
Dimensions (L×W×H)	217.5 x 138.5 x 69 mm
Weight (without microphone)	1 Kg

SYSTEM DIAGRAM

Sing Easy CFCAM
Full HD Cameras

Sing Easy CFCAMC
Auto-Tracking Camera Controller

Display

PC

Sing Easy CFWCU2
Wired Conference Touch Screen Chairman/Delegate Unit

Sing Easy CFWP
Digital Wired Conference Processor

Sing Easy CFINT64
64-Channels Interpreter Desk

Sing Easy CFEXM
Processor Extension Main Unit

Sing Easy CFPCS2/4/6/8/12
PoE Powered Column Speaker

▬	CAT5e network cable
▬	HDMI cable
▬	RS232
▬	SDI cable

BASIC MODULES

SETUP MODULE

ORDERING CODE: CFSETUP

The basic module of the software consists of a series of functions, e.g. venue design, conference management, main device configuration, contribution device configuration, information display, system identification, system report, display user management.

Custom logo on screen

MICROPHONE CONTROL MODULE

ORDERING CODE: CFMIC

Sub-modules for seating arrangements, delegate management and microphone control (uploading the logo to the conference units and displaying the battery and signal level on the conference units).

VOTING MODULE
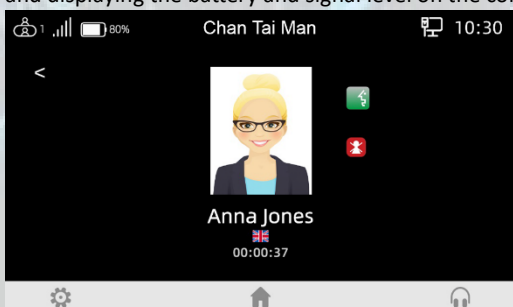
ORDERING CODE: CFVOTE

Voting management, seating arrangements and delegate management sub-modules
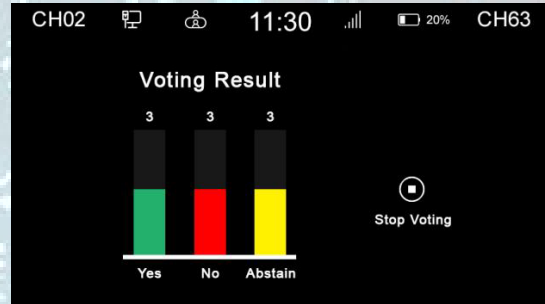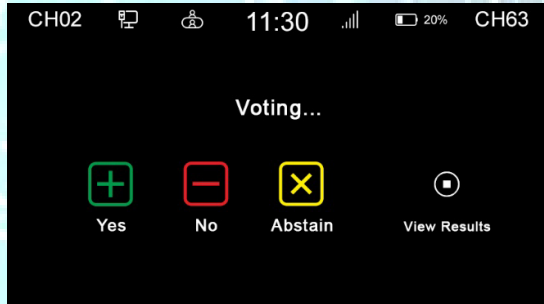
The results of the election, evaluation, voting and registration are displayed in real time, and the data is presented in bar charts, which is more intuitive and reliable. The chairperson can start and stop the voting, and the voting authorization of the units can be customized. In the management software of the conference system, you can activate voting and registration (registration by NFC card can be set).

Simple setup of votes, elections or evaluations in the administration console.

The system provides the function of a call service as well as customized one-key call services such as paper, pen and tea. The upper computer software can receive the call information and provide convenient and fast service for the conference.

NFC IDENTIFICATION MODULE

ORDERING CODE: CFNFC

NFC card registration, delegate information, participants and delegate authorizations

Sign-in by NFC card allows accurate identification of user image, name, position, etc.
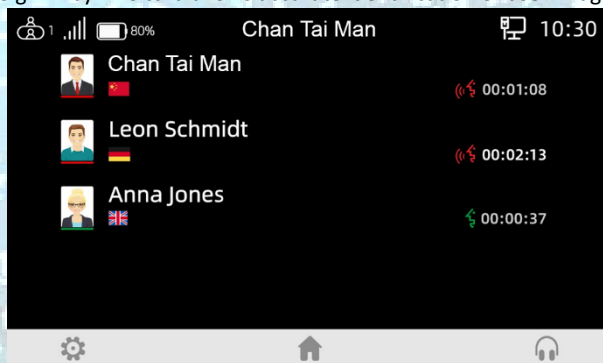
Speakers list with speaking time
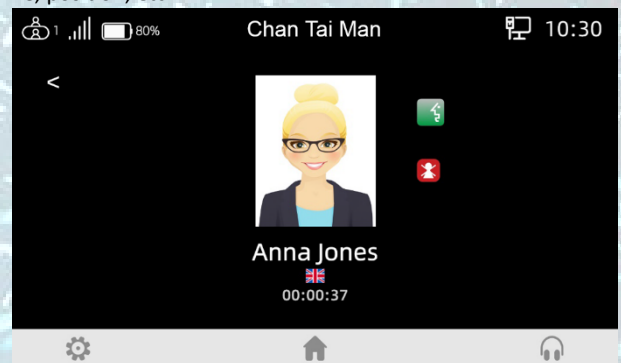
Preloaded user profile photos can be shown on screen

DUAL 64 CHANNEL INTERPRETATION SELECTOR MODULE
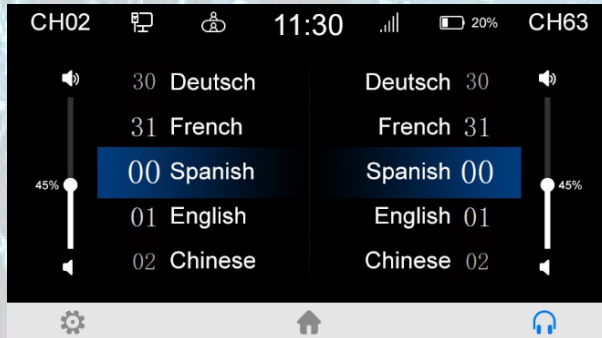
ORDERING CODE: CFINT

The conference unit can select two interpreting channels for two users simultaneously. There is a 3.5 mm headphone jack on each side of the device so that you can listen to the interpretation of two channels in the interface.

As shown in the figure, the two channels CH02 and CH63 are located on the left and right sides of the interface. You can click on any channel to open the channel selection interface, select the language channel corresponding to the desired interpretation by sliding up or down, and slide the desired language channel to the center of the double horizontal line.

DUAL USER MODULE

ORDERING CODE: CFDUAL

Available soon

SING EASY CFGM

GOOSENECK MICROPHONE

The Sing Easy CFGM is a gooseneck microphone to be used with Sing Easy conference chairman or delegate units.

FEATURES

- Precise directional microphone head with mini design
- Two-color LED indicator on microphone, red for speaking, green means need acceptance from chairman to speak
- Anti-wind microphone foam cover
- Screw lock gooseneck microphone socket

SPECIFICATIONS

Microphone Type	Condenser
Directivity	Unidirectional (Cardioid)
Sensitivity	-46 dBV/Pa
Frequency Response	30Hz~20KHz
SPL	20 dBA
Signal-To-Noise Ratio	≥96 dB
Maximum SPL **(1 kHz at 1% THD, 1 kΩ load)**	125dB (THD<3%)
Input impedance	2 kΩ
Microphone Terminal	Mini 6 pin
Housing Color	Black
Operating Temperature	0°C to 45°C
Storage Temperature	-20°C to 50°C
Weight	80 g

AVAILABLE LENGHTS

- CFGM220 – 220 mm
- CFGM330 – 330 mm
- CFGM410 – 410 mm
- CFGM485 – 485 mm
- CFGM600 – 600 mm

SING EASY CFBTY2

RECHARGEABLE BATTERY PACK

The Sing Easy CFBTY2 and CFBTY2H are rechargeable battery packs to be used with Sing Easy conference chairman or delegate units.

FEATURES

- Highly efficient, compact, and light weight
- Super-long battery life
- Lithium-ion Cells with No 'Memory Effect'
- Lithium-Ion rechargeable battery lasts over 20 hours, recharges in under 3 hours
- The built-in Microprocessor communicates with conference system, and accurately indicates remaining battery time in minutes.
- Environmentally friendly: 100% free of lead, cadmium, and mercury

SPECIFICATIONS

Output Voltage	DC 7.4 V
Battery Capacity	CFBTY2 5000 mA, CFBTY2H 6500mA
Maximum Charge Voltage	DC 8.4 V
Housing Color	Black
Operating Temperature	-20°C to 60°C
Weight	285 g

SING EASY CFBC82

CONFERENCE BATTERY PACK CHARGER

The Sing Easy CFBC82 is a 10-slot battery pack charger to be used with Sing Easy CFBTY2 and CFBTY2H battery packs.

FEATURES

- 10-slot battery charger
- Charges 10 CFBTY2 or CFBTY2H batteries to full capacity within 3 hours
- Five-level, two-color status indicator shows charging status
- Four layers of protection (over-charging, short-circuit, high-temperature, and surge protection)
- Battery self-locking for quick and secure battery installation

SPECIFICATIONS

Number of Charging Slots	10
Terminal Connector	spring-loaded terminals
Output	8.4V, 750mA
Charging Time	3 hours
Housing Color	Black
Operating Voltage	AC 110 V to 240 V
Power Consumption	Standby 5 W / Max. 150 W
Dimensions (L × W × H)	530 x 200 x 65 mm

SING EASY CFSB

CONFERENCE SPLITTER BOX

The Sing Easy CFSB is a splitter box to be used with Sing Easy CFC digital conference controller.

FEATURES

- No noise design
- Compact size
- Splitting two CU/DU channels

SPECIFICATIONS

Interfaces	2 × RJ45 loop ports and 2 × RJ45 for repeated chains ports
Housing Color	Black
Dimensions (L × W × H)	80 x 50 x 23 mm
Weight	100 g

SING EASY CFCU2TFC

TROLLEY FLIGHT CASE

The Sing Easy CFCU2TFC is a trolley flight case specially designed to store 10 sets of CFCU2 conference units and CFGM gooseneck microphones.

This trolley flight case comes with robust wheels making it ideal to wheel around at ease.

FEATURES

- Stores 10 pcs CFCU2 conference units and 10 pcs CFGM gooseneck microphones
- Sprung Grab Handle
- Sturdy Wheels and Rubber Feet
- Quick Catch Mechanism with Padlock Loops
- Reinforced metal corners
- Soft foam lining

SPECIFICATIONS

Material	Aluminium alloy frame
Dimensions (L × W × H)	400 x 350 x 620 mm
Weight	17 Kg

SING EASY GMTT

WIRED GOOSENECK MICROPHONE

The Sing Easy GMTT is a table-top gooseneck microphone that includes the key components needed to provide high quality, reliable performance for a wide range of applications. It features a high-performance cardioid condenser microphone capsule that mounts to the high-performance zinc alloy gooseneck base, which is also included in the set. The GMTT offers a wide cardioid polar pattern and is designed for inexperienced speakers and applications where more than one person uses the microphone in turn. The GMTT gooseneck module works in fixed or mobile installations, and it is powered by XLR phantom power adapter and comes with a mute button and a red LED ring status display.

FEATURES

- Cardioid polar pattern with tailored response for speech maximizes intelligibility in speech while reducing the chance for feedback
- Interchangeable Mic Capsule Design
- Phantom powered
- Snap-fit foam windscreen
- Mute Switch

SPECIFICATIONS

Type	Gooseneck Microphone
Polar Pattern	Cardioid
Frequency Response	40Hz to 16KHz
Electrical Impedance	600 Ohms
Audio Output	Balanced XLR (3-pin Male)

The specifications are subject to be changed without notice.

SING EASY WMR88OH

OCTA CHANNEL WIRELESS HANDHELD MICROPHONE

The Sing Easy WMR88O is an octa channel digital wireless receiver offering eight channels of uncompromising audio quality, RF signal stability and efficiency, and advanced setup features in a single rack unit, and it bundles with eight WMM30 handheld wireless microphones. Rugged, lightweight and compact, the all-metal chassis houses eight independent receivers, each with its own audio and RF meters, gain control, and receiver outputs that can be either direct or summed for flexible signal routing.

FEATURES

- True diversity technology for best reception quality
- UHF band to avert interfering frequency
- Eight receivers in a rugged 1RU metal chassis
- Intuitive front-panel TFT menu and controls
- Audio and RF LED meters with peak indicator
- Optimized to simultaneously operate significantly more channels in applications up to 50 meters
- Optimized scanning automatically finds, prioritizes, and deploys the cleanest frequencies to transmitters over IR sync
- Individual gain controls, LED meters, XLR audio output for each channel and both XLR and 6.3mm mixed audio output
- Advanced digital pilot technology distributed 75 frequencies in each group which ensures 600 preset frequencies
- TFT color display on receiver and transmitter, both can display the audio level, battery voltage and menu settings

SPECIFICATIONS (WMR98O RECEIVER)

Frequency Range 610 – 690 MHz *[1]	**Operating Range** 50 meters line of sight *[2]	**Audio Frequency Response** 40 Hz to 20 KHz ±3 dB
System Latency < 3 ms	**Audio Output Connector** XLR and 1/4" (6.3 mm) unbalanced	**External Antenna Connector** 2 BNC (50 Ω)
Operating Temperature Range -20°C (0°F) – +50°C (122°F)	**Operating Relative Humidity** 5 - 95 % (non-condensing)	**Material** Aluminium alloy
Power Requirements 12 V DC at 2 A (supplied by external power supply)	**Dimensions (W x D x H)** 420 × 220 × 44mm	**Weight** 2.8 Kg (without power supply)

SPECIFICATIONS (WMM30 HANDHELD TRANSMITTER)

Transmitter Power 10 mW, typical (varies by region)	**Sound pressure level (SPL)** 110 dB	**Pick-Up Pattern** Hyper cardioid
Signal-to-Noise Ratio >90dB	**Dynamic Range** 115 dB A-weighted	**Sensitivity** -42 dB ±2 dB
Material Aluminum alloy	**Power Requirements** 3V (2 x 1.5V AA battery)	**Dimensions (Ø x L)** 51 × 255 mm
Weight 290 g (without battery)	**Battery Life** Up to 5 hours	

*[1] Other frequencies available depending on applicable regulations in country where system used.

*[2] Actual range depends on RF signal absorption, reflection, and interference.
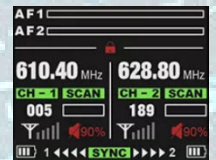
SING EASY WMR98QH

QUAD CHANNEL WIRELESS HANDHELD MICROPHONE

The Sing Easy WMR98Q is an quad channel digital wireless receiver offering four channels of uncompromising audio quality, RF signal stability and efficiency, and advanced setup features in a single rack unit, and it bundles with four WMM30 handheld wireless microphones. Rugged, lightweight and compact, the all-metal chassis houses four independent receivers, each with its own audio and RF meters, gain control, and receiver outputs that can be either direct or summed for flexible signal routing.

FEATURES

- True diversity technology for best reception quality
- UHF band to avert interfering frequency
- Four receivers in a rugged 1RU metal chassis
- Intuitive front-panel TFT menu and controls
- Audio and RF LED meters with peak indicator
- Optimized to simultaneously operate significantly more channels in applications up to 50 meters
- Optimized scanning automatically finds, prioritizes, and deploys the cleanest frequencies to transmitters over IR sync
- Individual gain controls, LED meters, XLR audio output for each channel and both XLR and 6.3mm mixed audio output
- Advanced digital pilot technology distributed 75 frequencies in each group which ensures 600 preset frequencies
- TFT color display on receiver and transmitter, both can display the audio level, battery voltage and menu settings

SPECIFICATIONS (WMR98O RECEIVER)

Frequency Range 610 – 690 MHz [1]	**Operating Range** 50 meters line of sight [2]	**Audio Frequency Response** 40 Hz to 20 KHz ±3 dB
System Latency < 3 ms	**Audio Output Connector** XLR and 1/4" (6.3 mm) unbalanced	**External Antenna Connector** 2 BNC (50 Ω)
Operating Temperature Range -20°C (0°F) – +50°C (122°F)	**Operating Relative Humidity** 5 - 95 % (non-condensing)	**Material** Aluminum alloy
Power Requirements 12 V DC at 2 A (supplied by external power supply)	**Dimensions (W x D x H)** 420 × 220 × 44mm	**Weight** 2.8 Kg (without power supply)

SPECIFICATIONS (WMM30 HANDHELD TRANSMITTER)

Transmitter Power 10 mW, typical (varies by region)	**Sound pressure level (SPL)** 110 dB	**Pick-Up Pattern** Hypercardioid
Signal-to-Noise Ratio >90dB	**Dynamic Range** 115 dB A-weighted	**Sensitivity** -42 dB ±2 dB
Material Aluminum alloy	**Power Requirements** 3V (2 x 1.5V AA battery)	**Dimensions (Ø x L)** 51 × 255 mm
Weight 290 g (without battery)	**Battery Life** Up to 5 hours	

[1] Other frequencies available depending on applicable regulations in country where system used.

[2] Actual range depends on RF signal absorption, reflection, and interference.

SING EASY WMR89B

DUAL CHANNEL BELTPACK WIRELESS MICROPHONE

The Sing Easy WMR89B is a dual channel digital wireless receiver which offers two channels of uncompromising audio quality, RF signal stability and efficiency, and advanced setup features in a single rack unit, and it bundles with two WBT8 beltpack transmitters. Rugged, yet lightweight and compact, the all-metal chassis houses two independent receivers, each with its own audio and RF meters, gain control, and receiver outputs that can be either direct or summed for flexible signal routing.

FEATURES

- True diversity technology for best reception quality
- Two receivers in a rugged 1RU metal chassis
- Intuitive front-panel TFT menu and controls
- Audio and RF LED meters with peak indicator
- Optimized to simultaneously operate significantly more channels in applications up to 80 meters
- RF cascade ports allow distribution of RF signal to another unit
- Individual gain controls, LED meters, XLR and 6.3mm audio outputs for each channel
- UHF band to avert interfering frequency
- Advanced digital pilot technology allowing 30 preset group frequencies with 8 frequencies in each group which ensures 200 sets in the same premises without interference
- PLL system with 240 non-interfered preset channels and 600 free adjustable frequencies
- TFT color display on receiver and OLED display screen on transmitter, both can display the audio level, battery voltage and menu settings
- Built-in 9 V bias for optional antenna distribution system
- 0.5 seconds fall-down auto mute

SPECIFICATIONS (WMR89 RECEIVER)

Frequency Range 630 – 660 MHz [1]	**Operating Range** 80 meters line of sight [2]	**Audio Frequency Response** 30 Hz to 20 KHz ±3 dB
System Latency < 3 ms	**Audio Output Connector** XLR and 1/4" (6.3 mm) unbalanced	**External Antenna Connector** 4 BNC (50 Ω)
Operating Temperature Range -20°C (0°F) – +50°C (122°F)	**Operating Relative Humidity** 5 - 95 % (non-condensing)	**Material** Aluminum alloy
Power Requirements 12 V DC at 2 A (supplied by external power supply)	**Dimensions (W x D x H)** 420 × 215 × 44mm	**Weight** 2.8 Kg (without power supply)

SPECIFICATIONS (WBT8 BELTPACK TRANSMITTER)

Transmitter Power 10 mW, typical (varies by region)	**Sound pressure level (SPL)** 110 dB	**Pick-Up Pattern** Hypercardioid
Signal-to-Noise Ratio >90dB	**Dynamic Range** 115 dB A-weighted	**Sensitivity** -95 dB ±2 dB
Material PVC	**Power Requirements** 3V (2 x 1.5V AA battery)	**Dimensions (W x L x D)** 51 × 255 mm
Weight 310 g (without battery)	**Battery Life** Up to 5 hours	

[1] Other frequencies available depending on applicable regulations in country where system used.

[2] Actual range depends on RF signal absorption, reflection, and interference.

WBT8 + WMH8(HS)
Headband (Skin Color)

WBT8 + WMH8(HB)
Headband (Black Color)

WBT8 + WMH8(TS)
Tie Clip (Skin Color)

WBT8 + WMH8(TB)
Tie Clip (Black Color)

SING EASY WMR89

TRUE DIVERSITY UHF WIRELESS MICROPHONE

The Sing Easy WMR89 is a dual channel digital wireless receiver which offers two channels of uncompromising audio quality, RF signal stability and efficiency, and advanced setup features in a single rack unit, and it bundles with two WMM32 handheld wireless microphones. Rugged, yet lightweight and compact, the all-metal chassis houses two independent receivers, each with its own audio and RF meters, gain control, and receiver outputs that can be either direct or summed for flexible signal routing.

FEATURES

- True diversity technology for best reception quality
- Two receivers in a rugged 1RU metal chassis
- Intuitive front-panel TFT menu and controls
- Audio and RF LED meters with peak indicator
- Optimized to simultaneously operate significantly more channels in applications up to 80 meters
- RF cascade ports allow distribution of RF signal to another unit
- Individual gain controls, LED meters, XLR and 6.3mm audio outputs for each channel
- UHF band to avert interfering frequency
- Advanced digital pilot technology allowing 30 preset group frequencies with 8 frequencies in each group which ensures 200 sets in the same premises without interference
- PLL system with 240 non-interfered preset channels and 600 free adjustable frequencies
- TFT color display on receiver and OLED display screen on transmitter, both can display the audio level, battery voltage and menu settings
- Built-in 9 V bias for optional antenna distribution system
- 0.5 seconds fall-down auto mute

SPECIFICATIONS (WMR89 RECEIVER)

Frequency Range 630 – 660 MHz *[1]	**Operating Range** 80 meters line of sight *[2]	**Audio Frequency Response** 30 Hz to 20 KHz ±3 dB
System Latency < 3 ms	**Audio Output Connector** XLR and 1/4" (6.3 mm) unbalanced	**External Antenna Connector** 4 BNC (50 Ω)
Operating Temperature Range -20°C (0°F) – +50°C (122°F)	**Operating Relative Humidity** 5 - 95 % (non-condensing)	**Material** Aluminum alloy
Power Requirements 12 V DC at 2 A (supplied by external power supply)	**Dimensions (W x D x H)** 420 × 215 × 44mm	**Weight** 2.8 Kg (without power supply)

SPECIFICATIONS (WMM32 HANDHELD TRANSMITTER)

Transmitter Power 10 mW, typical (varies by region)	**Sound pressure level (SPL)** 110 dB	**Pick-Up Pattern** Hypercardioid
Signal-to-Noise Ratio >90dB	**Dynamic Range** 115 dB A-weighted	**Sensitivity** -95 dB ±2 dB
Material Aluminum alloy	**Power Requirements** 3V (2 x 1.5V AA battery)	**Dimensions (Ø x L)** 51 × 255 mm
Weight 310 g (without battery)	**Battery Life** Up to 5 hours	

*[1] Other frequencies available depending on applicable regulations in country where system used.

*[2] Actual range depends on RF signal absorption, reflection, and interference.

SING EASY WMR78
DIGITAL UHF WIRELESS MICROPHONE

The Sing Easy WMR78 dual channel digital UHF wireless receiver offers two channels of uncompromising audio quality, RF signal stability and efficiency, and advanced setup features in a single rack unit, and it bundles with two WMM30 handheld wireless microphones. Rugged, lightweight and compact, the all-metal chassis houses two independent receivers and two TFT displays, each with its own audio and RF meters, gain control, and receiver outputs that can be either direct or summed for flexible signal routing.

FEATURES

- Digital 16-bit ID pilot technology to avoid crosstalk interference
- True diversity UHF wireless microphone
- Two receivers in a rugged 1RU metal chassis
- Intuitive front-panel TFT menu and controls
- Auto frequency scanning
- Audio and RF LED meters with peak indicator
- 0.5 seconds fall-down auto mute and laid-down auto mute
- Built-in Echo (Ratio, Delay and Echo volume parameters available)
- Built-in Equalizer
- TFT color display on receiver and LCD display screen on transmitter, both can display the audio level, battery voltage and menu settings
- Optimized scanning automatically finds, prioritizes, and deploys the cleanest frequencies to transmitters over IR sync
- Individual gain controls, LED meters, individual balanced XLR and mixed 6.3mm audio outputs
- 80 meters operating range (line of sight)

SPECIFICATIONS (WMR78 RECEIVER)

Frequency Range 630 – 660 MHz *1	**Operating Range** 80 meters line of sight *2	**Audio Frequency Response** 30 Hz to 20 KHz ±3 dB
System Latency < 3 ms	**Audio Output Connector** XLR and 1/4" (6.3 mm) unbalanced	**External Antenna Connector** 2 BNC (50 Ω)
Operating Temperature Range -20°C (0°F) – +50°C (122°F)	**Operating Relative Humidity** 5 - 95 % (non-condensing)	**Material** Aluminum alloy
Power Requirements 12 V DC at 1 A (supplied by external power supply)	**Dimensions (W x D x H)** 420 × 215 × 44mm	**Weight** 2.8 Kg (without power supply)

SPECIFICATIONS (WMM30 HANDHELD TRANSMITTER)

Transmitter Power 10 mW, typical (varies by region)	**Sound pressure level (SPL)** 110 dB	**Pick-Up Pattern** Hypercardioid
Signal-to-Noise Ratio >90dB	**Dynamic Range** 115 dB A-weighted	**Sensitivity** -42 dB ±2 dB
Material Aluminum alloy	**Power Requirements** 3V (2 x 1.5V AA battery)	**Dimensions (Ø x L)** 51 × 255 mm
Weight 290 g (without battery)	**Battery Life** Up to 5 hours	

*1 Other frequencies available depending on applicable regulations in country where system used.

*2 Actual range depends on RF signal absorption, reflection, and interference.

www.singeasy.com

SING EASY WMR68

RECHARGEABLE DIGITAL UHF WIRELESS MICROPHONE

The Sing Easy WMR68 dual channel digital UHF wireless receiver offers two channels of uncompromising audio quality, RF signal stability and efficiency, and advanced setup features in a half single rack unit, and it bundles with two WMM21 rechargeable handheld wireless microphones. Rugged, lightweight and compact, the all-metal chassis houses two independent receivers and two TFT displays, each with its own audio and RF meters, gain control, and receiver outputs that can be either direct or summed for flexible signal routing.

FEATURES

- Digital 16-bit ID pilot technology to avoid crosstalk interference
- Digital UHF wireless microphone
- Two receivers in a rugged half 1RU metal chassis
- Intuitive front-panel TFT menu and controls
- Auto frequency scanning shows nearby interference in the spectrum
- Audio and RF LED meters with peak indicator
- Ultra-short audio latency (<3ms)
- Manual mute on wireless microphone
- USB charging
- TFT color display on receiver and LCD display screen on transmitter, both can display the audio level, battery voltage and menu settings
- Optimized scanning automatically finds, prioritizes, and deploys the cleanest frequencies to transmitters over IR sync
- Individual gain controls, LED meters, individual balanced XLR and mixed 6.3mm audio outputs
- 80 meters operating range (line of sight)

SPECIFICATIONS (WMR68 RECEIVER)

Frequency Range	**Operating Range**	**Audio Frequency Response**
630 – 660 MHz *¹	80 meters line of sight *²	40 Hz to 20 KHz ±3 dB
System Latency	**Audio Output Connector**	**External Antenna Connector**
< 3 ms	XLR and 1/4" (6.3 mm) unbalanced	2 BNC (50 Ω)
Operating Temperature Range	**Operating Relative Humidity**	**Material**
-20°C (0°F) – +50°C (122°F)	5 - 95 % (non-condensing)	Aluminium alloy
Power Requirements	**Dimensions (W x D x H)**	**Weight**
12 V DC at 1 A (supplied by external power supply)	210 × 190 × 44 mm	930 g (without power supply)

SPECIFICATIONS (WMM21 HANDHELD TRANSMITTER)

Transmitter Power	**Sound pressure level (SPL)**	**Pick-Up Pattern**
10 mW, typical (varies by region)	120 dB	Hypercardioid
Signal-to-Noise Ratio	**Dynamic Range**	**Sensitivity**
>90dB	115 dB A-weighted	-42 dB ±2 dB
Material	**Power Requirements**	**Dimensions (Ø x L)**
Aluminium alloy	1 x 3.7V 18500 lithium battery	48 × 240 mm
Weight	**Battery Life**	
250 g (with 2040mAh 18500 battery)	2040mAh 3.5 hours charge, 12 hours usage	

*¹ Other frequencies available depending on applicable regulations in country where system used.

*² Actual range depends on RF signal absorption, reflection and interference.

SING EASY WADS
ANTENNA DISTRIBUITION SYSTEM

The Sing Easy WADS is an active directional system that allows for the expansion of wireless microphone systems by splitting one pair of antennas to multiple receivers. It also amplifies RF signals to compensate for insertion loss that results from splitting signal power to multiple outputs. A single WADS system can support up to four wireless receivers. A maximum of four WADS systems may be used in a two-tiered configuration.

FEATURES

- Compatible with all Sing Easy wireless receivers and antenna distribution systems that provide 9 V DC bias
- Directs a cardioid pattern toward target
- Makes up for coaxial transmission loss
- Integrated threaded adapter that mounts easily to microphones stands
- 450 - 1000 MHz

SPECIFICATIONS

RF Frequency Range	Connector Type	Impedance
450 - 1000 MHz	BNC, Female	50 Ω

Power Requirements	Material	Color
9 V DC bias from coaxial connection, 75 mA	Metal	Black

Size	Weight	Operating Temperature Range
224 x 234 x 36 mm (H x W x D)	1.1 Kg	−18°C (0°F) to 63°C (145°F)

NOTES

The antenna **will not operate** without 9 V DC bias.
Use 50 ohm low-loss coaxial cable, such as RG-8U. Sing Easy offers pre-terminated antenna cables ranging from 0.1m to 50 meters, for more details, please check out WAEC series.

www.singeasy.com

SING EASY WADA

ACTIVE DIRECTIONAL ANTENNA

The Sing Easy WADA is an active directional antenna which uses a log periodic dipole array to offer enhanced reception when directed toward the desired coverage area, the WADA should be used when wireless receivers are installed inside a cabinet or room.

The WADA can be mounted on a microphone stand, suspended from the ceiling or mounted to a wall using the integrated swivel adapter bracket.

FEATURES

- Compatible with all wireless receivers and antenna distribution systems that provide 9 V DC bias
- Directs a cardioid pattern toward target
- Makes up for coaxial transmission loss
- Integrated threaded adapter that mounts easily to microphones stands
- RF Frequency Range at 400 - 1000 MHz

SPECIFICATIONS

RF Frequency Range	**Connector Type**	**Impedance**
400 - 1000 MHz	BNC, Female	50 Ω
Power Requirements	**Material**	**Color**
9 V DC bias from coaxial connection, 75 mA	Metal	Black
Size	**Weight**	**Operating Temperature Range**
224 x 234 x 36 mm (H x W x D)	317 g (11.2 oz.)	−18°C (0°F) to 63°C (145°F)

NOTES

The antenna **will not operate** without 9 V DC bias.

Bundled with 2 sets of 5 meters RG-8U 50 ohm low-loss coaxial cable. Sing Easy offers pre-terminated antenna cables ranging from 0.1m to 50 meters, for more details, please check out WAEC series.

SING EASY TNCEC

TNC MALE TO TNC MALE EXTENSION CABLE

The Sing Easy TNCEC is an extension cable with TNC plugs on both sides for use with conjunction with wireless microphone systems.

FEATURES

- RG58 Copper Cable
- 5mm Diameter Cable
- Nickel-Plated Copper Connectors
- Black Color
- PVC Jacking

AVAILABLE LENGHTS

- TNCEC1M   1 meter
- TNCEC2M   2 meter
- TNCEC3M   3 meter
- TNCEC5M   5 meter
- TNCEC10M   10 meter
- TNCEC15M   15 meter
- TNCEC20M   20 meter
- TNCEC30M   30 meter
- TNCEC40M   40 meter
- TNCEC50M   50 meter

SING EASY TNCEB

TNC MAGNETIC BASE WITH EXTENSION CABLE

The Sing Easy TNCEB is an extension cable with a magnetic base for use in conjunction with wireless microphone systems.

FEATURES

- 60mm Magnetic Base w/ TNC Female
- RG58 Copper Cable
- 5mm Diameter Cable
- Nickel-Plated Copper Connectors
- Black Color
- PVC Jacking

AVAILABLE LENGHTS

- TNCEB01M   0.1M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB05M   0.5M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB1M   1M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB2M   2M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB3M   3M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB5M   5M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB10M   10M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB15M   15M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB20M   20M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB25M   25M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB30M   30M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB40M   40M TNC Male Extension Cable to TNC Female Magnetic Base
- TNCEB50M   50M TNC Male Extension Cable to TNC Female Magnetic Base

The Sing Easy KP808 is a professional-grade digital processor designed for karaoke and other microphone-based applications and provides a full set of audio processing for enhancing or fine-tuning music and voice. KP808 is equipped with two 6.5mm connectors for microphone input, two groups of RCA connectors and an optical connector for music input, and one pair of RCA connectors for recording out. It supports storage and recall of up to 10 pre-sets and manual or auto control of Dance or Sing mode.

Karaoke singers require unique reverb and effects to help untrained singers sound as good as possible. The Sing Easy KP808 dedicated karaoke processor has all the effects needed and digital signal processing (DSP) to configure input microphones and program material as well as setup any type of speaker.
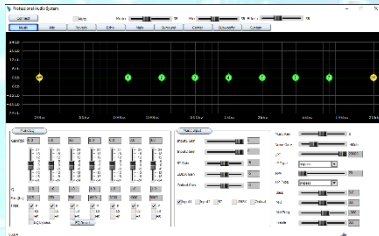
FEATURES

- High-performance 32-bit DSP and A/D and D/A Converter, 24 bit, 48kHz HD Audio professional digital processor
- Four levels of AFE (Automatic Feedback Elimination) technology
- TFT display for intuitive operation and settings information
- 10-band parametric equalizer for microphone inputs
- 7-band parametric equalizer for audio inputs
- Six output channels: Right, Left, Centre, Sub, Surround Right and Surround Left
- Dance/Sing mode for manual/automatic subwoofer management
- 10 custom presets
- Independent control of Echo and Revert
- Two separate microphone input channels
- Two pairs of RCA connectors and an Optical connector for Music Input
- USB port on the front panel for MP3 playback
- PC Control Software
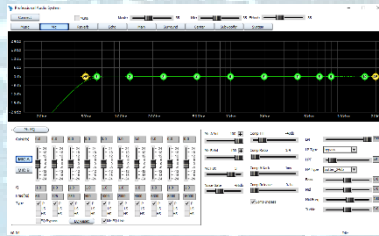- RS232 port for home automation or KTV system control

SPECIFICATIONS

|	
Processor	32 bit
Analog / Digital Signal Conversion	24 bit, 48 KHz
Frequency Response	Music: 20Hz to 20kHz (± 1 dB) Mic: 20Hz to 20kHz (± 1 dB)
Signal-to-Noise Ratio	Music: >100dB Mic: >95dB (while effects, EQ, delay, and compression are off and the microphone's volume is at its highest)
Audio Inputs	Line: IN1, IN2 and Optical
Line Input Impedance	24 K Ohm
Maximum Input Level	Music: +12.0dBV Mic: +15.0dBV
Audio Outputs	XLR 5.1 Channel Output + RCA REC Out
XLR Output Impedance	30 Ohm balanced, 15 Ohm unbalanced
RCA Output Impedance	100 Ohm
Maximum Output Level	Music: +14.5dBu Mic: +14.5dBu
Power Requirements	AC 220V ± 10% 50Hz
Net Weight	1.9Kg
Gross Weight	2.3Kg
Dimensions (W x H x D)	483 × 43 × 180 mm

Music Settings

Microphone Settings
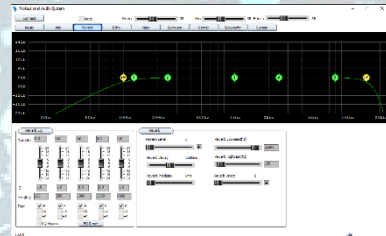
Reverb Settings
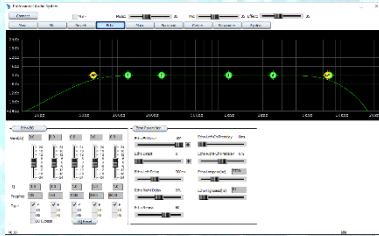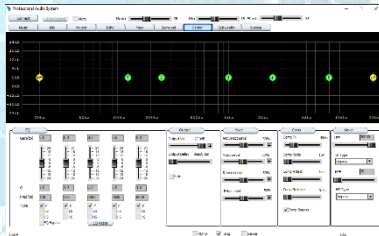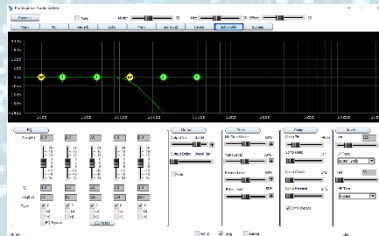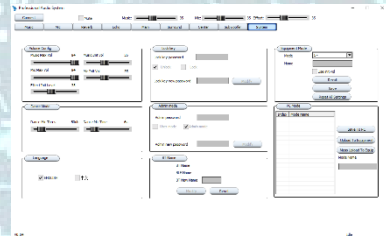

Echo Settings

Main Output Settings
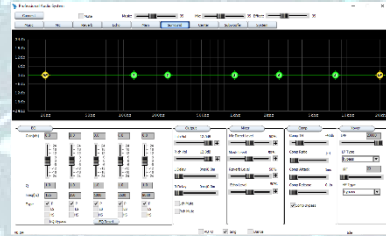
Surround Output Settings

Center Output Settings

Subwoofer Output Settings

System Settings

SING EASY DSP48T

DIGITAL SIGNAL PROCESSOR

This device is a high-performance digital audio processor. The sampling rate is up to 48KHz. 24 bit AD / DA analog-to-digital / analog conversion chip and high-speed processing DSP chip are being used to collect and process audio. It supports up to 4 analog inputs and 8 analog outputs. Each input and output channel supports up to 13 sections of parameter equalizer. In addition, it is equipped with powerful functions such as high/low pass filter, signal generator, noise gate, gain control, input compression, output limiting, scene setting, each algorithm preset setting and adjustable delay of up to 2000ms per channel. It is equipped with 100m dual network port and RS-232 to realize rapid configuration and debugging and support cascading between multiple devices. Carry out a series of optimization and adjustment for high-quality sound reinforcement system.

FEATURES

- 32-bit DSP chip processing, 48KHz sampling rate, 24bit AD / DA conversion
- The input processing part includes signal generator, noise gate, up to 16 segment equalization (including all-pass filter) and high-low filter, FIR filter
- The output processing part includes up to 11 segment equalization (including all-pass filter), FIR, high and low cut filter, gain control, mute, phase, 2000ms
- adjustable delay and other processing functions
- All inputs and outputs can be freely allocated in matrix, and the names of each input and output channel can be changed
- All input and output channels have independent phase curve adjustment function
- All input and output channels are equipped with high-pass and low-pass filters. The type of frequency dividers can be selected: Butterworth, Bessel and linkwich Rayleigh
- The voltage limit of all input channels has adjustable threshold, ratio, start-up time, recovery time and compensation gain
- All output channels have adjustable amplitude limiting threshold and recovery time
- All input and output channels delay up to 2000 ms
- Every channel parameter setting can be copied freely under the same algorithm and every channel can be adjusted in linkage;
- Built in signal generator, optional input mode, pink noise, white noise, sweep frequency and sine wave are adjustable, and the signal amplitude is adjustable
- The front panel is equipped with input and output level indicators and USB control ports. The rear panel is equipped with RS232 control ports, Ethernet port, reset key
- Up to 32 preset scenarios are supported. The whole machine's status and each preset can be stored and called separately. It also has password protection function to make the equipment more secure
- Application: Professional performance, Conference room, Court, Auditorium, Multi-function hall and other scenes

SPECIFICATIONS

Sampling Rate	48 KHz, 24 bit
Analog Input	4 XLR Balance; AES Input
Input Impedance	10KΩ Balance
Input Impedance	20KΩ Unbalanced
Analog Output	8 XLR Balance; AES Output
Output Impedance	50Ω Balance/100Ω Unbalanced
Frequency Response	20Hz – 20KHz
Default Output Level	0dBu
AD & DA Transfer	24 bit
Maximum Input Level	20dBu（Max）
Maximum Output Level	20dBu（Max）
THD+N	≤0.0025% @ 4dBu 20Hz-20KHz （Min）
System Delay	≤2000ms（Max）
Bottom Noise	≤-90dBu（Min）
Dynamic Range	≥110dBu（Min）
S/N Ratio	≥110dBu（Min）

SING EASY FB8000

FEEDBACK SUPRESSOR

Whether you're running live sound in a conference room, a venue, a lecture hall, or a church, there's nothing more embarrassing than a blast of feedback at an inopportune moment. To steer you clear of these inopportune moments, the Sing Easy FB8000 Feedback Suppressor is designed to instantly detect and automatically eliminate feedback in both spoken word and music environments.

FEATURES

- 24-bit A/D and D/A Converter, 48kHz HD Audio professional digital processor
- Dual balanced/unbalanced combo XLR and TRS inputs
- Ideal for both speech and music applications
- Built-in adaptive dynamic noise filter
- Built-in Echo Cancellation
- Built-in adaptive dynamic noise filter
- Built-in AGC automatic gain control
- Built-in digital high and low pass adjustment control
- Built-in digital compressor
- Built-in 10-segment graphic equalizer
- PC Control Software

SPECIFICATIONS

Analog / Digital Signal Conversion	24 bit, 48 KHz
Frequency Response	+/- 2dB straight-through frequency response 30Hz to 20kHz Feedback suppression frequency response 50Hz~18KHz
Sampling Frequency	48Khz
Audio Inputs	2-XLR and 2-TRS: balanced or unbalanced input mode
Line Input Impedance	22 K Ohm
Maximum Input Level	4.0V (VPP)
Audio Outputs	2-XLR and 2-TRS: balanced or unbalanced input mode
Line Output Impedance	300Ω
Dynamic range	> 100dB (A-weighted)
Distortion degree	< 0.5%
Noise floor	< 1mV
Power Consumption	< 20W
Power Requirements	AC 190-220V ± 10% 50Hz
Net Weight	2.7Kg
Gross Weight	3.3Kg
Dimensions (W x D x H)	480 × 220 × 44 mm

SING EASY MX2420U

24-CHANNEL MIXING CONSOLE

Beyond sounding great, the Sing Easy MX2420U mixer is one piece of gear you can truly rely on a rock-solid construction, while taking your sound quality to a new level. The MX2420U also boasts effects DSP with two internal FX sends, and even a 4 x 2, 24-bit USB audio interface for easy, high-quality recording. And with high-resolution meters, generous I/O, and sealed rotary controls that keep out dust and grime.

FEATURES

- Built-in 99 Digital Effects
- Premium-quality mixer with proven components
- Amazingly rugged analog mixer with 20 microphone preamplifiers
- Ultra-low-noise performance gives you clean, clear sound
- Four-bus design and intuitive routing make it easy to create submixes for easier, faster mixing
- Dual FX processors make it easy to add studio-quality effects to your show

Metal Chassis

Built to last, the MX2420U mixers feature a rugged, impact-resistant, powder-coated metal chassis, offering an unrivalled level of durability. With a sleek design contoured for optimal convection cooling, the internal layout separates the power supply from the analog circuitry for superior noise reduction, and further extends the life of the components inside. To further ensure reliable performance, knob control placement above the surface of the chassis diverts any impact or pressure on the knobs to the chassis itself and not the circuit board or components underneath.

A variety of input / output connectors

All models feature high-quality balanced XLR connectors on mono microphone/line channels and XLR equipped stereo channels. Each of the mono inputs is equipped with combo jack and accepts both MIC and LINE level signals. Two of the stereo inputs are equipped with XLR and two phone connectors with XLR accepting MIC level signals while two phone connectors accepting LINE level signals and can be used either mono or stereo. The function of another two stereo channel accepts MIC level signal and two RCA connectors accepts LINE level signals and can be used either mono or stereo. Two phone connectors accept LINE level signals as stereo. Additionally, each of the stereo channels features 2TR in (RCA connectors) and can be used as independent input from external audio sources such as CDs. Moreover, an additional stereo channel with a pair of phone jacks that accepts LINE levels. With MX2420U, any incoming source that is sent via USB can be assigned to one of the stereo channels. In addition to the main stereo outputs (XLR L/R, TRS phone L/R), MX2420U mixing console is equipped with a comprehensive suite of output connectors, including GROUP OUT (TRS phone), AUX/FX OUT (TRS phone), MONITOR OUT (TRS phone L/R), and HEADPHONE OUT (stereo phone) connectors, allowing master outputs to be chosen to suit specific applications such as monitoring or mastering.

1-knob Compressors

Compression plays an essential role in just about any recording or sound reinforcement environment by altering the level of dynamics of an audio signal when you need livelier guitars, punchier bass lines, a tighter snare, or a cleaner vocal sound. However, it can take countless hours to master the complexities of even the most basic outboard compression units and use them effectively.

EQ and High-pass Filters

There's nothing more useful than reliable equalization when you need nuanced management of your tone. The MX2420U features 3-band equalizers on all channels for precise control of your sound. High-pass filter allows you to eliminate unwanted low-frequency noise, for a smoother, cleaner mix.

Built-in Digital Effects

For musical and non-musical applications alike, effects processing adds polish and professionalism to the mix. The MX2420U features a digital multi-effect processor, offering a comprehensive suite of 99 digital effects perfect for enhancing your mix, whether adding depth to a speaking engagement or breathing new color and atmosphere into a live band performance. In particular, the high-quality reverb and delay expands the spatial quality of the sound with remarkable realism and naturalness.

LED Level Metering

Easy-to-read LED level metering allows output levels to be monitored with precision.

24-bit /192kHz 2-in/2-out USB Audio Interface Function

The MX models feature flexible digital connectivity for quick and easy high-resolution playback of digital content. Simply connect to your PC via USB, or to your iPhone / iPad (2 or later) using Apple's Camera Connection Kit / Lightning to USB Camera Adapter. The USB protocol uses asynchronous data transfer. Audio data is transferred based on highly precise audio clock signal from the MX, for high quality recording and playback.

AUX / Effect Sends / Group

The MX2420U mixers feature up to AUX sends for expanding your sound reinforcement or recording setup, allowing you to incorporate additional effects, output to external recording devices, or feed to a monitoring system. Master send controls are also provided. The MX2420U features two stereo group buses and outputs that can be used for convenient channel grouping. Assign switches for the stereo and group buses located next to each channel fader.

Internal Universal Power Supply

Thanks to a highly-efficient internal universal power supply, the MX2420U consoles offer worry-free operation in any region around the globe—even in environments prone to potentially damaging power fluctuations. An internal power supply also simplifies rack mounting of the console for installed applications, eliminating the need for a bulky adapter or additional connections.

Cubase AI

MX models are bundled with Downloadable Steinberg's Cubase AI software. As one of the most advanced, comprehensive DAW suites available, Steinberg's Cubase has led the charge, providing users with a powerful and flexible platform for music production. Cubase AI offers these same core technologies and interface that have won Cubase worldwide acclaim.

SPECIFICATIONS	
Outline Mixing Capability	
On-Board Processors	24 programs, parameter control
I/O	
Phantom Power	+48 V
Digital I/O	USB Audio Class 2.0 compliant Sampling Frequency: Max 192 kHz, Bit Depth: 24-bit
Input Channels	
Total	24
Mono [MIC/LINE]	20
Mono/Stereo [MIC/LINE]	2
Stereo [LINE]	2
Output Channels	
Stereo Out	2
Monitor Out	2
Phones	1
AUX Send	4
GROUP Out	4
Bus	Stereo: 1, GROUP: 4, AUX: 4 (incl. FX)
Input Channel Function	
PAD	26 dB (Mono)
HPF	100 Hz, 12 dB/oct (Mono/Stereo: MIC only)
COMP	1-knob compressor (Gain/Threshold/Ratio) Threshold: +22 dBu to -8 dBu, Ratio: 1:1 to 4:1, Output level: 0 dB to 7 dB Attack time: approx. 25 msec, Release time: approx. 300 msec
EQ HIGH	Gain: +15 dB/-15 dB, Frequency: 12 kHz shelving
EQ MID	Gain: +15 dB/-15 dB, Frequency: 120 Hz to 4 kHz peaking
EQ LOW	Gain: +15 dB/-15 dB, Frequency: 80 Hz shelving
PEAK LED	LED turns on when post EQ signal reaches 3 dB below clipping
Level Meter	2×12-segment LED meter [PEAK, +10, +6, +3, 0, -3, -6, -12, -18, -24, -30, -36 dB]
General	
Total harmonic distortion	0.02 % @ +12dBu (20 Hz to 20kHz), GAIN knob: Min, 0.005 % @ +24dBu (1kHz), GAIN knob: Min
Frequency response	+0.5 dB/-1.5 dB (20 Hz to 20 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min
Power requirements	AC 100 – 240 V, 50 / 60 Hz
Power consumption	30 W

SING EASY MX12UBRM

12-CHANNEL RACK-MOUNT MIXER

The Sing Easy MX12UBRM is a high-quality rackmountable, 12-input stereo output audio mixer. It is designed to handle six microphones, three stereo line inputs, and to route signals to and from external effect processing devices. As a basic, easy-to-understand mixer, it can be used in a wide variety of applications from sound reinforcement to multitrack recording.

FEATURES

- 12-channel, 3U rackmount mixer
- 6 high-gain mic/line (XLR & 1/4" balance) inputs with 48V phantom power
- 2 stereo 1/4" line inputs
- 2 aux sends (pre- and post-fader), stereo aux return, 8 - 1/4" inserts, 2-track stereo RCA I/O
- Separate XLR & 1/4" balance main and group outputs
- 2-segment equalization adjustment for each channel
- 2 sets of AUX output (including FX)
- 99 built-in DSP digital effects
- Built-in USB audio decoder, support playing MP3/WMA/APE and other format music files
- LED display playback status
- USB recording
- Built-in Bluetooth receiver
- Eight-segment three-color LED level lights display signal status

BACK VIEW

SPECIFICATIONS

Line In XLR and TRS Input Channels	6
Line In TRS Input Channels	4
Line In RCA Input Channels	2
Group XLR and TRS Output Channels	2
Main Out XLR and TRS Output Channels	2
Power Supply	100-240V 50/60Hz
Power Consumption	≤ 50W
Dimensions (W × D × H)	482 × 235 × 132mm; 3U rackmount
Packing Size (W × D × H)	555 × 350 × 205mm
Net Weight	4.7Kg
Shipping Weight	5.9Kg

SING EASY DNT44AIO

DANTE I/O PROCESSOR

DNT44AIO
Dante 44 Audio IO

● Power
● Run

DANTE/PoE   INPUTS   OUTPUTS   RS232

DC-12V

DANTE   RS485

This product is a set of converters from analog equipment to DANTE digital network, with Dante Convert to analog, analog to Dante two-way conversion function to meet different conversion needs.
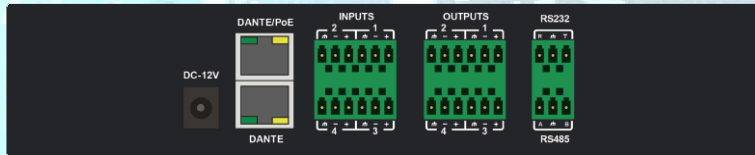
FEATURES

- Audio input (analog/Dante)
- Audio output (Dante/analog)
- Designed for Dante-enabled NLP
- Four analog input parameters with 8 levels of sensitivity
- +48V phantom power
- Four analog outputs
- PoE supported
- Half rack size saves rack space

SPECIFICATIONS

Analog Input Channels	4
Analog Output Channels	4
Dante Input Channels	4
Dante Output Channels	4
Sampling Rate	48 kHz, ± 100 ppm
Input Gain	0/6/12/18/24/30/36/42/48dB
Phantom Power	+48V/10mA max
Frequency Response	20~20kHz ±0.5dB
Maximum Level	+18dBu
THD+N	<-100dB @17dBu
Analog Input Dynamic Range	110dB
Input Dynamic Range	110dB
Output Dynamic Range	112dB
Channel Isolation @1kHz	108dB
Input Impedance (balanced connection)	5.4KΩ
Output Impedance (balanced connection)	600Ω
System Delay	<3ms
Power Supply	DC12V/PoE48V
Dimensions (W × D × H)	215 × 162 × 44mm
Shipping Weight	2Kg

SING EASY DNADA444

DANTE 4×4 PROCESSOR 400W AMPLIFIER

The Sing Easy DNADA444 is a Dante networked audio interface that transmits and receives four channels of audio over a network. DNADA444 devices are ideal for integrating audio sources with Dante-equipped DSP.

This new powerhouse features a fully integrated DANTE™ network, a high-performance DSP and controllability via USB and Ethernet using external control PC software.

The DNADA444 features four balanced line audio inputs, as well as four balanced line-level outputs. It can be powered over the network through Power over Ethernet (PoE), as well as from AC power. The DNADA444 extends the power and flexibility of the networked AV platform, by enabling facility-wide system designs that include complete audio system integration with Dante-based professional audio devices.

It delivers the performance and dependability of traditional AV distribution, with the virtually unlimited scalability and cost efficiency of integrating over data networks. It addresses the many challenges AV and IT integrators encounter with implementing networked AV systems while delivering immediate and long-term ROI to end users in enterprises and other organizations.

An impressive power reserve fires up to 4 x 400 watts at 8 ohms or 2 x 1,200 watts (bridge mode) at 8 ohms. Comprehensive safety features permanently protect the power amps and the system, even in tough situations. FIR/IIR filtering, EQs and crossovers, as well as delay functions, are all part of the overall technology.

FEATURES

- Designed for Dante-enabled NLP
- Quad-channel Dante audio bridge
- 4 × 400W Class D power amplifier
- 4 Ohm & 8 Ohm output
- Four Speakon outputs
- Selectable Stereo/Bridged Mode
- Four balanced mic/line input channels via 3-pin Euroblock connections
- Four balanced line-level output channels via 3-pin Euroblock connections
- Two USB sound cards for stereo conference recording using the front panel USB port
- LED indicators for ACT, SIGNAL, CLIP, and PROTECT
- 12 V DC power supply or PoE (Power over Ethernet) powering
- 2U rack size

SPECIFICATIONS

Channels	4
Stereo, 8Ω per channel	400W
Stereo, 4Ω per channel	600W
Stereo, 2Ω per channel	1000W
Bridged Mono, 8Ω	1200W
Bridged Mono, 4Ω	1600W
Frequency Response	at 1W, 6.8 Hz to 34 kHz (8 ohms) +0/-3 dB
Total Harmonic Distortion	0.01 to 0.03% @ 1 KHz
Signal-to-Noise Ratio	>104 dB
Damping Factor	>600
Crosstalk	>70
Input Sensitivity	1.2V, 26 dB, 32 dB
Input Impedance	10 KΩ balanced or 10 KΩ unbalance
Power Supply	12 V DC or PoE 48V
Net weight	14.5 Kg
Packing weight	15 Kg
Dimensions (W x H x D)	483 × 88 × 439.5 mm
Packing Dimensions (W x H x D)	575 × 155 × 575 mm

SING EASY DNADA446

DANTE 4×4 PROCESSOR 600W AMPLIFIER

The Sing Easy DNADA446 is a Dante networked audio interface that transmits and receives four channels of audio over a network. DNADA446 devices are ideal for integrating audio sources with Dante-equipped DSP.

This new powerhouse features a fully integrated DANTE™ network, a high-performance DSP and controllability via USB and Ethernet using external control PC software.

The DNADA446 features four balanced line audio inputs, as well as four balanced line-level outputs. It can be powered over the network through Power over Ethernet (PoE), as well as from AC power. The DNADA446 extends the power and flexibility of the networked AV platform, by enabling facility-wide system designs that include complete audio system integration with Dante-based professional audio devices.

It delivers the performance and dependability of traditional AV distribution, with the virtually unlimited scalability and cost efficiency of integrating over data networks. It addresses the many challenges AV and IT integrators encounter with implementing networked AV systems while delivering immediate and long-term ROI to end users in enterprises and other organizations.

An impressive power reserve fires up to 4 x 600 watts at 8 ohms or 2 x 1,800 watts (bridge mode) at 8 ohms. Comprehensive safety features permanently protect the power amps and the system, even in tough situations. FIR/IIR filtering, EQs and crossovers, as well as delay functions, are all part of the overall technology.

FEATURES

- Designed for Dante-enabled NLP
- Quad-channel Dante audio bridge
- 4 × 600W Class D power amplifier
- 4 Ohm & 8 Ohm output
- Four Speakon outputs
- Selectable Stereo/Bridged Mode
- Four balanced mic/line input channels via 3-pin Euroblock connections
- Four balanced line-level output channels via 3-pin Euroblock connections
- Two USB sound cards for stereo conference recording using the front panel USB port
- LED indicators for ACT, SIGNAL, CLIP, and PROTECT
- 12 V DC power supply or PoE (Power over Ethernet) powering
- 2U rack size

SPECIFICATIONS

Channels	4
Stereo, 8Ω per channel	600W
Stereo, 4Ω per channel	900W
Stereo, 2Ω per channel	1500W
Bridged Mono, 8Ω	1800W
Bridged Mono, 4Ω	2400W
Frequency Response	at 1W, 6.8 Hz to 34 kHz (8 ohms) +0/-3 dB
Total Harmonic Distortion	0.02 to 0.03% @ 1 KHz
Signal-to-Noise Ratio	>104 dB
Damping Factor	>600
Crosstalk	>70
Input Sensitivity	1.2V, 26 dB, 32 dB
Input Impedance	10 KΩ balanced or 10 KΩ unbalance
Power Supply	12 V DC or PoE 48V
Net weight	14.5 Kg
Packing weight	15 Kg
Dimensions (W x H x D)	483 × 88 × 439.5 mm
Packing Dimensions (W x H x D)	575 × 155 × 575 mm

SING EASY DNADA448

DANTE 4×4 PROCESSOR 800W AMPLIFIER

The Sing Easy DNADA448 is a Dante networked audio interface that transmits and receives four channels of audio over a network. DNADA448 devices are ideal for integrating audio sources with Dante-equipped DSP.

This new powerhouse features a fully integrated DANTE™ network, a high-performance DSP and controllability via USB and Ethernet using external control PC software.

The DNADA448 features four balanced line audio inputs, as well as four balanced line-level outputs. It can be powered over the network through Power over Ethernet (PoE), as well as from AC power. The DNADA448 extends the power and flexibility of the networked AV platform, by enabling facility-wide system designs that include complete audio system integration with Dante-based professional audio devices.

It delivers the performance and dependability of traditional AV distribution, with the virtually unlimited scalability and cost efficiency of integrating over data networks. It addresses the many challenges AV and IT integrators encounter with implementing networked AV systems while delivering immediate and long-term ROI to end users in enterprises and other organizations.

An impressive power reserve fires up to 4 x 800 watts at 8 ohms or 2 x 2,400 watts (bridge mode) at 8 ohms. Comprehensive safety features permanently protect the power amps and the system, even in tough situations. FIR/IIR filtering, EQs and crossovers, as well as delay functions, are all part of the overall technology.

FEATURES

- Designed for Dante-enabled NLP
- Quad-channel Dante audio bridge
- 4 × 800W Class D power amplifier
- 4 Ohm & 8 Ohm output
- Four Speakon outputs
- Selectable Stereo/Bridged Mode
- Four balanced mic/line input channels via 3-pin Euroblock connections
- Four balanced line-level output channels via 3-pin Euroblock connections
- Two USB sound cards for stereo conference recording using the front panel USB port
- LED indicators for ACT, SIGNAL, CLIP, and PROTECT
- 12 V DC power supply or PoE (Power over Ethernet) powering
- 2U rack size

SPECIFICATIONS

Channels	4
Stereo, 8Ω per channel	800W
Stereo, 4Ω per channel	1200W
Stereo, 2Ω per channel	2000W
Bridged Mono, 8Ω	2400W
Bridged Mono, 4Ω	3200W
Frequency Response	at 1W, 6.8 Hz to 34 kHz (8 ohms) +0/-3 dB
Total Harmonic Distortion	0.03 to 0.03% @ 1 KHz
Signal-to-Noise Ratio	>104 dB
Damping Factor	>600
Crosstalk	>70
Input Sensitivity	1.2V, 26 dB, 32 dB
Input Impedance	10 KΩ balanced or 10 KΩ unbalance
Power Supply	12 V DC or PoE 48V
Net weight	16 Kg
Packing weight	15.5 Kg
Dimensions (W x H x D)	483 × 88 × 439.5 mm
Packing Dimensions (W x H x D)	575 × 155 × 575 mm

SING EASY DNADA4410

DANTE 4×4 PROCESSOR 1000W AMPLIFIER

The Sing Easy DNADA4410 is a Dante networked audio interface that transmits and receives four channels of audio over a network. DNADA4410 devices are ideal for integrating audio sources with Dante-equipped DSP.

This new powerhouse features a fully integrated DANTE™ network, a high-performance DSP and controllability via USB and Ethernet using external control PC software.

The DNADA4410 features four balanced line audio inputs, as well as four balanced line-level outputs. It can be powered over the network through Power over Ethernet (PoE), as well as from AC power. The DNADA4410 extends the power and flexibility of the networked AV platform, by enabling facility-wide system designs that include complete audio system integration with Dante-based professional audio devices.

It delivers the performance and dependability of traditional AV distribution, with the virtually unlimited scalability and cost efficiency of integrating over data networks. It addresses the many challenges AV and IT integrators encounter with implementing networked AV systems while delivering immediate and long-term ROI to end users in enterprises and other organizations.

An impressive power reserve fires up to 4 x 1,000 watts at 8 ohms or 2 x 3,000 watts (bridge mode) at 8 ohms. Comprehensive safety features permanently protect the power amps and the system, even in tough situations. FIR/IIR filtering, EQs and crossovers, as well as delay functions, are all part of the overall technology.

FEATURES

- Designed for Dante-enabled NLP
- Quad-channel Dante audio bridge
- 4 × 1,000W Class D power amplifier
- 4 Ohm & 8 Ohm output
- Four Speakon outputs
- Selectable Stereo/Bridged Mode
- Four balanced mic/line input channels via 3-pin Euroblock connections
- Four balanced line-level output channels via 3-pin Euroblock connections
- Two USB sound cards for stereo conference recording using the front panel USB port
- LED indicators for ACT, SIGNAL, CLIP, and PROTECT
- 12 V DC power supply or PoE (Power over Ethernet) powering
- 2U rack size

SPECIFICATIONS

Channels	4
Stereo, 8Ω per channel	1000W
Stereo, 4Ω per channel	1500W
Stereo, 2Ω per channel	2500W
Bridged Mono, 8Ω	3000W
Bridged Mono, 4Ω	4000W
Frequency Response	at 1W, 6.8 Hz to 34 kHz (8 ohms) +0/-3 dB
Total Harmonic Distortion	0.04 to 0.03% @ 1 KHz
Signal-to-Noise Ratio	>104 dB
Damping Factor	>600
Crosstalk	>70
Input Sensitivity	1.2V, 26 dB, 32 dB
Input Impedance	10 KΩ balanced or 10 KΩ unbalance
Power Supply	12 V DC or PoE 48V
Net weight	15.5 Kg
Packing weight	16 Kg
Dimensions (W x H x D)	483 × 88 × 439.5 mm
Packing Dimensions (W x H x D)	575 × 155 × 575mm

SING EASY DNADA4413

DANTE 4×4 PROCESSOR 1300W AMPLIFIER

The Sing Easy DNADA4413 is a Dante networked audio interface that transmits and receives four channels of audio over a network. DNADA4413 devices are ideal for integrating audio sources with Dante-equipped DSP.

This new powerhouse features a fully integrated DANTE™ network, a high-performance DSP and controllability via USB and Ethernet using external control PC software.

The DNADA4413 features four balanced line audio inputs, as well as four balanced line-level outputs. It can be powered over the network through Power over Ethernet (PoE), as well as from AC power. The DNADA4413 extends the power and flexibility of the networked AV platform, by enabling facility-wide system designs that include complete audio system integration with Dante-based professional audio devices.

It delivers the performance and dependability of traditional AV distribution, with the virtually unlimited scalability and cost efficiency of integrating over data networks. It addresses the many challenges AV and IT integrators encounter with implementing networked AV systems while delivering immediate and long-term ROI to end users in enterprises and other organizations.

An impressive power reserve fires up to 4 x 1,300 watts at 8 ohms or 2 x 3,900 watts (bridge mode) at 8 ohms. Comprehensive safety features permanently protect the power amps and the system, even in tough situations. FIR/IIR filtering, EQs and crossovers, as well as delay functions, are all part of the overall technology.

FEATURES

- Designed for Dante-enabled NLP
- Quad-channel Dante audio bridge
- 4 × 1,300W Class D power amplifier
- 4 Ohm & 8 Ohm output
- Four Speakon outputs
- Selectable Stereo/Bridged Mode
- Four balanced mic/line input channels via 3-pin Euroblock connections
- Four balanced line-level output channels via 3-pin Euroblock connections
- Two USB sound cards for stereo conference recording using the front panel USB port
- LED indicators for ACT, SIGNAL, CLIP, and PROTECT
- 12 V DC power supply or PoE (Power over Ethernet) powering
- 2U rack size

SPECIFICATIONS

Channels	4
Stereo, 8Ω per channel	1300W
Stereo, 4Ω per channel	1950W
Stereo, 2Ω per channel	3250W
Bridged Mono, 8Ω	3900W
Bridged Mono, 4Ω	5200W
Frequency Response	at 1W, 6.8 Hz to 34 kHz (8 ohms) +0/-3 dB
Total Harmonic Distortion	0.05 to 0.03% @ 1 KHz
Signal-to-Noise Ratio	>104 dB
Damping Factor	>600
Crosstalk	>70
Input Sensitivity	1.2V, 26 dB, 32 dB
Input Impedance	10 KΩ balanced or 10 KΩ unbalance
Power Supply	12 V DC or PoE 48V
Net weight	15.5 Kg
Packing weight	16 Kg
Dimensions (W x H x D)	483 × 88 × 439.5 mm
Packing Dimensions (W x H x D)	575 × 155 × 575 mm

SING EASY DNADA4416

DANTE 4×4 PROCESSOR 1600W AMPLIFIER

The Sing Easy DNADA4416 is a Dante networked audio interface that transmits and receives four channels of audio over a network. DNADA4416 devices are ideal for integrating audio sources with Dante-equipped DSP.

This new powerhouse features a fully integrated DANTE™ network, a high-performance DSP and controllability via USB and Ethernet using external control PC software.

The DNADA4416 features four balanced line audio inputs, as well as four balanced line-level outputs. It can be powered over the network through Power over Ethernet (PoE), as well as from AC power. The DNADA4416 extends the power and flexibility of the networked AV platform, by enabling facility-wide system designs that include complete audio system integration with Dante-based professional audio devices.

It delivers the performance and dependability of traditional AV distribution, with the virtually unlimited scalability and cost efficiency of integrating over data networks. It addresses the many challenges AV and IT integrators encounter with implementing networked AV systems while delivering immediate and long-term ROI to end users in enterprises and other organizations.

An impressive power reserve fires up to 4 x 1,500 watts at 8 ohms or 2 x 4,500 watts (bridge mode) at 8 ohms. Comprehensive safety features permanently protect the power amps and the system, even in tough situations. FIR/IIR filtering, EQs and crossovers, as well as delay functions, are all part of the overall technology.

FEATURES

- Designed for Dante-enabled NLP
- Quad-channel Dante audio bridge
- 4 × 1,600W Class D power amplifier
- 4 Ohm & 8 Ohm output
- Four Speakon outputs
- Selectable Stereo/Bridged Mode
- Four balanced mic/line input channels via 3-pin Euroblock connections
- Four balanced line-level output channels via 3-pin Euroblock connections
- Two USB sound cards for stereo conference recording using the front panel USB port
- LED indicators for ACT, SIGNAL, CLIP, and PROTECT
- 12 V DC power supply or PoE (Power over Ethernet) powering
- 2U rack size

SPECIFICATIONS

Channels	4
Stereo, 8Ω per channel	1600W
Stereo, 4Ω per channel	2200W
Stereo, 2Ω per channel	3750W
Bridged Mono, 8Ω	4500W
Bridged Mono, 4Ω	6000W
Frequency Response	at 1W, 6.8 Hz to 34 kHz (8 ohms) +0/-3 dB
Total Harmonic Distortion	0.06 to 0.03% @ 1 KHz
Signal-to-Noise Ratio	>104 dB
Damping Factor	>600
Crosstalk	>70
Input Sensitivity	1.2V, 26 dB, 32 dB
Input Impedance	10 KΩ balanced or 10 KΩ unbalance
Power Supply	12 V DC or PoE 48V
Net weight	15.5 Kg
Packing weight	16 Kg
Dimensions (W x H x D)	483 × 88 × 439.5 mm
Packing Dimensions (W x H x D)	575 × 155 × 575 mm

SING EASY PA-L1xD

2-WAY FULL-RANGE POWERED DANTE LOUDSPEAKER SYSTEM

The PA-L1xD is bi-amplified using two dedicated high resonance digital amplifiers, featuring outstanding efficiency, with each amp delivering up to 1600 Watts (LF) and 400 Watts (HF) under 8 ohms.

Each speaker channel is under control by a powerful 64-bit digital processing unit. Each of these on-board DSP units include a module dedicated to managing core system parameters including system EQ, time alignment between sections, and limiting. This level of control makes the PA-L1xD Series fully protected and able to operate at the full extent of its abilities.

High-power Class D amplifier

Loaded with up to 2,000 watts of Class D power, the PA-L1xD is a beast. It delivers up to an impressive 129dB SPL, so go ahead and crank it up as the PA-L1xD can take it. Enjoy maximum power, along with stable, worry-free operation, thanks to a universal switching-mode power supply. Beyond that, this amp was optimized to match the PA-L1xD's transducers, ensuring top-tier sound quality.

Power, Performance, and Easy System Integration

The PA-L1xD offers superb clarity and best-in-class SPL performance. This 2-way bi-amped PA speaker boasts a high-power up to 2,000-watt Class D amplifier and a widest 40Hz–20kHz frequency range, and it can tackle any application you throw at it. Sophisticated DSP processing yields high-resolution sound with super-low latency, while an intuitive IPS LCD display makes dialing in your settings a piece of cake. Built-in Dante capabilities enable smart system integration with any other Dante devices. The PA-L1xD employs a lightweight yet durable plywood cabinet with a premium-grade German polyurea coating.

Built-in Dante capabilities

Integrating the PA-L1xD Series with any Dante devices is a breeze. The PA-L1xD Series features a built-in 2-in/2-out Dante interface, along with sample rate conversion, allowing 48kHz device compatibility. You can also combine the PA-L1xD's Analog I/O with Dante I/O, supplying you with flexible routing and system configuration. Or use the Dante break-In and break-Out function to act as a simple I/O box.

FEATURES

- 2-way powered loudspeaker with 1.73" (44mm) HF and 10" (260mm) or 12" (310mm) or 15" (380mm) LF drivers
- Boasts a high-power up to 2,000-watt Class D amplifier and widest 40Hz-20kHz frequency range
- Intuitive 1.4" (35.56mm) IPS LCD screen for quick settings and monitoring
- Dante Controller, Dante Via, and Dante Virtual Sound Card compatible
- Large dynamic high-performance woofer for high-power capacity and very lightweight
- 90° x 70° coverage pattern for even and smooth response on and off axis
- Advanced DSP tuning employs a combination of FIR filtering and corrective EQ to minimize phase distortion
- Precision engineered crossover for optimal power response and performance in the vocal midrange region
- Single position pole socket for applications requiring pole mounting
- DSP protection safeguards your power supply, power amplifiers, and transducers against damage
- Optimized factory presets and intuitive IPS screen make operation easy
- Built-in 2-in/2-out Dante interface enables smart system integration with any other Dante devices
- Universal switching-mode power supply offers maximum power, along with stable, worry-free operation
- Attractive 16 gauge protective screen backed steel grille
- Lightweight yet durable 15mm plywood cabinet with a premium-grade German polyurea coating

LOUDSPEAKER PROCESSING

Crossover	Multiple filter types (Butterworth, Linkwitz-Riley, Bessel)
Delay	120ms (input) / 20ms (output)
Control and monitoring interface	Full configuration and real-time monitoring via PC

AUDIO PERFORMANCE

THD + N 20Hz-20kHz for 1W	<0.05%
Input impedance	Balanced > 10kΩ
Processing	64-bit floating-point processing resolution
A to D conversion	24 bit
Internal sample rate	48 kHz

LED, CONNECTORS AND BUTTONS

Protection LED	Protect, Clip, and Signal
Intuitive LCD screen	1.4" (35.56mm) IPS LCD
Input connectors (Analog)	1 x Male XLR (Pin 2+, Pin 3-), 1 x Female XLR (Pin 2+, Pin 3-)
Input connectors (Dante)	2 x RJ45 etherCON
Mains connectors	2 x powerCON
Control	USB-B
Buttons	Power, volume, and rotary knob
Encoder	Adjust, Set

ACOUSTICAL SPECIFICATIONS

	PA-L10D	PA-L12D	PA-L15D
Operating frequency range	45Hz-20kHz	55Hz-20kHz	40Hz-20kHz
Number of ways		2	
Maximum SPL	125dB	127dB	129dB
Horizontal coverage		90°	
Vertical coverage		70°	
Presets		99 user-definable presets	

TECHNICAL SPECIFICATIONS

	PA-L10D	PA-L12D	PA-L15D
Transducer (HF)	Single 1.73" (44mm)	Single 1.73" (44mm)	Single 1.73" (44mm)
Transducer (LMF)	Single 10" (260mm)	Single 12" (310mm)	Single 15" (380 mm)
RMS capacity (HF)	100W @ 8Ω, Class-D	100W @ 8Ω, Class-D	100W @ 8Ω, Class-D
RMS capacity (LMF)	300W @ 8Ω, Class-D	300W @ 8Ω, Class-D	400W @ 4Ω, Class-D
Peak capacity (HF)	400W @ 8Ω, Class-D	400W @ 8Ω, Class-D	400W @ 8Ω, Class-D
Peak capacity (LMF)	1,200W @ 8Ω, Class-D	1,200W @ 8Ω, Class-D	1,600W @ 4Ω, Class-D
Enclosure type		Bass-reflex	
Crossover type		DSP	
Crossover frequencies		1.6kHz	

PHYSICAL SPECIFICATIONS

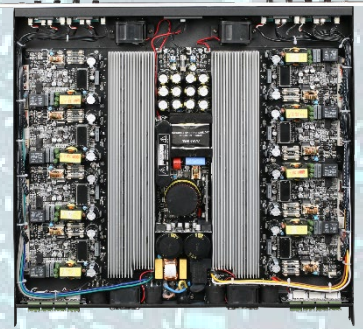|	PA-L10D	PA-L12D	PA-L15D
Height	520mm	600mm	620mm
Width	330mm	380mm	440mm
Depth	350mm	400mm	420mm
Weight	16Kg	25Kg	30Kg
Riggings		M8 suspension points and integral pole mount socket	

SING EASY PAV8000 SERIES

EIGHT CHANNEL AMPLIFIER

The PAV8000 series merges the efficiency of Class D digital amplifiers with the pristine audio quality of traditional Class B amplifiers. With a remarkable capacity to deliver up to 1400W at 8Ω in bridged mode, it provides ample headroom to ensure a clean, undistorted signal to your speakers. The PAV8000 series guarantees that your sound will be impactful, offering a powerful and clear audio experience for any setting. It is ideal for multi-channel applications, including conferences and small events.

FEATURES

- Utilizing Class D technology, it delivers superior performance with significantly reduced heat dissipation while providing greater power to the speaker
- Features both parallel and bridge mode functionality
- Wide dynamic range, high efficiency, low distortion, and an excellent damping factor, ensuring long-term performance stability and enhancing the lifespan of the cooling circuit
- Compact design stands in contrast to traditional audio amplifiers
- Class D technology delivering superior performance with significantly reduced heat dissipation while providing greater power to the speaker

SPECIFICATIONS

	PAV8200	PAV8260	PAV8390
Channels		8	
Stereo, 8Ω per channel	200W	260W	390W
Stereo, 4Ω per channel	380W	480W	750W
Stereo, 2Ω per channel	600W	750W	1200W
Bridged Mono, 8Ω	720W	950W	1400W
Frequency Response		at 1W, 10Hz to 20kHz (8ohms) +0/-3dB	
Total Harmonic Distortion		0.02% to 0.05% @ 1KHz	
Signal-to-Noise Ratio		>100dB	
Damping Factor		>600	
Crosstalk		>70	
Input Sensitivity		0.775V or 1.2V (rated power 8Ω)	
Input Impedance		>10KΩ balanced or 10KΩ unbalance	
Input Connector		Female XLR	
Output Circuitry		Class D	
Output Connector		Speakon	
Cooling		Dual vari-speed fans, front-to-back airflow, intelligent stepless wind speed	
Net weight	8Kg	8Kg	8.7Kg
Dimensions (W x D x H)	483 × 420 × 45mm	483 × 420 × 45mm	483 × 420 × 45mm

SING EASY LC4

FOUR CHANNEL AMPLIFIER

The LC4 series combines the efficiency of Class D digital amplifiers with the pure sound of traditional Class B amplifiers. The LC4 series is high-efficient and can drive up to 3900W at 8Ω bridged with tons of headroom guaranteeing a clean, undistorted signal straight to your speakers. The LC4 series assures that you will be heard as you deliver a powerful, pure sound experience for any venue.

Distributed design

4 channels

FEATURES

- Class TD high efficiency amplifier, four-channel designs, maximum power up to (8 Ohm) two-channel × 1300W, three-channel (2 channel x 1300W + 1 channel x 3900W or four-channel × 1300W)
- Variable color LED strip which converts to green, yellow and red color according to different operation modes
- Huge and elegant LCD display screen showing the AC voltage and independent output signal level, fan speed, temperature, etc
- Built-in high pass "HF" and low pass "LF" crossover
- Magnetically removable ventilation panel cover for easy removal and cleaning
- Each channel has separated module for easy maintenance
- Recommended for indoor fixed installation, entertainment, meeting room and other places

SPECIFICATIONS

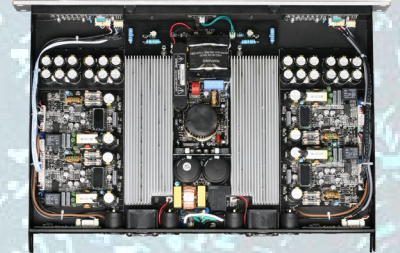|	LC4.6	LC4.8	LC4.10	LC4.13
Channels	4	4	4	4
Stereo, 8Ω per channel	600W	800W	1000W	1300W
Stereo, 4Ω per channel	1100W	1300W	1600W	1800W
Stereo, 2Ω per channel	1400W	1600W	2000W	2600W
Bridged Mono, 8Ω	2200W	2700W	3300W	3900W
Frequency Response	at 1W, 20Hz to 30kHz (8ohms) +0/-3dB			
Total Harmonic Distortion	< 0.1% @ 1KHz			
Signal-to-Noise Ratio	≥104dB			
Damping Factor	>500			
Crosstalk	≥65			
Input Modes	CH A & CH B / CH C & CH D: Stereo / Parallel / Bridge			
Crossover Modes	CH A & CH B / CH C & CH D: HF / LF / Pass-Thru			
Input Sensitivity	0.775V or 1.0V or 1.4V (rated power 8Ω)			
Input Impedance	20KΩ balanced or 10KΩ unbalance			
Cooling	Dual vari-speed fans, front-to-back airflow, intelligent stepless wind speed			
Net weight	26Kg	27Kg	28Kg	29.3Kg
Packing weight	26.3Kg	27.3Kg	28.3Kg	29.6Kg
Dimensions (W x H x D)	483 × 88 × 453mm			
Packing Dimensions (W x H x D)	575 × 155 × 575mm			

SING EASY PAV4

FOUR CHANNEL AMPLIFIER

The PAV4000 series merges the efficiency of Class D digital amplifiers with the pristine audio quality of traditional Class B amplifiers. With a remarkable capacity to deliver up to 1600W at 8Ω in bridged mode, it provides ample headroom to ensure a clean, undistorted signal to your speakers. The PAV4000 series guarantees that your sound will be impactful, offering a powerful and clear audio experience for any setting. It is ideal for multi-channel applications, including conferences and small events.

FEATURES

- Utilizing Class D technology, it delivers superior performance with significantly reduced heat dissipation while providing greater power to the speaker
- Features both parallel and bridge mode functionality
- Wide dynamic range, high efficiency, low distortion, and an excellent damping factor, ensuring long-term performance stability and enhancing the lifespan of the cooling circuit
- Compact design stands in contrast to traditional audio amplifiers
- Class D technology delivering superior performance with significantly reduced heat dissipation while providing greater power to the speaker

SPECIFICATIONS

	PAV4200	PAV4260	PAV4390	PAV4470
Channels	4			
Stereo, 8Ω per channel	200W	260W	390W	470W
Stereo, 4Ω per channel	380W	480W	750W	910W
Stereo, 2Ω per channel	600W	750W	1200W	1450W
Bridged Mono, 8Ω	720W	950W	1400W	1600W
Frequency Response	at 1W, 10Hz to 20kHz (8ohms) +0/-3dB			
Total Harmonic Distortion	0.02% to 0.05% @ 1KHz			
Signal-to-Noise Ratio	>100dB			
Damping Factor	>600			
Crosstalk	>70			
Input Sensitivity	0.775V or 1.2V (rated power 8Ω)			
Input Impedance	>10KΩ balanced or 10KΩ unbalance			
Input Connector	Female XLR			
Output Circuitry	Class D			
Output Connector	Speakon			
Cooling	Dual vari-speed fans, front-to-back airflow, intelligent stepless wind speed			
Net weight	7Kg	7.3Kg	7.3Kg	7.5Kg
Dimensions (W x D x H)	483 × 320 × 45mm	483 × 320 × 45mm	483 × 320 × 45mm	483 × 420 × 45mm

SING EASY LC2
TWO CHANNEL AMPLIFIER

The LC2 series combines the efficiency of Class D digital amplifiers with the pure sound of traditional Class B amplifiers. The LC2 series is high-efficient and can drive up to 3900W at 8Ω bridged with tons of headroom guaranteeing a clean, undistorted signal straight to your speakers. The LC2 series assures that you will be heard as you deliver a powerful, pure sound experience for any venue.

2 channels

FEATURES

- Class TD high efficiency amplifier, two-channel designs, maximum power up to (8 Ohm) two-channel × 1300W or one-channel x 3900W
- Variable color LED strip which converts to green, yellow and red color according to different operation modes
- Huge and elegant LCD display screen showing the AC voltage and independent output signal level, fan speed, temperature, etc
- Built-in high pass "HF" and low pass "LF" crossover
- Low pass adjust knob
- Built-in clip limiter
- Magnetically removable ventilation panel cover for easy removal and cleaning
- Each channel has separated module for easy maintenance
- Recommended for indoor fixed installation, entertainment, meeting room and other places

SPECIFICATIONS

	LC2.6	LC2.8	LC2.10	LC2.13
Channels	2	2	2	2
Stereo, 8Ω per channel	600W	800W	1000W	1300W
Stereo, 4Ω per channel	1100W	1300W	1600W	1800W
Bridged Mono, 8Ω	2200W	2700W	3300W	3900W
Frequency Response	at 1W, 20Hz to 30kHz (8ohms) +0/-3dB			
Total Harmonic Distortion	< 0.1% @ 1KHz			
Signal-to-Noise Ratio	≥104dB			
Damping Factor	>500			
Crosstalk	≥65			
Input Modes	CH A & CH B: Stereo / Parallel / Bridge			
Crossover Modes	CH A & CH B: LowCut / Subwoofer / Off			
Input Sensitivity	0.775V or 1.4V or 2.5V (rated power 8Ω)			
Input Impedance	20KΩ balanced or 10KΩ unbalance			
Cooling	Dual vari-speed fans, front-to-back airflow, intelligent stepless wind speed			
Net weight	22Kg	22.5Kg	23Kg	25Kg
Dimensions (W x H x D)	483 × 88 × 350mm			

SING EASY PAV2

TWO CHANNEL AMPLIFIER

The PAV2000 series merges the efficiency of Class D digital amplifiers with the pristine audio quality of traditional Class B amplifiers. With a remarkable capacity to deliver up to 1600W at 8Ω in bridged mode, it provides ample headroom to ensure a clean, undistorted signal to your speakers. The PAV2000 series guarantees that your sound will be impactful, offering a powerful and clear audio experience for any setting.

FEATURES

- Utilizing Class D technology, it delivers superior performance with significantly reduced heat dissipation while providing greater power to the speaker
- Features both parallel and bridge mode functionality
- Wide dynamic range, high efficiency, low distortion, and an excellent damping factor, ensuring long-term performance stability and enhancing the lifespan of the cooling circuit
- Compact design stands in contrast to traditional audio amplifiers
- Class D technology delivering superior performance with significantly reduced heat dissipation while providing greater power to the speaker
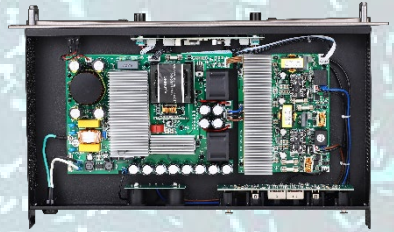
SPECIFICATIONS

	PAV2200	PAV2260	PAV2390	PAV2470
Channels	2			
Stereo, 8Ω per channel	200W	260W	390W	470W
Stereo, 4Ω per channel	380W	480W	750W	910W
Stereo, 2Ω per channel	600W	750W	1200W	1450W
Bridged Mono, 8Ω	720W	950W	1400W	1600W
Frequency Response	at 1W, 10Hz to 20kHz (8ohms) +0/-3dB			
Total Harmonic Distortion	0.02% to 0.05% @ 1KHz			
Signal-to-Noise Ratio	>100dB			
Damping Factor	>600			
Crosstalk	>70			
Input Sensitivity	0.775V or 1.2V or 2.8V (rated power 8Ω)			
Input Impedance	>10KΩ balanced or 10KΩ unbalance			
Input Connector	Female XLR			
Output Circuitry	Class D			
Output Connector	Speakon			
Cooling	Dual vari-speed fans, front-to-back airflow, intelligent stepless wind speed			
Net weight	7Kg	7.3Kg	7.3Kg	7.5Kg
Dimensions (W x D x H)	483 × 295 × 45mm	483 × 295 × 45mm	483 × 295 × 45mm	483 × 295 × 45mm

SING EASY PAS

DUAL CHANNEL D CLASS AMPLIFIER

Meet the new PAS Series. The new generation of PAS got a sleek new look LCD display. The new PAS Series amplifier can drive up to 1300W at 8 per channel with tons of headroom guaranteeing a clean, undistorted signal straight to your speakers. The new PAS assures that you will be heard as you deliver powerful, pure sound experiences for any venue.

FEATURES

- High performance Class-D amplifier
- Servo power system
- LCD screen
- Soft-Start circuit to reduce the start-up surge current
- Efficient forced-air fans prevent excessive thermal build up
- Selectable input sensitivity; 1.4Vrms and .775Vrms options so that amp can be driven at full power
- Limiters provide maximum output while protecting your speakers
- DC output protection function
- Balanced input and output interfaces
- High quality black sandblasted oxidized aluminum panel
- Double-sided PCB board technology
- 90% of the circuit boards SMT manufactured

SPECIFICATIONS

	PAS-450	PAS-650	PAS-850	PAS-1K0	PAS-1K3
Channels			2		
Stereo, 8 ohms (per ch.)	450W	650W	850W	1000W	1300W
Stereo, 4 ohms (per ch.)	600W	900W	1200W	1500W	1800W
Bridge-Mono, 8 ohms			not supported		
Sensitivity			.775Vrms or 1.4Vrms		
Frequency Response			(at 1 watt, 20 Hz - 20 kHz): +0dB, -1.5dB		
Signal-to-Noise Ratio			(rated as dB to full rated 8Ω power output; A-Weighted): >105dB		
Total Harmonic Distortion (THD)			(at 1 full bandwidth power, from 20 Hz to 1 kHz): ≤1%		
Damping Factor (8 ohm) 1 kHz			>400		
Crosstalk (below rated power at 1 kHz)			> 70dB		
Maximum Input Level			21dBV/9V		
Input Impedance			20Kohm		
Slew Rate Internal			60V/μS		
Protections			power-on/off mute protection, output current limiting, thermal protection, dc protection and circuit breaker		
Indicators			clip (red), protect (yellow), signal (green) and power (blue)		
Ventilation			flow-through ventilation from front to back		
Cooling			internal heat sinks with forced-air cooling		
Front Panel Controls			CH A and CH B level control, power switch		
Rear Panel Controls			stereo / parallel mode switch and 0.775V / 1.4V input sensitivity switch		
Connectors			balanced XLR inputs and XLR outputs 2-pole Speakon® output connectors and binding post output jacks		
Power Supply			220 VAC 50Hz		
8 Ω Half Load Efficiency	< 600W	< 800W	< 1000W	< 1200W	< 1500W
Dimensions (W × D × H)			483 × 440 × 88mm		
Net Weight	16.5Kg	18Kg	23Kg	26Kg	30Kg
Shipping Weight	18.5 Kg	20 Kg	25Kg	28Kg	32Kg

SING EASY PL-L

2-WAY FULL-RANGE LOUDSPEAKER SYSTEM

The PL-L series is a 2-way full-range loudspeaker with a custom tweeter and a large dynamic woofer. The high frequency driver uses a 1.73-inch compression driver for a wide and clear frequency response, and the low frequency driver uses a large dynamic high-performance driver. The unique air vent design of the cabinet enables the entire single speaker system to output up to 400W of continuous power. The excellent unit configuration and optimized crossover electrical design make the speakers extremely expressive, with good low-frequency dive, and with 70° x 60° coverage pattern provides smooth, even coverage whether used in the vertical or horizontal orientation, it can be widely used in high-end business clubs and high-end KTV rooms and other places.

FEATURES

- Large dynamic high-performance woofer for high-power capacity and very lightweight
- Enclosure constructed of 15 mm plywood with rugged durable painting
- 1.73-inch compression driver on PL-L10 and PL-L12
- 70° x 60° coverage pattern for even and smooth response on and off axis on PL-L10 and PL-L12
- 3-inch compression driver on PL-L15
- 90° x 50° coverage pattern for even and smooth response on and off axis on PL-L16
- Attractive 16-gauge protective screen backed steel grille
- Precision engineered crossover for optimal power response and performance in the vocal midrange region
- Single position pole socket for applications requiring pole mounting
- Karaoke sound reinforcement
- Bar and club live or pre-recorded sound reinforcement
- High-performance satellite speaker for use with subwoofers

SPECIFICATIONS

	PL-L10	PL-L12	PL-L15
Low Frequency Driver	1 × 10" or 260mm	1 × 12" or 310mm	1 × 15" or 380mm
High Frequency Driver	1 × 1.73" or 44mm		1 × 3" or 75mm
Frequency Response (±3 dB)	55Hz to 20kHz	50Hz to 20kHz	50Hz to 20kHz
Sensitivity (1w@1m)	98dB	99dB	99dB
Nominal Impedance	8 ohms		
Power Ratings	Continuous 300 W / Peak 1200 W	Continuous 400 W / Peak 1600 W	Continuous 500 W / Peak 2000 W
SPL Output	126dB	130dB	130dB
Nominal Dispersion	70° x 60° coverage pattern for even and smooth response on and off axis		90° x 50° coverage pattern for even and smooth response on and off axis
Mounting Methods	Integral pole mount socket		
Input Connectors	2 × Speakon NL4MP		
Dimensions (H × W × D)	520 × 315 × 360 mm	590 × 370 × 415 mm	700 × 440 × 460 mm

SING EASY RK-L10

3-WAY FULL-RANGE LOUDSPEAKER SYSTEM

The RK-L10 series is a 3-way full-range loudspeaker with 5 drivers in total, 2 paper cone tweeters, 2 mid-ranges and a large dynamic woofer driver. The high frequency driver uses a 3-inch compression driver for a wide and clear frequency response, and the low frequency driver uses a large dynamic high-performance driver. The unique air vent design of the cabinet enables the entire single speaker system to output up to 400W of continuous power. The excellent unit configuration and optimized crossover electrical design make the speakers extremely expressive, with good low-frequency dive, and with 70° x 60° coverage pattern provides smooth, even coverage whether used in the vertical or horizontal orientation.

FEATURES

- Karaoke sound reinforcement
- Suitable for any kind of restaurant, bar, live house, night club house, karaoke room or any home entertainment room

SPECIFICATIONS

Low Frequency Driver	Single 10" (260 mm) woofer driver
Mid Frequency Driver	Dual 3" (82 mm) mid-range drivers
High Frequency Driver	Dual 3" (82 mm) paper cone tweeter drivers
Frequency Response (−3 dB)	50Hz to 20KHz
Sensitivity (1w@1m)	92dB
Crossover Frequency	12dB/Octave 1.6KHz
Nominal Impedance	8 ohms
Power Ratings	Nominal 200W / Continuous 350 W / Peak 400 W
SPL Output	110dB
Suspension/Mounting	20 x M8 Suspension points
Input Connectors	2 × Speakon NL4MP
Enclosure Color	Black enclosure with red stripes (stripes color may vary)
Enclosure	MDF Wood
Finish	Environmentally friendly water-based paint
Dimensions (H×W×D)	306 x 520 x 300 mm
Packing Dimensions (H×W×D)	690 x 575 x 380 mm
Weight	10.5Kg / each
Packing Weight	23.5 Kg

AVAILABLE COLORS

RK-L10B (standard color)

RK-L10W (available on request)

Note: Speaker grill cloth mesh also available in white color.

SING EASY PACM8

CONFERENCE ROOM CEILING SPEAKER

The Sing Easy PACM8 is a flush-mounting 8-inch two-way Premium-sound Ceiling Loudspeaker which provides wide dispersion, high efficiency, high maximum output, ease-of-installation, and wide-range reproduction of music and voice. It is used in applications like hotels, conference halls, meeting rooms and high-end restaurants.

It consists of a baffle assembly, grille, back-can enclosure, 8-inch 60W coaxial two-way loudspeaker providing up to 120 W peak output. A circular metal grille is an integrated part of the front. The appearance and neutral white color has been selected to be unobtrusive in virtually all interiors.

FEATURES

- 8-inch coaxial two-way
- Excellent speech and music reproduction
- High sound pressure level
- Ideal for high-ceiling applications
- Flush mounted in ceilings
- Four-point clamp mechanism and integrated mounting legs enable quick ceiling installation

MOUNTING

The assembly is simply and quickly installed into a hole in the ceiling cavity secured by four-point clamp mechanism and integrated mounting legs. A circular template for marking a 270 mm diameter hole is included with the loudspeaker.
The 2-pole push spring type 2 binding post terminal provides quick cable connection.

SPECIFICATIONS

Electrical	
Rated Power	60 W
Frequency Range	85 Hz to 15K Hz
Sensitivity	89 ±3 dB
Rated Impedance	8 Ω
Connection	2-pole push spring type 2 binding post terminal
Mechanical	
Diameter	303 mm (11.92 in)
Maximum Depth	201 mm (7.91 in)
Mounting Cut-Out	270 mm (10.62 in)
LF Transducer	203.2 mm (8 in) Polypropylene cone
HF Transducer	25 mm (1 in) Polymer dome tweeter
Material	
Baffle	ABS
Grille	Powder coated steel
Net Weight	3.2 Kg (7.05 lb)
Environmental	
Operating Temperature	-25 ºC to +55 ºC (-13 ºF to +131 ºF)
Storage Temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)
Relative Humidity	<95%

SING EASY PL-S
SUBWOOFER SPEAKER

The Sing Easy PL-S1x Series is a system designed to add powerful subwoofer output to Sing Easy's full-range speakers. Equipped with a newly designed 12", 15" or 18" high-power driver unit, it is the best low-frequency supplement for full-range speakers. When the sound reinforcement system needs to increase the power reserve and expand the low frequency of the system, the PL-S1x Series is your ideal choice.

PL-S1x Series is one of the best choices for you to hold small performances, small KTV rooms, conferences, multi-purpose halls and other system projects!

SPECIFICATIONS

	PL-S12	PL-S15	PL-S18
Low Frequency Driver	Single 12" (310mm)	Single 15" (380mm)	Single 18" (460mm)
Frequency Response (-3 dB)	50Hz to 200Hz	45Hz-200Hz	40Hz-150Hz
Sensitivity (1w@1m)	99dB	101dB	102dB
Nominal Impedance	8 ohms		
Power Ratings	Continuous 500 W Program 1000 W Peak 2000 W	Continuous 500 W Program 1000 W Peak 2000 W	Continuous 600 W Program 1200 W Peak 2400 W
SPL Output	120dB	125dB	130dB
Input Connectors	2 × Speakon NL4MP		
Dimensions (H×W×D)	460 × 500 × 560 mm	570 × 480 × 570 mm	650 × 450 × 630 mm

SING EASY TL

PASSIVE WOODEN COLUMN LOUDSPEAKER

Sing Easy TL Series are specially developed for every kind of sound installation. With a very fashionable design, this range of loudspeakers fit with every architectural structure.

The Sing Easy TL44 and TL49 are a cost-effective-high-quality column speaker, in a wooden cabinet and house four or nine 4-inch loudspeakers which generate a frequency bandwidth response 120-20kHz.

These stylish 8-ohm loudspeakers with an incredibly dynamic and complete sound are a well-suited for medium-sized mainly speech applications where clear, uniformly dispersed sound that is audible at a distance is essential, such as conference centers, houses of worship or venues with highly reflective interior surfaces and at the same time, in combination with any Sing Easy subwoofer, an optimized music reproduction of the full range.

MAIN APPLICATIONS

- Public address installation
- Place of worship
- Convention centers
- Hotels
- Outdoor music and speech use

SPECIFICATIONS

	TL44	TL49
Full-Range Frequency Driver	4 ×4" (10.16 mm)	9 ×4" (10.16 mm)
Frequency Response (–3 dB)	1200Hz to 20kHz	120Hz to 20kHz
Sensitivity (1w@1m)	96dB	98dB
Nominal Impedance	8 ohms	
Power Ratings	Continuous 240 W / Peak 960 W	Continuous 540 W / Peak 2160 W
SPL Output	122dB	122dB
Mounting Methods	Integral pole mount socket	
Input Connectors	1 × NL4 connectors	
Dimensions (H × W × D)	540 × 140 × 170 mm	1170 × 140 × 170 mm

SING EASY PA-L1x
15" POWERED LOUDSPEAKER SYSTEM

The PA-L15 is bi-amplified using two dedicated high resonance digital amplifiers, featuring outstanding efficiency, with each amp delivering up to 1600 Watts (LF) and 400 Watts (HF) under 8 ohms.

Each speaker channel is under control by a powerful 64-bit digital processing unit. Each of these on-board DSP units includes a module dedicated to managing core system parameters including system EQ, time alignment between sections, and limiting. This level of control makes the PA-L15 fully protected and able to operate to the full extent of its abilities.

High-power Class D amplifier

Loaded with up to 2,000 watts of Class D power, the PA-L15 is a beast. It delivers up to an impressive 129dB SPL, so go ahead and crank it up as the PA-L15 can take it. Enjoy maximum power, along with stable, worry-free operation, thanks to a universal switching-mode power supply. Beyond that, this amp was optimized to match the PA-L15's transducers, ensuring top-tier sound quality.

Power, and Performance

The PA-L15 offers superb clarity and best-in-class SPL performance. This 2-way bi-amped PA speaker boasts a high-power up to 2,000-watt Class D amplifier and the widest 40 Hz to 20 kHz frequency range, and it can tackle any application you throw at it. Sophisticated DSP processing yields high-resolution sound with super-low latency, while an intuitive IPS LCD makes dialing in your settings a piece of cake. The PA-L15 employs a lightweight yet durable plywood cabinet with a premium-grade German polyurea coating.

FEATURES

- 2-way powered loudspeaker with 1.73" (44mm) HF and 15" (380mm) LF drivers
- Boasts a high-power up to 2,000-watt Class D amplifier and widest 40Hz-20kHz frequency range
- Intuitive 1.4" (35.56mm) IPS LCD screen for quick settings and monitoring
- Large dynamic high-performance woofer for high-power capacity and very lightweight
- 90° x 70° coverage pattern for even and smooth response on and off-axis
- Advanced DSP tuning employs a combination of FIR filtering and corrective EQ to minimize phase distortion
- Precision-engineered crossover for optimal power response and performance in the vocal midrange region
- Single-position pole socket for applications requiring pole mounting
- DSP protection safeguards your power supply, power amplifiers, and transducers against damage
- Optimized factory presets and an intuitive IPS screen makes operation easy
- Universal switching-mode power supply offers maximum power, along with stable, worry-free operation
- Attractive 16-gauge protective screen-backed steel grille
- Lightweight yet durable 15mm plywood cabinet with a premium-grade German polyurea coating

LOUDSPEAKER PROCESSING

Crossover	Multiple filter types (Butterworth, Linkwitz-Riley, Bessel)
Delay	120ms (input) / 20ms (output)
Control and monitoring interface	Full configuration and real-time monitoring via PC

AUDIO PERFORMANCE

THD + N 20Hz-20kHz for 1W	<0.05%
Input impedance	Balanced > 10 kΩ
Processing	64-bit floating-point processing resolution
A to D conversion	24-bit
Internal sample rate	48 kHz

LED, CONNECTORS AND BUTTONS

Protection LED	Protect, Clip, and Signal
Intuitive LCD screen	1.4" (35.56 mm) IPS LCD
Input connectors (Analog)	1 x Male XLR (Pin 2+, Pin 3-), 1 x Female XLR (Pin 2+, Pin 3-)
Input connectors	2 x RJ45 etherCON
Mains connectors	2 x powerCON
Control	USB-B
Buttons	Power, volume, and rotary knob
Encoder	Adjust, Set

ACOUSTICAL SPECIFICATIONS

	PA-L10	PA-L12	PA-L15
Operating frequency range	45 Hz to 20 kHz	55Hz to 20kHz	40 Hz to 20 kHz
Number of ways		2	
Maximum SPL	125 dB	127 dB	129 dB
Horizontal coverage		90°	
Vertical coverage		70°	
Presets		99 user-definable presets	

TECHNICAL SPECIFICATION

Transducer (HF)	Single 1.73" (44 mm)	Single 1.73" (44 mm)	Single 1.73" (44 mm)
Transducer (LMF)	Single 10" (260 mm)	Single 12" (310 mm)	Single 15" (380 mm)
RMS capacity (HF)	100W @ 8Ω, Class-D	100W @ 8Ω, Class-D	100W @ 8Ω, Class-D
RMS capacity (LMF)	300W @ 8Ω, Class-D	300W @ 8Ω, Class-D	400W @ 4Ω, Class-D
Peak capacity (HF)	400W @ 8Ω, Class-D	400W @ 8Ω, Class-D	400W @ 8Ω, Class-D
Peak capacity (LMF)	1,200W @ 8Ω, Class-D	1,200W @ 8Ω, Class-D	1,600W @ 4Ω, Class-D
Enclosure type		Bass-reflex	
Crossover type		DSP	
Crossover frequencies		1.6 kHz	

PHYSICAL SPECIFICATION

Height	520 mm	600 mm	620 mm
Width	330 mm	380 mm	440 mm
Depth	350 mm	400 mm	420 mm
Weight	16 Kg	25 Kg	30 Kg
Riggings		M8 suspension points and integral pole mount socket	

SING EASY KM360

KARAOKE PROCESSOR AMPLIFIER

The Sing Easy KM360 is designed for small-club and home karaoke applications that demand sound quality and comprehensive processing features in an affordable, easy-to-use package.

KM360 amplifiers deliver unforgettable karaoke experiences, including echo, reverb and EQ, with feedback protection. Sing Easy products features top-grade components and materials and robust, high-efficient 400-watt two-channel Class D amplification.

FEATURES

- High-performance 32-bit DSP and A/D and D/A Converter, 24 bit, 48kHz HD Audio processing
- High-efficiency 360-watt, two channels Class D amplifier
- Four levels of AFE (Automatic Feedback Elimination) technology
- Large TFT display for easy reading
- Two RCA inputs and one optical input
- Bluetooth and USB inputs offer flexible music connectivity
- Independent microphone volume controls
- Bass, mid, and treble EQ for music and microphone inputs
- USB port on the front panel for MP3 playback

SPECIFICATIONS

	KM360
Channels	2
Stereo, 8Ω per channel	360W
Stereo, 4Ω per channel	540W
Frequency Response	20 Hz - 30k Hz (± 1.5 dB)
Signal to Noise Ratio	≥ 95dB
Damping Factor	> 240
Total Harmonic Distortion	≤0.2% at 1kHz
Inputs	MIC1, MIC2, AUX1, AUX2, and Optical
Outputs	Rec Out, Center, Sub and HDMI-ARC
Power Requirements	AC 220V ± 10% 50-60Hz
Power Consumption	1080W
Built-in Protections	Soft Start, Short Circuit, Limiter, DC Fault, AC Line Fuse, and Thermal Cutout
Net weight	13Kg
Dimensions (W x H x D)	430×90×260mm
Packing (W x H x D)	530×145×400mm

SING EASY KAW

ALL-IN-ONE KARAOKE PROCESSOR AMPLIFIER

The Sing Easy KAW Series is designed for small-club and smart-home karaoke applications that demand sound quality and comprehensive processing features in an affordable, easy-to-use package.

KAW Series is a high-efficiency two-channel Class D amplifier which delivers unforgettable karaoke experiences including pitch/key shift, echo, reverb and EQ and feedback protection.

Sing Easy products features top-grade components and materials that are robust.

FEATURES

- High-performance 32-bit DSP and A/D and D/A Converter, 24 bit, 48kHz HD Audio processing
- High-efficiency 450-watt and 650-watt, two channels Class D amplifier
- Four levels of AFE (Automatic Feedback Elimination) technology
- Large TFT display for intuitive operation and settings information
- Two RCA analog audio input, optical audio input, Bluetooth, USB and Quad HDMI inputs and Audio Return Channel (ARC) function
- Two separate microphone input channels
- 10-band PEQ for audio inputs & 7-band PEQ for microphone inputs
- Six output channels: Right, Left, Centre, Sub, Surround Right and Surround Left
- Dance/Sing mode for manual/automatic subwoofer management
- 12 custom presets
- USB port on the front panel for MP3 playback
- Remote controllable via DB9 RS232 communication port

SPECIFICATIONS

	KAW450	KAW650
Channels	2	2
Stereo, 8Ω per channel	450W	650W
Frequency Response	20Hz - 20kHz (± 1.5 dB)	
Signal-to-Noise Ratio	>98dB	
Damping Factor	>300	
Total Harmonic Distortion	≤0.05% at 1kHz	
Dynamic Range	ADC 105dB / DAC 103dB	
Wireless Microphone Distance	>30m	
Bluetooth Distance	>10m	
Remote Control Distance	>8m	
Feedback Suppression Levels	4	
Video Inputs / Outputs	In: 4 x HDMI 2.0 / Out: Audio Return Channel (ARC)	
Audio Inputs / Outputs	VOD, AUX and Optical / 5.1 Channel Output	
Maximum Input Level	Music: 3Vrms/8dBV / Mic: 180mVrms/-15dBV	
Speaker Outputs	2 x Binding Post and 2 x NL4 Male	
Maximum Output Level	56Vrms/8Ω	69Vrms/8Ω
Wireless Modulation	Wideband FM	
Wireless Frequency Ranges	650 to 680.1 MHz (470 to 960 MHz available on custom order)	
Wireless Microphone Distortion	0.03%	
Wireless Power Requirements	3V (2 AA size 1.5 V batteries)	
Wireless Operating Time	Approx. 6 hours	
Infrared Receiver Carrier	Frequency: 38 KHz	
Infrared Receiver Format	NEC	
Computer Connection	USB 2.0	
Power Requirements	AC 220V ± 10% 50Hz	
Power Consumption	520W	800W
Net Weight	13Kg	14Kg
Shipping Weight	17Kg	19Kg
Dimensions (W x H x D)	429 × 102 × 386mm	

SING EASY KAV

KARAOKE A/V PROCESSOR AMPLIFIER

The Sing Easy KAV Series is designed for small-club and smart-home karaoke applications that demand sound quality and comprehensive processing features in an affordable, easy-to-use package.

KAV Series is a high-efficiency two-channel Class D amplifier which delivers unforgettable karaoke experiences including pitch/key shift, echo, reverb and EQ and feedback protection.

Sing Easy products features top-grade components and materials that are robust.

FEATURES

- High-performance 32-bit DSP and A/D and D/A Converter, 24 bit, 48kHz HD Audio processing
- High-efficiency 450-watt and 650-watt, two channels Class D amplifier
- Four levels of AFE (Automatic Feedback Elimination) technology
- Large TFT display for intuitive operation and settings information
- Two RCA analog audio input, optical audio input, Bluetooth, USB and Quad HDMI inputs and Audio Return Channel (ARC) function
- Two separate microphone input channels
- 10-band PEQ for audio inputs & 7-band PEQ for microphone inputs
- Six output channels: Right, Left, Centre, Sub, Surround Right and Surround Left
- Dance/Sing mode for manual/automatic subwoofer management
- Password viable for front panel lock
- 12 custom presets
- Independent control of Echo and Reverb
- USB port on the front panel for MP3 playback
- Remote controllable via DB9 RS232 communication port

SPECIFICATIONS

	KAV450	KAV650
Channels	2	2
Stereo, 8Ω per channel	450W	650W
Frequency Response	20Hz - 20kHz (± 1.5 dB)	
Signal-to-Noise Ratio	>98dB	
Damping Factor	>300	
Total Harmonic Distortion	≤0.05% at 1kHz	
Dynamic Range	ADC 105dB / DAC 103dB	
Wireless Microphone Distance	>30m	
Bluetooth Distance	>10m	
Remote Control Distance	>8m	
Feedback Suppression Levels	4	
Video Inputs / Outputs	In: 4 x HDMI 2.0 / Out: Audio Return Channel (ARC)	
Audio Inputs / Outputs	VOD, AUX and Optical / 5.1 Channel Output	
Maximum Input Level	Music: 3Vrms/8dBV / Mic: 180mVrms/-15dBV	
Speaker Outputs	2 x Binding Post and 2 x NL4 Male	
Maximum Output Level	56Vrms/8Ω	69Vrms/8Ω
Infrared Receiver Carrier	Frequency: 38 KHz	
Infrared Receiver Format	NEC	
Computer Connection	USB 2.0	
Power Requirements	AC 220V ± 10% 50Hz	
Power Consumption	520W	800W
Net Weight	13Kg	14Kg
Shipping Weight	17Kg	19Kg
Dimensions (W x H x D)	429 × 102 × 386mm	

SING EASY KA

KARAOKE PROCESSOR AMPLIFIER

The Sing Easy KA Series is designed for small-club and smart-home karaoke applications that demand sound quality and comprehensive processing features in an affordable, easy-to-use package.

KA Series amplifiers deliver unforgettable karaoke experiences, including echo, reverb and EQ, with feedback protection. Sing Easy products features top-grade components and materials and robust, efficient two-channel Class D amplification.

FEATURES

- High-performance 32-bit DSP and A/D and D/A Converter, 24 bit, 48kHz HD Audio processing
- Up to High-efficiency 800-watt, two channels Class D amplifier
- Four levels of AFE (Automatic Feedback Elimination) technology
- Large TFT display for settings information
- Two RCA inputs and one optical input
- Bluetooth and USB inputs offer flexible music connectivity
- Independent microphone volume controls
- Bass, mid, and treble EQ for music and microphone inputs
- USB port on the front panel for MP3 playback

SPECIFICATIONS

	KA400	KA600	KA800
Channels	2	2	2
Stereo, 8Ω per channel	400W	600W	800W
Stereo, 4Ω per channel	600W	900W	1200W
Frequency Response	Music: 20 Hz - 20k Hz (± 2 dB)		
	Mic: 40 Hz - 18k Hz (± 2 dB)		
Signal to Noise Ratio	95dB		
Damping Factor	>300		
Total Harmonic Distortion	Music: ≤0.5% at 1kHz		
	Mic: ≤1% at 1kHz		
Crossover Modes	Music: Bass (100Hz), Mid (1kHz) and Treble (10kHz)		
	Mic: Bass (100Hz), Mid (1kHz) and Treble (10kHz)		
Inputs	BGM, AUX, Coaxial and Optical		
Outputs	Pre Out and Rec Out		
Power Requirements	AC 220V ± 10% 50-60Hz		
Power Consumption	1080W	1800W	2400W
Net weight	13Kg	14.5Kg	16Kg
Dimensions (W x H x D)	483×90×290mm		
Packing (W x H x D)	530×145×400mm		

SING EASY PA

PUBLIC ANNOUNCEMENT SYSTEM

The Sing Easy PA Series is a 2U mixer PA amplifier that gives your entertainment or PA system a boost! Provides convenient 3 microphone inputs, 2 AUX inputs and speaker control with 100V, 70V, 16 ohm, 8 ohm, and 4 ohm speaker outputs, supporting speakers with 4 to 16 ohm impedance

The PA Series amplifier brings more than just basic functionality, reliability and great value to the range for a variety of commercial and industrial installations.

Volume control over MIC1 to MIC3, AUX1 and AUX2, master & overall treble/bass controls are provided.

FEATURES

- 2U aluminum oxide black brushed panel
- Two analog auxiliary inputs
- Three microphone inputs
- Master volume and independent input channel volume control
- Independently adjustable treble and bass
- Microphone override attenuation
- Five-unit LED level display
- 100V, 70V, 4Ω, 8Ω, and 16Ω compatibility
- Double-sided SMT circuit

SPECIFICATIONS

	PA350	PA500	PA650
Wattage	350W	500W	650W
Speaker Outputs	4 to 16 ohm, 70V and 100V		
Frequency Response	60 Hz - 15k Hz (± 3 dB)		
Total Harmonic Distortion	<0.5% at 1kHz, 1/3 of the rated output power		
Signal to Noise Ratio	Line: 85dB / MIC: >72 dB		
Mic Inputs	MIC1, MIC2 and MIC3: 600 ohm 10-15 mV, unbalanced		
AUX Inputs	AUX1 and AUX2: 10k ohm 200-470 mV, unbalanced		
Tone Adjustment Range	Bass: 100 Hz (± 10 dB) and Treble: 12k Hz (± 10 dB)		
Power Protection	8A AC fuse, short circuit and over temperature		
Power Requirements	AC 220V ± 10% 50-60Hz		
Power Consumption	485W	675W	875W
Net weight	14Kg	16.5Kg	17.5Kg
Dimensions (W x H x D)	483 × 89 × 366 mm		

SING EASY PACB

COAXIAL CEILING LOUDSPEAKER

The Sing Easy PACB8 is a flush-mounting 8-inch two-way Premium-sound Ceiling Loudspeaker which provides wide dispersion, high efficiency, high maximum output, ease-of-installation, and wide-range reproduction of music and voice. It is used in applications like shops, department stores, schools, offices, sports halls, hotels and restaurants.

It consists of a baffle assembly, grille, back-can enclosure, 8-inch 40W coaxial two-way loudspeaker and internal output-power matching transformer. A circular metal grille is an integrated part of the front. The appearance and neutral white color have been selected to be unobtrusive in virtually all interiors.

FEATURES

- 8-inch coaxial two-way
- Excellent speech and music reproduction
- High sound pressure level
- Ideal for high-ceiling applications
- Flush mounted in ceilings
- Four-point clamp mechanism and integrated mounting legs enable quick ceiling installation

MOUNTING

The assembly is simply and quickly installed into a hole in the ceiling cavity secured by four-point clamp mechanism and integrated mounting legs. A circular template for marking a 240 mm diameter hole is included with the loudspeaker.
The 2-pole push spring type 2 binding post terminal provides quick cable connection.

SPECIFICATIONS

	PACB5	PACB6	PACB8
Electrical			
Rated Power	2.5 W, 5 W, 10 W, 20 W	3.8 W, 7.5 W, 15 W, 30 W	5 W, 10 W, 20 W, 40 W
Frequency Range	100 Hz to 20K Hz	90 Hz to 20K Hz	80 Hz to 20K Hz
Sensitivity	89 ±3 dB	92 ±3 dB	96 ±3 dB
Rated Voltage	8 Ω, 70 V or 100 V		
Connection	2-pole push spring type 2 binding post terminal		
Mechanical			
Diameter	203 mm (7.99 in)	230 mm (9.05 in)	270 mm (10.62 in)
Maximum Depth	150 mm (5.90 in)	155 mm (6.10 in)	190 mm (7.48 in)
Mounting Cut-Out	170 mm (6.69 in)	200 mm (7.87 in)	240 mm (9.44 in)
LF Transducer	127 mm (5 in) Polypropylene cone	152.4 mm (6 in) Polypropylene cone	203.2 mm (8 in) Polypropylene cone
HF Transducer	25 mm (1 in) Polymer dome tweeter	25 mm (1 in) Polymer dome tweeter	25 mm (1 in) Polymer dome tweeter
Material			
Baffle	ABS		
Grille	Powder coated steel		
Net weight	1.7 Kg (3.74 lb)	2.2 Kg (4.85 lb)	3.1 Kg (6.83 lb)
Environmental			
Operating Temperature	25 ºC to +55 ºC (-13 ºF to +131 ºF)		
Storage Temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)		
Relative Humidity	<95%		

SING EASY PACG

GENERAL PURPOSE CEILING LOUDSPEAKER

The Sing Easy PACG8 is a general purpose, 10 W, cost-effective ceiling loudspeaker with clamp mounts for easy installation.

An economic flushing-mounting ceiling loudspeaker is available for general purpose applications. This full range loudspeaker is suitable for both speech and music reproduction in shops, department stores, schools, offices, sports halls, hotels and restaurants.

The speaker assembly consists of a single piece, 10W dual cone loudspeaker and frame, with a 100 V, matching transformer mounted on the back. A circular metal grille is an integrated part of the front. The appearance and neutral white color have been selected to be unobtrusive in virtually all interiors.

FEATURES

- Suitable for speech and music reproduction
- Flush-mounting in ceiling cavity
- Easy to install
- Simple power setting
- Unobtrusive in virtually all interiors

MOUNTING

The assembly is simply and quickly installed into a hole in the ceiling cavity secured by two integral spring-loaded ceiling locking clamps. A circular template for marking a 205 mm diameter hole is included with the loudspeaker.

Three wires on the matching transformer (primary) provide for selection of nominal full-power or half-power radiation.

SPECIFICATIONS

	PACG6	PACG8
Electrical		
Rated Power	3 W or 6 W	5 W or 10 W
Frequency Range	100 Hz to 15K Hz	100 Hz to 15K Hz
Sensitivity	93 ±3 dB	93 ±3 dB
Rated Voltage	70 V and 100 V	
Connection	3-pole screw terminal block	
Mechanical		
Diameter	188 mm (7.40 in)	228 mm (8.97 in)
Maximum depth	76 mm (2.99 in)	90 mm (3.54 in)
Mounting cut-out	170 mm (6.69 in)	205 mm (8.07 in)
Speaker diameter	152.4 mm (6 in)	203.2 mm (8 in)
Material		
Baffle	ABS	
Grille	Powder coated steel	
Net weight	0.7 Kg (1.54 lb)	1 kg (2.20 lb)
Environmental		
Operating temperature	-25 ºC to +55 ºC (-13 ºF to +131 ºF)	
Storage temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)	
Relative humidity	<95%	

SING EASY PACO

COAXIAL CEILING LOUDSPEAKER

The Sing Easy PACO8 is a flush-mounting ceiling loudspeaker for applications where extra power is required, such as rooms with high ceilings. It delivers a high sound pressure level and has a wide frequency range to ensure excellent speech intelligibility and good quality music reproduction. It is used in applications like shops, department stores, schools, offices, sports halls, hotels and restaurants.

The speaker assembly consists of a 8‑inch 40W coaxial two‑way loudspeaker and internal output‑power matching transformer. A circular metal grille is an integrated part of the front. The appearance and neutral white color has been selected to be unobtrusive in virtually all interiors.

FEATURES

- 8‑inch coaxial two‑way
- Excellent speech and music reproduction
- High sound pressure level
- Ideal for high-ceiling applications
- Flush mounted in ceilings
- Four-point clamp mechanism and integrated mounting legs enable quick ceiling installation

MOUNTING

The assembly is simply and quickly installed into a hole in the ceiling cavity secured by four-point clamp mechanism and integrated mounting legs. A circular template for marking a 240 mm diameter hole is included with the loudspeaker.

Three wires on the matching transformer (primary) provide for selection of nominal full-power or half-power radiation.

SPECIFICATIONS

	PACO5	PACO6	PACO8
Electrical			
Rated Power	10 W or 20 W	10 W or 20 W	20 W or 40 W
Frequency Range	100 Hz to 20K Hz	90 Hz to 20K Hz	60 Hz to 20K Hz
Sensitivity	88 ±3 dB	90 ±3 dB	93 ±3 dB
Rated Voltage	70 V and 100 V		
Connection	3-pole screw terminal block		
Mechanical			
Diameter	203 mm (7.99 in)	230 mm (9.05 in)	270 mm (10.62 in)
Maximum Depth	80 mm (3.14 in)	90 mm (3.54 in)	105 mm (4.13 in)
Mounting Cut-Out	170 mm (6.69 in)	200 mm (7.87 in)	240 mm (9.44 in)
LF Transducer	127 mm (5 in) Polypropylene cone	152.4 mm (6 in) Polypropylene cone	203.2 mm (8 in) Polypropylene cone
HF Transducer	25 mm (1 in) Polymer dome tweeter	25 mm (1 in) Polymer dome tweeter	25 mm (1 in) Polymer dome tweeter
Material			
Baffle	ABS		
Grille	Powder coated steel		
Net weight	1.25 Kg (2.75 lb)	1.6 Kg (3.52 lb)	2.1 Kg (4.62 lb)
Environmental			
Operating Temperature	-25 ºC to +55 ºC (-13 ºF to +131 ºF)		
Storage Temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)		
Relative Humidity	<95%		

SING EASY PSC840

8-CHANNEL POWER SEQUENCER

The Sing Easy PSC840 allows large and complex A/V systems to be safely powered on and off with a simple press of a button or turn of a key, even by nontechnical personnel.

Intelligent sequencing bidirectional communications between installed units enables a primary unit to control and sequence multiple secondary units, ensuring multizone electronic systems are powered on and off safely and dependably from a single control point across an entire installation.

In addition, the PSC840 offers robust control options, equipped with RS-232 ports and command sets for integration with control systems.

FEATURES

- 3 x 6mm² pure copper cable for up to 40A power plug for breaker switch connection
- Equipped with touchable 2.2 inch and pixel of 176*220 colorful screen
- Fashion design with brushed aluminum front panel
- The screen shows the current voltage, date, time, state of each channel(on/off)
- Users can boot up/shut down each channel independently
- Users can set the value of low voltage/overvoltage protection
- 8 channels output, delay time of booting up and shutting down of each channel can be set (range:1~999sec)
- A clock chip is built-in for users to set the date and time to boot up/shut down each channel.
- Users can operate the device by cascading, external controlling, or central controlling via RS232 and RS485ports
- Total rated output current:40A. Individual channel rated output current:15A
- Suitable for stages, home theatre, KTV rooms and conference rooms etc
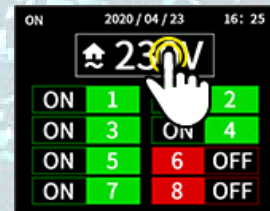
SPECIFICATIONS

Control method	Single touch, manual by channel, scheduled, remote with RS232 or RS485
Maximum Output Current	PSC840/OE 40A or PSC840/UK 13A
Supply Voltage	AC100-240V 10% 50~60Hz
Dimensions (L x W x H)	482*223*45mm
Net Weight	3.3Kg
Gross Weight	3.9Kg

SING EASY MTUHD0404DA
4X4 HDMI 2.0 MATRIX SWITCHER WITH AUDIO MATRIX

The Sing Easy MTUHD0404DA is a professional 4x4 HDMI 2.0 matrix switcher with an included audio matrix for switching 4 HDMI inputs to 4 HDMI outputs, designed for HDMI2.0 and HDCP2.3 compliant signals. The last two HDMI outputs feature a 4K to 1080p downscaling function. It also features 4 S/PDIF and 4 analog audio outputs for audio matrix functions. It features comprehensive EDID management and advanced HDCP handling to ensure maximum functionality with a wide range of video sources.

It not only supports bi-directional IR and RS232 extensions but also has IR, RS232, and TCP/IP control options.

FEATURES

- HDMI 2.0 Matrix Switcher with 4 HDMI inputs to 4 HDMI outputs
- Supports resolutions up to UltraHD 4K 60Hz (4:4:4) incl. HDR
- HDCP2.3 compliant
- Audio matrix - audio out can de-embedded from arbitrary input or output
- Individual volume adjustment on each analog output
- Supports 4K to 1080p down-scaling on up to 2 HDMI outputs
- AOC ready: HDMI provides 2.5W / 5V to power Active Optical Cables (AOC)
- HDMI output supports up to 5V / 500mA for Active Optical Cable (AOC) cables
- Controllable via front panel, IR, RS232 and TCP/IP

HIGHLIGHTS

Fully support Audio Switching
With audio matrix, the audio output can be de-embedded from arbitrary input or output source.
Individual volume adjustment on each L+R output.

2K FHD TO 4K UHD
It supports crystal clear 4K60 UHD display and backwards compatible with 4K30, 1080p/120Hz and 180p 3D/60hz.

Multiple Control
Push Buttons, IR remote, RS232, TCP/IP, and Web GUI control.
The front-panel LCD screen provides real-time I/O connection status

DIAGRAM
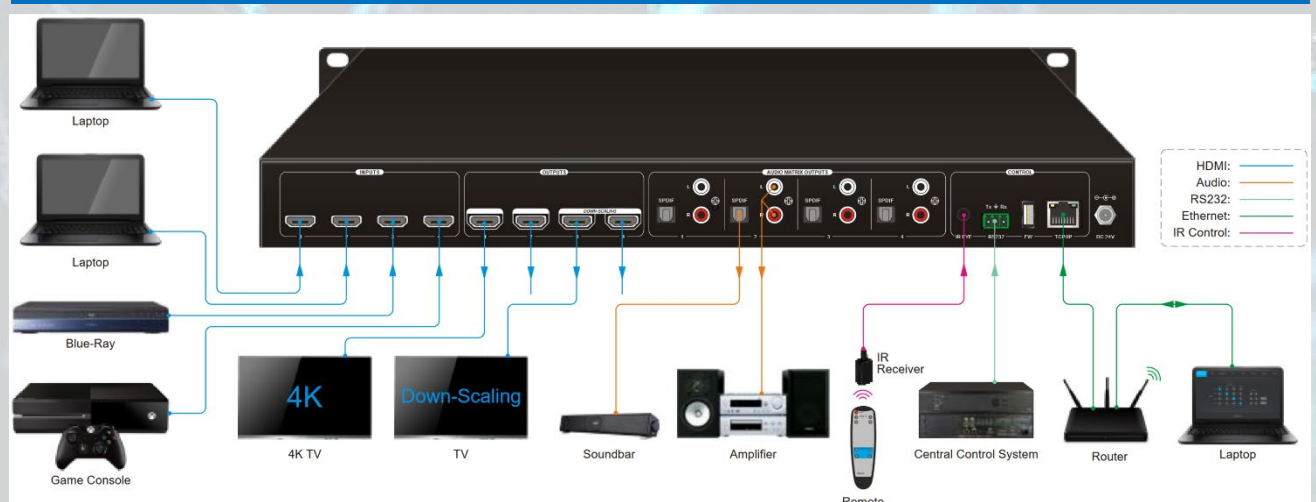
SPECIFICATIONS

TRANSMISSION DISTANCE

Transmission Distance	4K/60Hz/444 50m, 4K/60Hz/420 100m, 1080P 150m
Bandwidth	18Gbps

VIDEO INPUT

Video Input	(4) HDMI
Input Connector	(4) Type-A female HDMI
HDMI Input Resolution	Up to 4K@60Hz 4:4:4, HDR

VIDEO OUTPUT

Video Output	(4) HDMI
Output Connector	(4) Type-A female HDMI
HDMI Output Resolution	Up to 4K@60Hz 4:4:4, HDR10, and Dolby Vision
HDMI Output	Supports up to 5V500mA for AoC cable
HDMI Version	Up to 2.0
HDCP Version	Up to 2.3
HDMI Audio Signal	LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS: X™, and DTS-HD® Master Audio™ pass-through.

DIGITAL AUDIO OUTPUT

Output	(4) Digital SPDIF audio
Output Connector	(4) Toslink connectors
Digital SPDIF Audio Format	Supports PCM, Dolby Digital, DTS, DTS-HD
Frequency Response	20 Hz to 20 kHz, ±1dB
Max Output Level	±0.05dBFS
THD+N	< 0.05%, 20 Hz – 20 kHz bandwidth, 1 kHz sine at 0dBFS level (or max level)
SNR	> 90dB, 20Hz-20 kHz bandwidth
Crosstalk Isolation	< -70 dB, 10 kHz sine at 0dBFS level (or max level before clipping)

ANALOG AUDIO OUTPUT

Output	(4) Analog L/R Audio
Output Connector	(4) L&R (RCA)
Digital SPDIF Audio Format	PCM 2CH
Frequency Response	20 Hz to 20 kHz, ±1dB
Max Output Level	2.0Vrms ± 0.5dB. 2V = 16dB headroom above -10dBV (316 mV) nominal line level signal
THD+N	< 0.05%, 20 Hz – 20 kHz bandwidth, 1 kHz sine at 0dBFS level (or max level)
SNR	> 80dB, 20Hz-20 kHz bandwidth
Crosstalk Isolation	< -80 dB, 10 kHz sine at 0dBFS level (or max level before clipping)
L-R level deviation	< 0.05 dB, 1 kHz sine at 0dBFS level (or max level before clipping) < ± 0.5dB 20Hz – 20KHz
Output load capability	1k ohm and higher (supports 10x paralleled 10k ohm loads)

EXTERNAL CONTROL

Control port	(1) IR EYE, (1) RS232, (1) FIRMWARE, (1) TCP/IP
Control Connector	(1) 3.5mm jack, (1) 3-pin terminal block, (1) USB-A, (1) RJ45

MECHANICAL

Power Supply	Input: AC 100~240V, 50/60Hz and Output: 24V DC 1.25A
Power Consumption	18.3 W
Operation Temperature	-5°C to +55°C
Storage temperature	-25°C to +70°C
Relative Humidity	10% to 90%
Dimensions (W × H × D)	436.4 mm × 44 mm × 236 mm
Weight	2.6 Kg

SING EASY MT4K0808

8×8 HDMI MATRIX

Sing Easy MT4K0808 is a high-performance professional 8-input and 8-output HDMI matrix switching device with embedded intelligent control, which is used to switch any HDMI input signal to any HDMI output channel. The control method is extremely flexible, with long-life operation button panel, large-screen dot-matrix LCD screen displays various information, and provides a standard RS-232 communication interface, which is convenient for users to cooperate with various remote-control devices (such as Crestron, AMX, CREATOR, etc.).

FEATURES

- Connects 8 HDMI sources to any 8 HDMI displays
- HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible
- Supports computer and video resolutions up to 4K
- Support maximum resolutions at 4K@30Hz (3840×2160/30Hz) and 1080P@60Hz (1920×1080/60Hz)
- Supports long distance transmission at a distance up to 25 meters
- Multiple Control Methods, system management via front panel push buttons, IR remote, RS-232 control and Ethernet (optional)
- Support fast channel switching, one-to-one correspondence, and quick save and recall of scene modes
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to one remote control
- Selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens
- Power-off memory on-site protection function, automatically save the current scene state
- Simultaneous 3.5mm analogue and optical de-embedded audio outputs on HDMI port 8
- All-metal casing
- Firmware upgradable
- Rack mountable

SPECIFICATIONS

HDMI Inputs	8
HDMI Outputs	8
Video Interface Bandwidth	6.5GHz (-3dB) fully loaded
Maximum Supported Resolutions	1920×1080/60Hz 3840×2160/30Hz
Bit Clock Jitter	< 0.15 Tbit
Maximum Clock Frequency	< 165MHz
Input and Output Clock Phase Difference	<100PS
Video Input\Output Interface	HDMI 1.4b
Control Interface	RS232 In, RS232 Out, Ethernet (Optional), Infrared In and Infrared Sensor
MTBF	36,000 hours
Operating Temperature	-30° to +80°C
Operating Humidity	10% to 90%
Power Requirements	AC 220V ± 10% 50Hz
Net Weight	1.9Kg
Gross Weight	2.3Kg
Dimensions (W x H x D)	480 × 43 × 260 mm

SING EASY EXUHD150

150M HDBASET 18GB HDMI 2.0 EXTENDER KIT

The Sing Easy EXUHD150 18Gbps HDMI Extender can extend high-definition video/audio signal, RS-232, bi-directional IR up to 150 meters via a single CAT cable. It supports resolutions up to 4K2K@60Hz 4:4:4 18Gbps and HDCP 2.2. HDMI loop port is available on the transmitter and the receiver features a de-embedded L/R audio output. The PoC function means only one power adapter is required and can be placed at either end. Additionally, the extender also includes a two-way IR pass-through which allows for source and display control.

FEATURES

- HDMI 2.0b (18Gbps), HDCP 2.2 and DVI compliant
- Video resolutions up to 4K2K@50/60Hz (YUV444)
- 10bits HDR (High Dynamic Range) pass through
- Supports HDMI High Bit Rate (HBR) audio pass through
- Supports CEC bypass
- Optical audio supports LPCM 2CH, Dobly Digital 2/5.1CH, DTS 2/5.1CH
- 4K2K up to 120m, 1080p up to 150m
- Package includes TX and RX.

SPECIFICATIONS

TECHNICAL

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18 Gbps
Video Resolutions	4K2K 50/60Hz 4:4:4 4K2K 50/60Hz 4:2:2 4K2K 50/60Hz 4:2:0 4K2K 30Hz 4:4:4 1080p, 1080i, 720p, 720i, 480p, 480i All HDMI 3D TV formats All PC resolutions including 1920 × 1200
Color Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	10-bit, 12-bit
HDMI Audio Formats (Pass-through)	LPCM 2.0 / 2.1 / 5.1 / 6.1 / 7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus (DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
Audio LR Formats	PCM 2.0
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)

SPECIFICATIONS

CONNECTIONS

Transmitter	Inputs: 1x HDMI Type A [19-pin female] Outputs: 1x HDMI Type A [19-pin female] 1x HDBT OUT [RJ45, 8-pin female] Control: 1x IR IN [3.5mm Stereo Mini-jack] 1x IR OUT [3.5mm Stereo Mini-jack] 1x RS-232 [Phoenix jack] 1x SERVICE [Mini-USB, Update port]
Receiver	Inputs: 1x HDBT IN [RJ45, 8-pin female] Outputs: 1x HDMI Type A [19-pin female] 1x AUDIO OUT [3.5mm Stereo Mini-jack] Control: 1x IR IN [3.5mm Stereo Mini-jack] 1x IR OUT [3.5mm Stereo Mini-jack] 1x RS-232 [Phoenix jack] 1x SERVICE [Mini-USB, Update port]

MECHANICAL

Housing	Metal Enclosure
Color	Black
Power Supply	Input: AC100 to 240V 50/60Hz Output: DC 24V/1A
Power Consumption	24 W (Max)
Operation Temperature	32 to 104°F / 0 to 40°C
Storage temperature	-4 to 140°F / -20 to 60°C
Relative Humidity	20 to 90% RH (no condensation)
Dimensions (W × D × H)	140 mm × 65 mm × 18 mm
Weight	450g

TRANSMITTER

EXUHD150-TX

RECEIVER
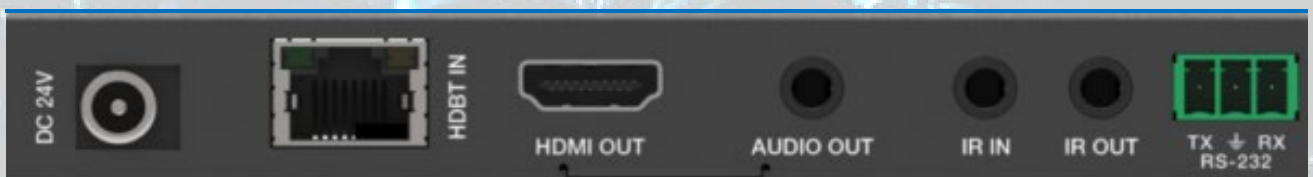
EXUHD150-RX

SING EASY EX4KIRKVM

4K HDMI IR KVM EXTENDER

The Sing Easy EX4KIRKVM is a HDMI Over Ethernet is based on TCP/IP standard. It transmits your HD display with the high resolutions up to 120 meters away from your HDMI or DVI-D source by using one CAT5e/6 cable. With the advantage of TCP/IP standard, you can extend your HD video to multiple displays by using an Ethernet Switch, providing greater flexibility and options when integrating several home theater components.

FEATURES

- The product target application is HDMI1.4 network cable extender, suitable for 4K 30 444 CAT6/CAT5E 1~100 meters self-adaptive, video loop out, audio extraction and embedding, 444-420 and down scaling processing. Product differentiation is reflected in low power consumption, high integration, long-short line balance and self-adaptation
- HDMI1.4 CAT5E/CAT6 Extender
- Support 4K 30 Hz 444 standard
- Flexible HDCP 2.2/1.4 support
- Two-way audio extraction or embedding
- Signal Extension: Up to 120m
- UHD/4K: Supports up to 4096x2160 or 3840x2160 24/25/30hz
- Mirrored Outputs: 2 HDMI Outputs
- HDR10: More life-like images through a greater range of luminance levels
- Deep Color Support: Up to UHD/4K 30Hz 4:4:4/12 bits or 60Hz 4:4:4/8 bit
- IR Bi-Directional control: Tx supports IR input via the included IR sensor and output via the included IR emitter
- Soft-Codec & KVM Enabling System: USB Host + Device ports on Tx and Rx create connectivity hub for professional USB cameras and microphones, audio DSP, keyboard, mouse, or touchscreen display with connected computer
- ARC: Audio may be returned from the connected display or Rx unit and output on the external analog & digital outputs
- Surround Sound Audio: Dolby® TrueHD, Dolby® Digital Plus, Dolby Atmos®, and DTS-HD Master Audio™ multi-channel audio formats

SPECIFICATIONS

Distance (Resolution)	120 meters (4K × 2K@30Hz)
Maximum single link range	3840×2160, 1920×1080, 1080p
Output video	HDMI
Mouse/Keyboard Interface	USB
DTV/HDTV	4K/ 1080p/ 1080i/ 720p/ 576p/ 480p/ 576i/ 480i
Operating Temperature	0 to +70°C
Operating Humidity	10% to 85%RH (no condensation)
Storage Temperature	-10°C to +80°C
Storage Humidity	5% to 95%RH (no condensation)
External Power Supply	DC5V @ 1A
Power Consumption	5 Watt (Max)
Dimensions (W x D x H)	140 × 70 × 30 mm
Weight	Transmitter: 158 g / Receiver: 159 g
Packing Weight	744 g

SING EASY TM

TOUCH MONITOR

The Sing Easy TM Series is a touch monitor designed to be used with KTV players.

FEATURES

- Single-Touch Capacitive Touch Screen
- Aluminum Edge
- Protective Glass Front
- Easily extend the touch control using the built-in RJ45 interface
- Supports 99% of market KTV player brands
- Available in Black and White

SPECIFICATIONS

	TM215	TM24	TM27
Screen Size	21.5-inch (546.1 mm)	24-inch (609.6 mm)	27-inch (685.8 mm)
Aspect Ratio	16:9	16:9	16:9
Resolution	1920 × 1080 pixels	1920 × 1080 pixels	1920 × 1080 pixels
Viewing Angle	140°	140°	140°
Video Interface Type	D-SUB	D-SUB	D-SUB
Touch Type	Capacitive	Capacitive	Capacitive
Touch Points	Single-Touch	Single-Touch	Single-Touch
Touch Interface	RJ45	RJ45	RJ45
VESA Compatibility	100 mm × 100 mm	100 mm × 100 mm	100 mm × 100 mm
Operating Voltage	12V 4A	12V 4A	12V 4A
Dimensions (W x H x D)	521 × 313 × 46 mm	570 × 345 × 46 mm	TBC
Net Weight (screen only)	3.8Kg	TBC	TBC
Gross Weight	5.1Kg	TBC	TBC

MOUNTING TYPES

Floor-mount	Desktop stand	Embedded mount	Wall-mount
TMF	TMD	TME	TMW

SING EASY KSVP3

STATE-OF-ART ENTERTAINMENT CENTER

We have been committed to developing the traditional karaoke system, considering the needs of users, and making it a better and more humane karaoke form. After launching two commercial versions and receiving a large number of requests from customers for the home version, the team decided to develop a third-generation state-of-the-art entertainment system with new features for home users to enjoy any type of entertainment anytime, anywhere at home, such as singing, watching YouTube, Netflix, third-party IPTV services, listen to Spotify, Joox and QQ music, and even browse the web using Google Chrome from a single device. On top of the second-generation languages (English, Traditional Chinese, Simplified Chinese, Japanese, Korean, and Malay) we added Thai, Hindi, Burmese, Vietnamese, Filipino, Portuguese, Russian and Arabic as well as new features to the third-generation new user interface language enabling home users around the world to use the karaoke system in their native language.

FEATURES

- Artificial intelligence powered KTV generator
- Quick switch available 15 user interface languages
- Sing in Traditional Chinese, Simplified Chinese, English, Thai, Russian, Italian, French, etc
- Search songs by writing song native language no matter Japanese, Korean, Russian, Thai, etc
- Third-party value-added apk (GoTV and HDTV requires service subscriptions)
- Queue YouTube selections on the same Karaoke queue list

HIGHLIGHTS

Over 330,000 Songs
Discover a diverse range of more than 330,000 high-quality songs with original music videos & lyrics in multiple languages at Sing Easy via the cloud platform.

Weekly Updates
Experience the joy of singing along to the most recent hits with our ever-expanding song catalog and regular software updates automatically every week.
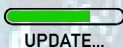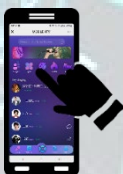
Remote Control
Simple and easy to use smartphone and tablet control: Just scan the QR Code to connect your smartphone or tablet to pick from a catalog songs and singers, while also being able to pause or skip songs, adjust the volume, etc.
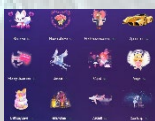
TV Screen Interaction
Send gifts, emojis, banners or even type in a message to show on the TV screen as well as choosing a female, male or children voice to read it loud for you. A very fascinating way to congratulate someone on their birthday or even to ask someone to marry you.
Check out the smartphone and table control for more information.

Sing Offline
Allows you to download your favorite songs and play them offline. You can store up to 100,000 songs on your KSPV3 and keep the party going even without an internet connection!

2 Years Manufacturer Warranty

24Hrs Customer Service
support@singeasy.com

Video Call Support for Customers

INTERFACE SNAPSHOTS
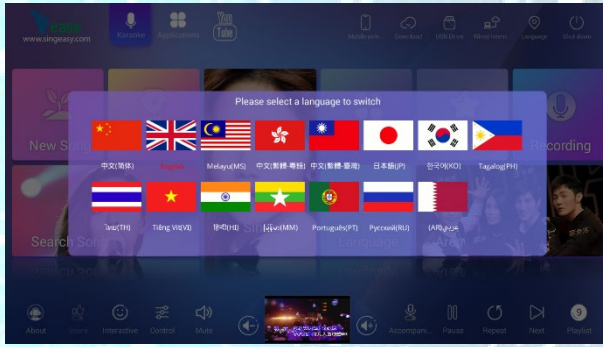
Multi-lingual GUI

Main menu
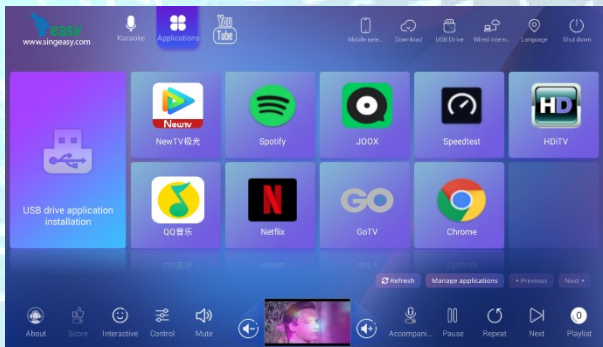
Pre-installed third-party apk support
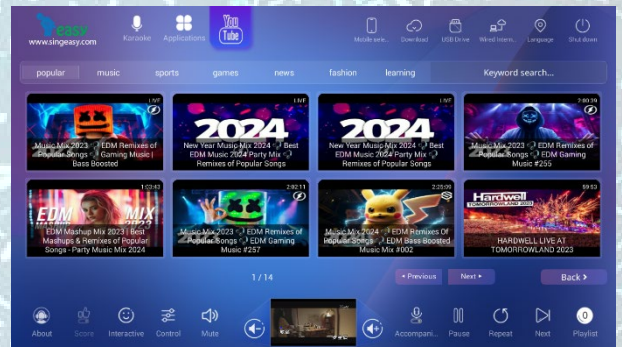
YouTube library

MULTILINGUAL USER INTERFACE

Traditional Chinese

Simplified Chinese

English

Portuguese

MULTILINGUAL USER INTERFACE

Japanese

Korean

Thai

Vietnamese

Malaysian

Filipino

Burmanese

Hindi

Russian

Arabic

www.singeasy.com

Write Traditional Chinese

Write Simplified Chinese

Write Japanese

Write Korean

Write Thai

Write Burmese

Write Russian

Write Hindi

Write Arabian

Apart from searching by typing the song name or singer name, we are the first on the market to launch a multi-language song search using an on-screen writing pad, allowing users to search for songs by writing in Traditional Chinese, Simplified Chinese, Japanese, Korean, Thai, Hindi, Burmese, Russian and Arabic.
(more languages are coming soon)

SMARTPHONE OR TABLET CONTROL
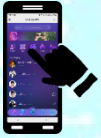
Remote Control

Simple and easy to use smartphone and tablet control: Just scan the QR Code to connect your smartphone or tablet to our AWS servers to remotely control your player, to pick a song from a catalog songs and singers, while also being able to pause or skip songs, adjust the volume, etc.

Simple song selection
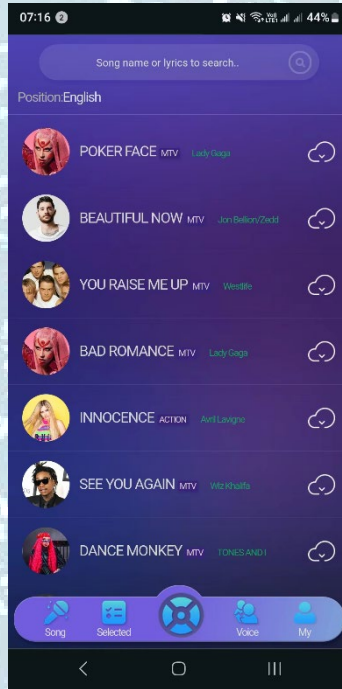
English songs
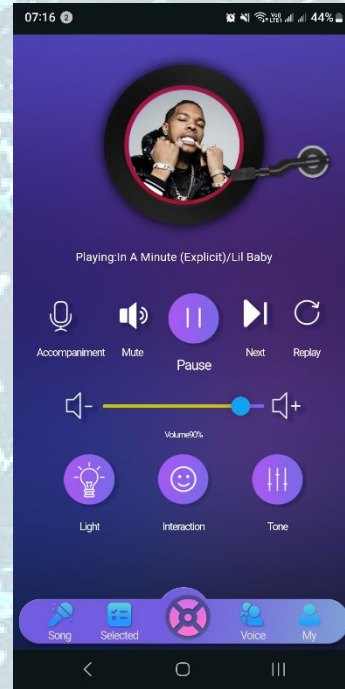
Playback control

SMARTPHONE OR TABLET CONTROL

TV Screen Interaction

Send gifts, emojis, banners or even type in a message to show on the TV screen as well as choosing a female, male or children voice to read it loud for you. A very fascinating way to congratulate someone on their birthday or even to ask someone to marry you.

Check out the smartphone and table control for more information.

Gifts

Emojis

Banners

www.singeasy.com
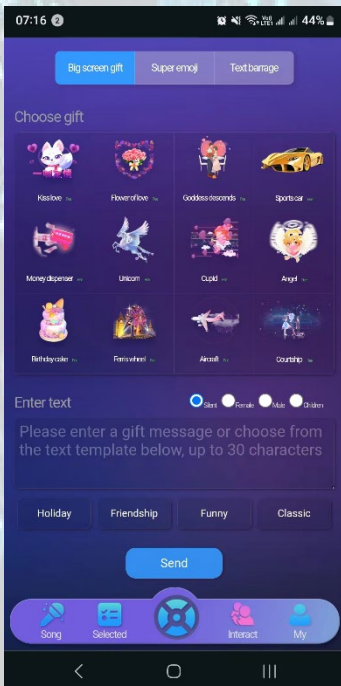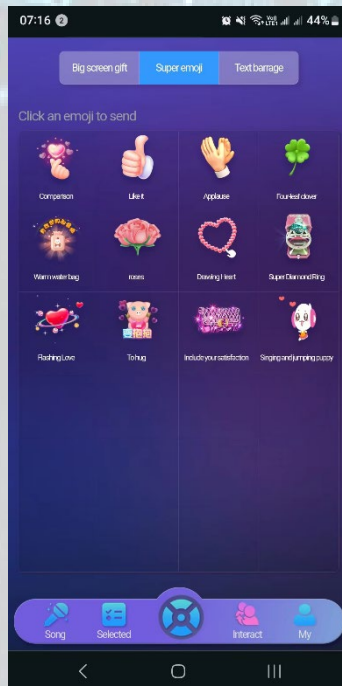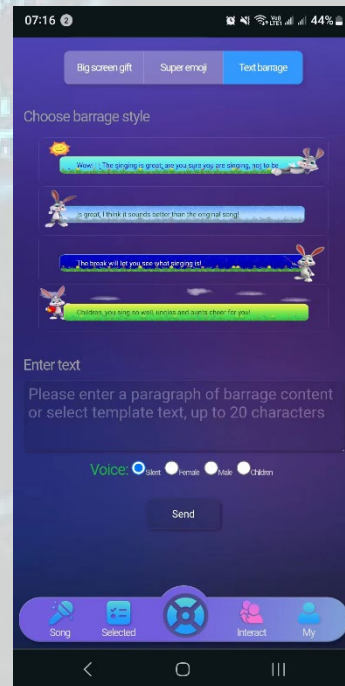
SONG LIBRARY INCLUDES MACAO SINGERS

First player in the market including Macao singers in the catalog.

OVER-THE-AIR UPDATES & SELF HEALTH CHECK
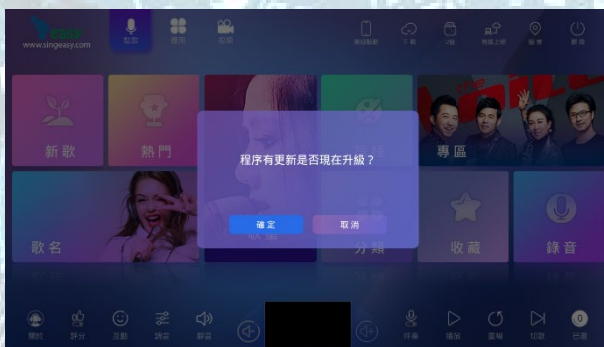
Program update over-the-air
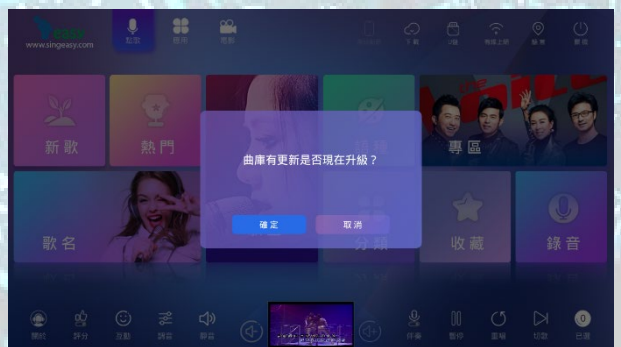
Song libraries update over-the-air
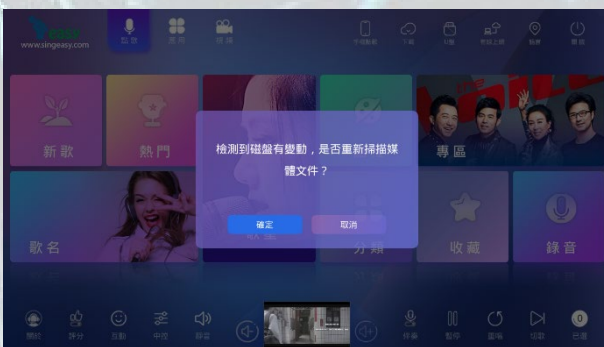
Auto Hard Disk Checkup and Recovery
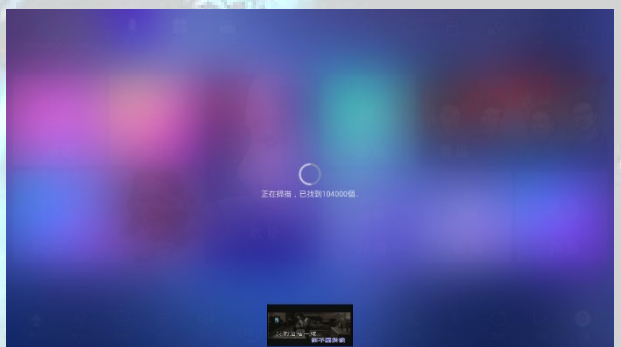
Local Songs Scanning and Song List Creation

AI KTV GENERATOR FEATURE (BETA)

Regardless of how old or how fresh the song is, the Sing Easy KSVP3 AI KTV Generator feature claims to be able to assist customers in singing their favorite song when it isn't in our music database.

FEATURES

- Easy-to-use
- Artificial Intelligence Powered
- Vocal Eliminator

BACK-END INTERFACE

Sing Easy users just need to select their song by scanning the QR code that is shown on the TV. At the top of the list, Sing Easy K+ will display the selected song that is available in the databank. Moreover, K+ will search through all songs that are available online and present a cloud including the words AI that are available for KTV songs that are generated by AI.

Simply click the AI-enabled cloud to choose the background video, then click OK. K+ will then instantly build an AI-generated KTV video with lyrics that will be online in a matter of minutes. Simultaneously, the K+ Vocal Eliminator AI technology smoothly removes vocals from audio and video files, enabling users to sing without the original vocalist's voice.

www.singeasy.com
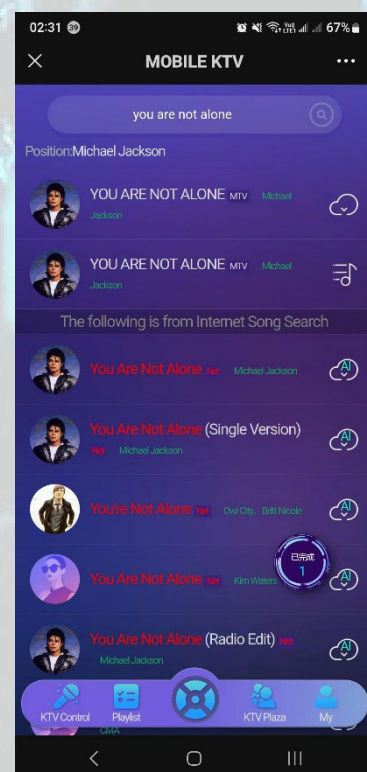
BACK-END INTERFACE
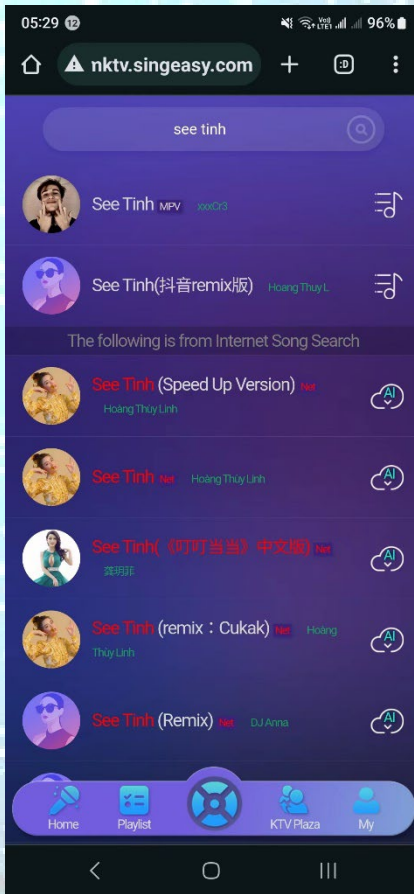
Type in the song name, at the top songs in the databank will be shown and at the bottom songs available for ai generator are listed
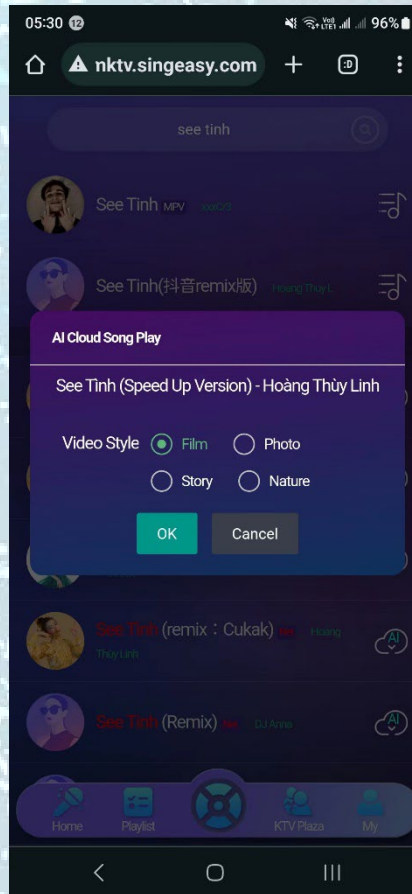
Select the video background
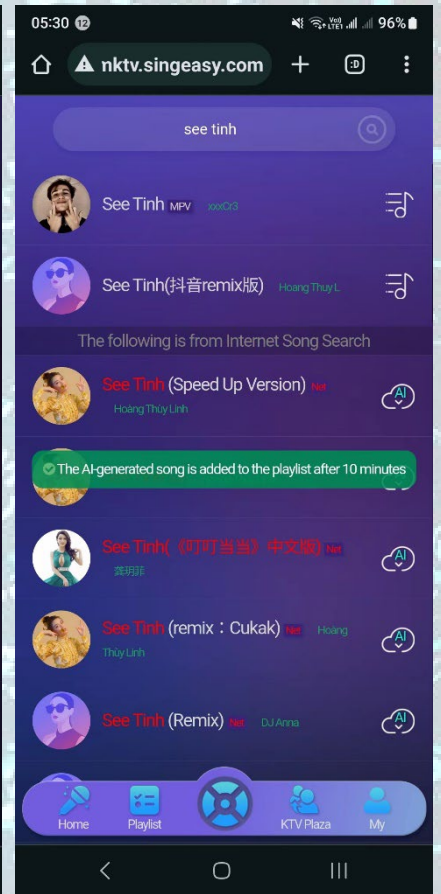
Song is sent to Sing Easy AI Generator, in less than 10 minutes song will be sent to the songs queue list

FRONT-END INTERFACE (TV SCREEN)
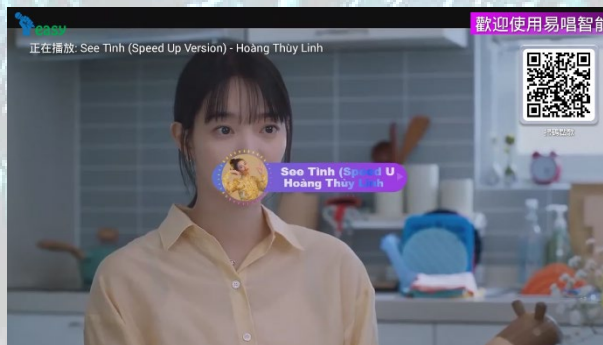
AI-Generated KTV Song Title

AI-Generated KTV Song w/ Lyrics

LUCKY DRAW FEATURE (FOR COMMERCIAL USERS)

The Sing Easy KSVP3 Lucky Draw Feature is freely available for commercial customers to generate excitement and engagement among customers.

BENEFITS

- Increased Engagement
- Boost in Sales
- Brand Awareness
- Customer Loyalty
- Data Collection
- Differentiation

FEATURES

- Back-end and front-end interfaces
- Define even description
- Pre-define 3, 4, 6, 8, 9, 10 or 12 treasure chests
- Lucky draw startup time
- Interval between each lucky draw
- Select draw type from reward, prize and punishment
- Add KTV terminals and define box codes per terminal
- Back-end is available in English, Traditional Chinese and Simplified Chinese

BACK-END INTERFACE
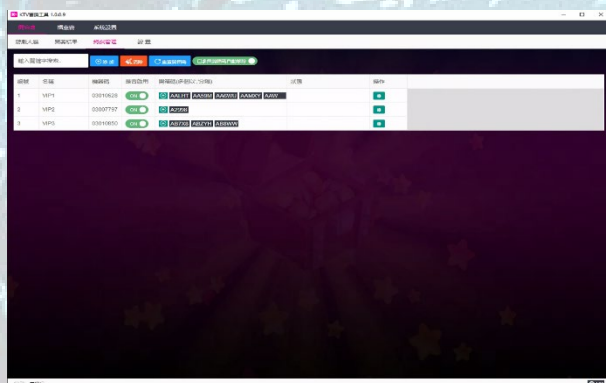
Add KTV terminals
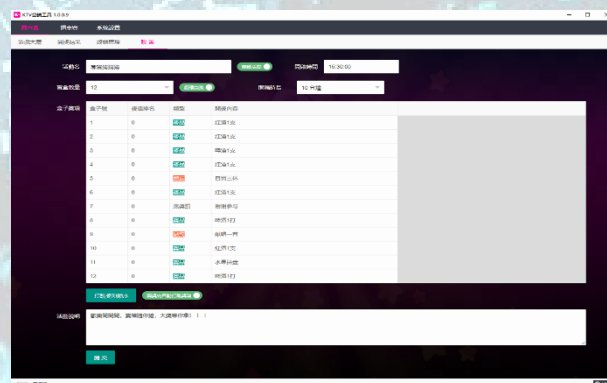
Setup lucky draw
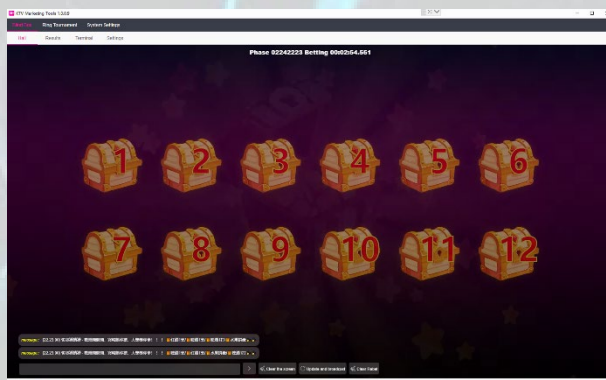
Lucky draw monitoring
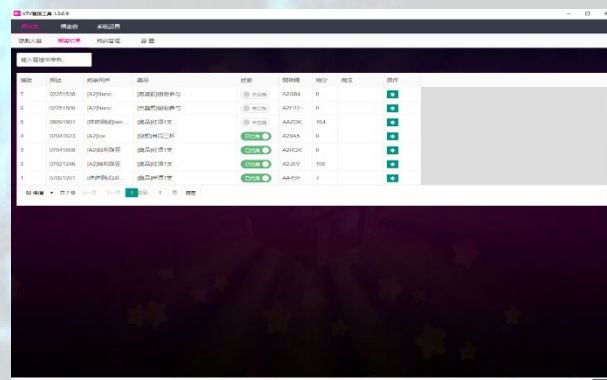
Lucky draw results

FRONT-END INTERFACE (TV SCREEN)

Lucky draw QR code appearance

Lucky draw QR code and prizes

QR code appearance

Lucky draw winner

FRONT-END INTERFACE (MOBILE PHONE)
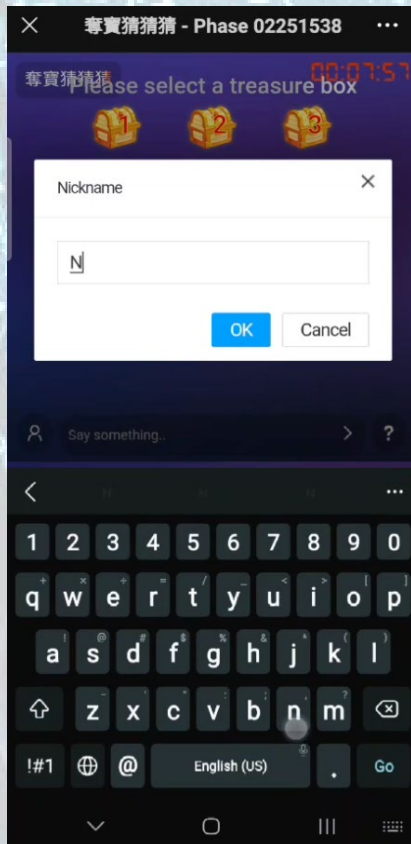
Enter name after scanning on screen QR code
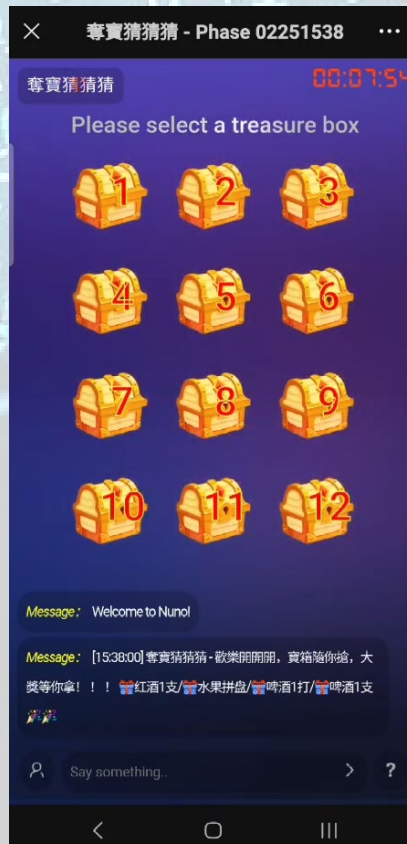
Select treasure chest
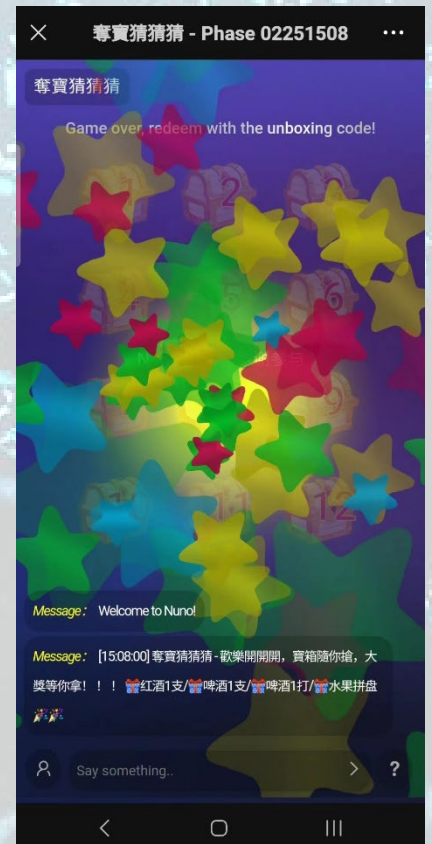
Winner announcement

www.singeasy.com

K+ POS (FOR COMMERCIAL USERS)

The Sing Easy K+ is a point-of-sales "POS" to be used together with KSVP3 karaoke appliance which is optionally available for commercial customers to manage the karaoke venue in a single system allowing customers to directly place F&B orders, call attendance or even settle the bill digitally.

Note: English snapshots will be available soon.

FEATURES

- Back-end and front-end are currently available in English, Traditional Chinese and Simplified Chinese
- Call attendant from your mobile phone
- Order F&B directly from your mobile phone
- Settle the bill digitally

BACK-END INTERFACE (MOBILE VERSION)

Manage bookings

Bookings report

Room status

BACK-END INTERFACE (MOBILE VERSION)
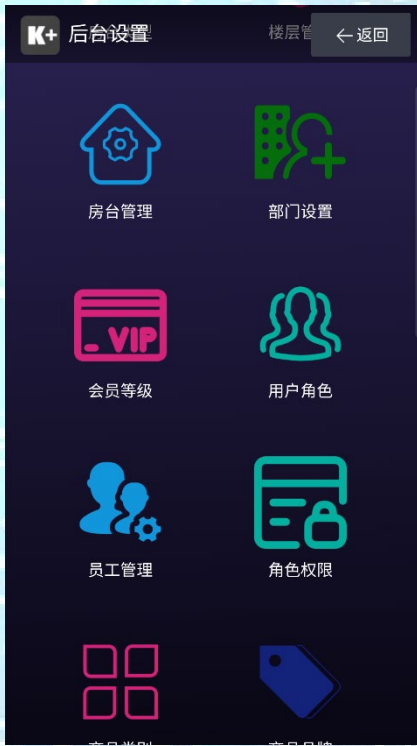
Back-end settings

Back-end settings

Back-end manager

Reports

Bill information

Song management

Login screen
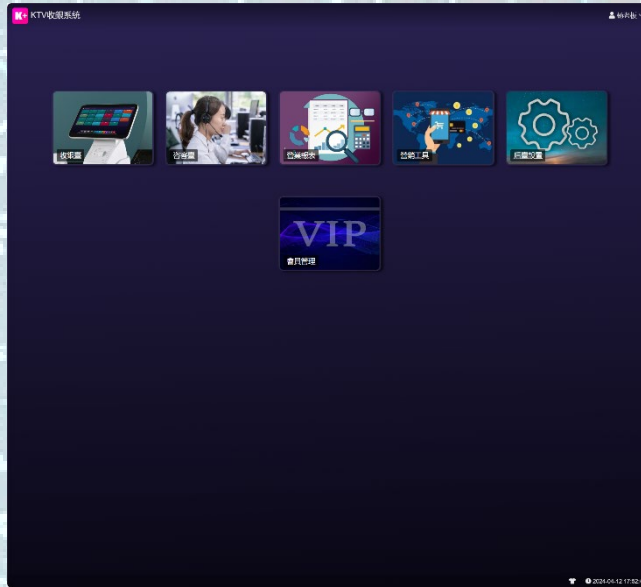
Main menu
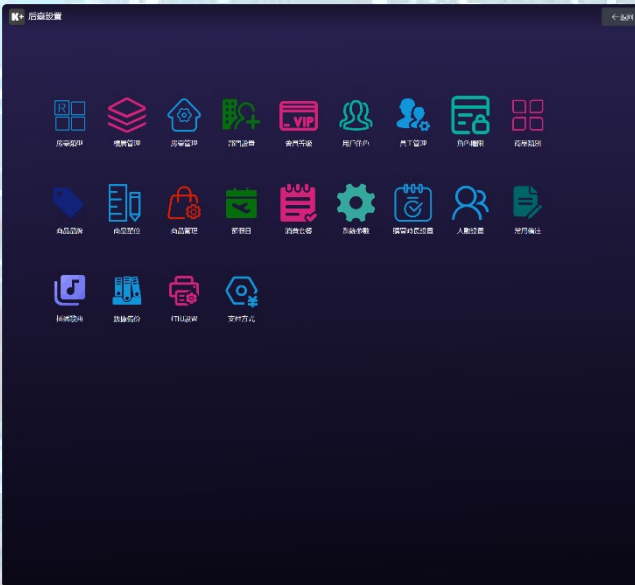
Settings screen
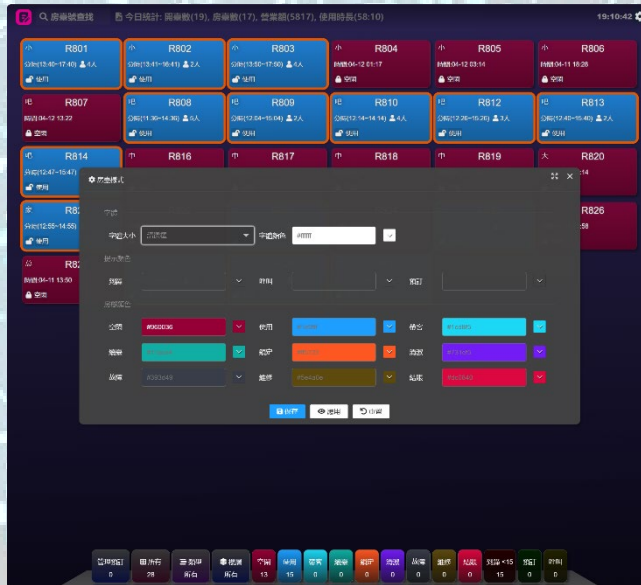
Change room border color
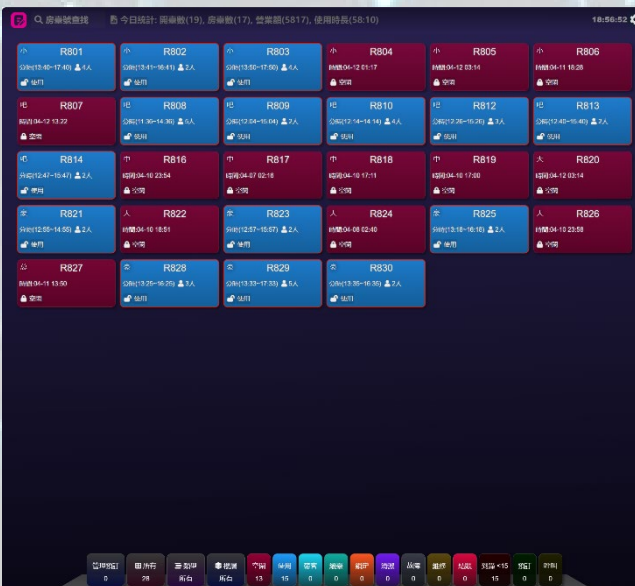
Rooms status
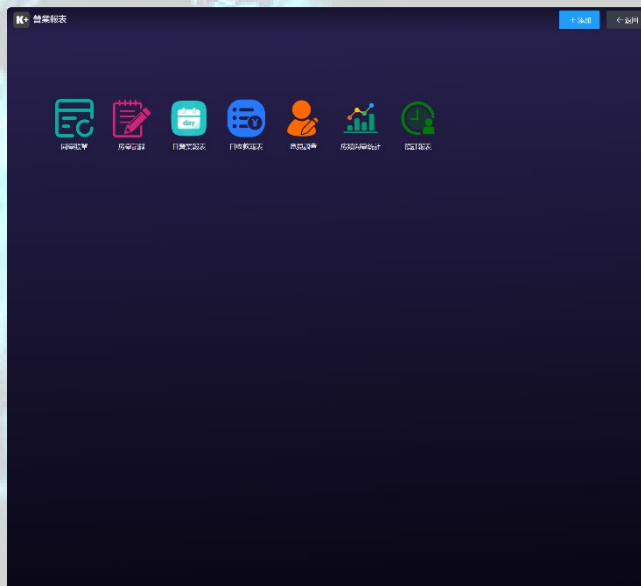
Reports

SCHEDULE LOCK FEATURE (FOR COMMERCIAL USERS)

The Sing Easy KSVP3 Schedule Lock Feature is optionally available for commercial customers to set the opening hours and prevent customers from singing overtime.

BENEFITS
- To be on time according to Government approved opening hours
- Avoid unnecessary staff OT claims

TECHNICAL SPECIFICATIONS

Electrical	
Video Outputs	1 x HDMI 2.0 1 x VGA
Audio Outputs	Stereo RCA, Coaxial and Optical
Audio Input	Stereo RCA Mic Return
USB Ports	2 x USB 2.0 1 x USB 3.0
COM Ports	2 x RJ45 1 x 3.5 mm
LAN Port	1 x RJ45 Gigabit Ethernet
Wi-Fi® Built in	Yes (2.4 GHz, 5 GHz)
Power Requirements	12 V DC at 4 A (supplied by external power supply)
Power Consumption	48 W
Mechanical	
Dimensions (W × H × D)	360 × 50 × 280 mm
Material	Aluminum
Net weight	3.1 Kg (6.83 lb)
Environmental	
Operating Temperature	-25 ºC to +55 ºC (-13 ºF to +131 ºF)
Storage Temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)
Relative Humidity	<95%

Note: The hardware specifications are subject to be changed without notice.
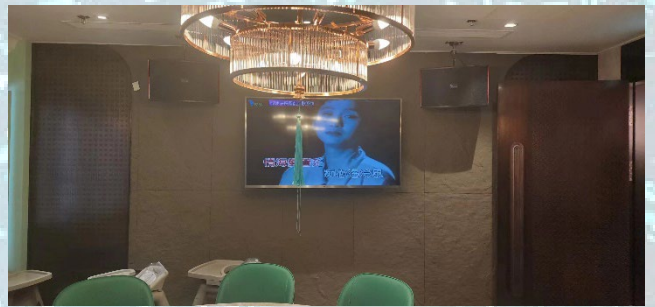
PARTIAL CUSTOMERS

Note: Please note that commercial users might need to consult the local copyright authorities for the required copyrights license for commercial use.

PARTIAL CUSTOMERS

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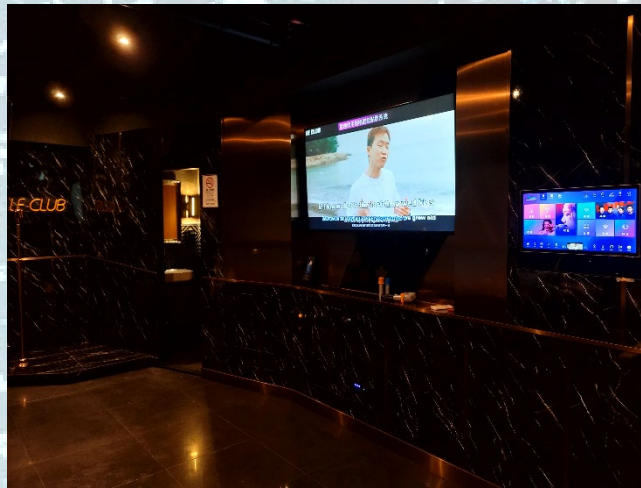
PARTIAL CUSTOMERS

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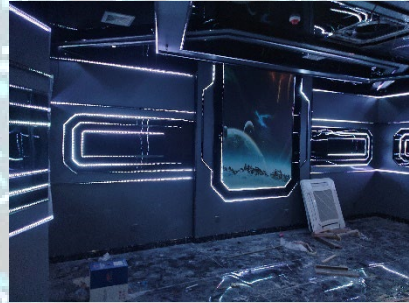
PARTIAL CUSTOMERS

PARTIAL CUSTOMERS

LIGHTING

SING EASY DMX1024

DMX INTELLIGENT LIGHTING CONTROLLER
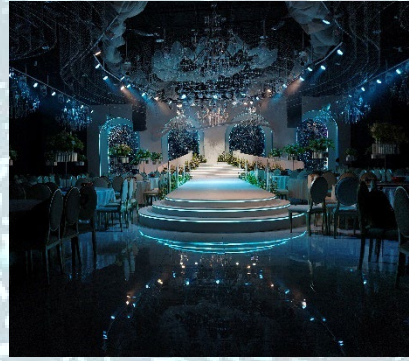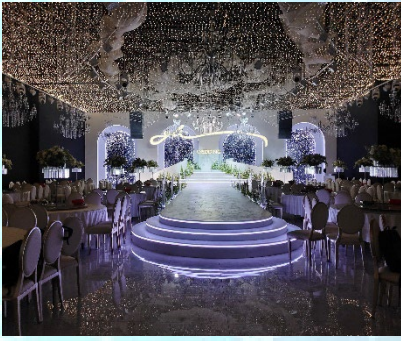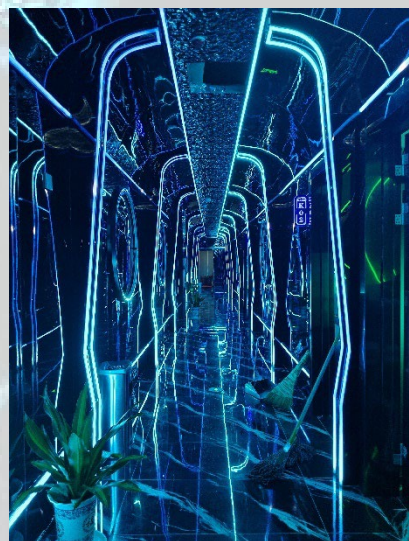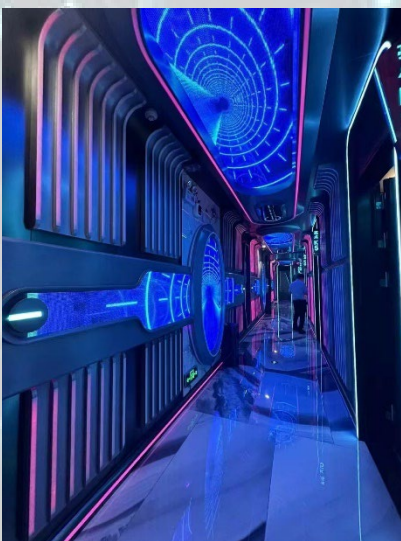
The Sing Easy DMX1024 is an intelligent lighting controller that integrates 8 relay switch outputs, DMX512 control, air conditioning control, audio rhythm synchronization, network control, wall panel control, and door number control. Computer programming makes possible DMX controlled lighting, LED light strip controllers, screens (VJ controller required), smoke machines, and other equipment linkage effects, in other words, the equipment effect changes according to music. In a KTV or party room, it is a core control system.

FEATURES

- HDMI 2.0 Matrix Switcher with 4 HDMI inputs to 4 HDMI outputs
- Supports resolutions up to UltraHD 4K 60Hz (4:4:4) incl. HDR
- HDCP2.3 compliant
- Audio matrix - audio out can de-embedded from arbitrary input or output
- Individual volume adjustment on each analog output
- Supports 4K to 1080p down-scaling on up to 2 HDMI outputs
- AOC ready: HDMI provides 2.5W / 5V to power Active Optical Cables (AOC)
- HDMI output supports up to 5V / 500mA for Active Optical Cable (AOC) cables
- Controllable via front panel, IR, RS232 and TCP/IP

SPECIFICATIONS

DMX Channels	2 × DMX512
Bus Control Ports	3 × RJ45
VOD Control Port	1
Infrared Control Port	1
Relay Control Outputs	8 (Port 1/2: Max 5000W | Port 3/4/5/6/7/8: Max. 1000W)
Air Conditioning Control	5-channel or 3-channel independent fan coil central air conditioning
Programming Method	Computer Software or SD Card Upload
Audio Input	Yes
Audio Output	Yes
Lighting Audio Synchronization	Yes
Power Requirements	220VAC or 12 V DC at 4 A (supplied by external power supply)
Power Consumption	10W
Dimensions (W × H × D)	310 × 166 × 45 mm
Material	Aluminum
Net weight	1.2 Kg
Operating Temperature	-25 ºC to +55 ºC (-13 ºF to +131 ºF)
Storage Temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)

SING EASY SCP9
SMART CONTROLLER PANEL

The Sing Easy SCP9 is a smart controller panel to be used together with DMX1024, it allows the user to power on/off, turn on exhaust, call an attendant or switch the lighting to 6 different modes.

FEATURES

- Background Lighting
- Supports Daisy-Chain
- 6 Different Lighting Modes
- Call Attendant Button
- Exhaust Control

SPECIFICATIONS

Programmable Buttons	9
Power Requirements	DMX1024 Bus
Dimensions (W × H × D)	115 × 186 × 30 mm
Material	Aluminum and acrylic
Net weight	1.2 Kg
Operating Temperature	-25 ºC to +55 ºC (-13 ºF to +131 ºF)
Storage Temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)

SING EASY LEDBE725
BEE EYE FOCUS MOVING HEAD

The Sing Easy LEDBE725 is a motorized Bee Eye moving head beam featuring seven 25W RGBW LEDs. This powerful fixture delivers a diverse array of lighting options, perfect for events, parties, and nightclubs. With its vibrant color mixing capabilities, you can create a multitude of shades. The high-quality motors ensure smooth and wide movements, while the unique placement of the seven LEDs in a bee-eye configuration allows for the projection of seven striking color beams, resulting in stunning lighting effects.

SPECIFICATIONS

Control Protocol	DMX & RDM (Remote Device Management)
Control Interface	RJ45 Ethernet Port
DMX Modes	18
Dim Modes	Seld-Propelled, DMX, Master/Slave, Built-in Microphone Control
Dimming	0 to 100%
Pan & Tilt	Horizontal Direction 540°, Vertical Direction 230°
Light Source Type	LED
Life Span	50,000 Hour Average LED Life
Light Sources	7 × 25W (RGBW) 4-in-1
Beam Angle	4° to 38°
Focus Type	Motorized Focus
Strobe	electronic strobe, 0-25 times/second, adjustable strobe speed
Housing Color	Black or White
Working Environment	Indoor
Cooling Method	Intelligent variable air cooling
Protection Level	IP20
Power Requirements	110 to 220VAC, 50/60Hz
Power Consumption	200W
Material	Acrylic
Dimensions (W × H × D)	235 × 235 × 394 mm
Net weight	5.3 Kg
Installation Methods	Optional embedded installation, ceiling hanging installation, lamp hook installation
Embedded Opening Size	Ø 235 mm

SING EASY LEDBM200

FOCUS BEAM MOVING HEAD

The Sing Easy LEDBM200 is a powerful 200W LED motorized moving head that delivers an impressive array of lighting options for events, parties, and clubs. Featuring a 200W LED, a rotating prism, an 8-color wheel, and 7 static along with 6 rotating gobo wheels, it creates vibrant colors and dynamic shapes for stunning visual effects. Its high-quality motors ensure smooth and wide movements, enhancing the overall lighting experience.

SPECIFICATIONS

Control Protocol	DMX & RDM (Remote Device Management)
Control Interface	RJ45 Ethernet Port
DMX Modes	18
Dim Modes	Seld-Propelled, DMX, Master/Slave, Built-in Microphone Control
Dimming	0 to 100%
Pan & Tilt	Horizontal Direction 540°, Vertical Direction 230°
Light Source Type	LED
Life Span	50,000 Hour Average LED Life
Light Sources	200W (RGBW) 4-in-1
Beam Angle	2°
Focus Type	Motorized Focus
Strobe	electronic strobe, 0-25 times/second, adjustable strobe speed
Color Wheel	9 colors + white
GOBO Wheel	10 fixed GOBOs
Prism Wheel	18-point
Light Output Diameter	125 mm
Housing Color	Black or White
Working Environment	Indoor
Cooling Method	Intelligent variable air cooling
Protection Level	IP20
Power Requirements	110 to 220VAC, 50/60Hz
Power Consumption	200W
Material	Acrylic
Dimensions (W × H × D)	235 × 235 × 394 mm
Net weight	5.3 Kg
Installation Methods	Optional embedded installation, ceiling hanging installation, lamp hook installation
Embedded Opening Size	Ø 235 mm

SING EASY H807SA

LIGHT STRIP CONTROLLER

The Sing Easy H807SA is a stand-alone controller with 8-port output that can control up to 8192 LED pixels. It supports Art-Net protocol, supports addressing of DMX chips, can also be connected to DMX consoles, and can be controlled through LAN.

FEATURES

- Up to 8192 LED pixels
- 8 output ports, each port controls 1024 LED pixels
- The SD card supports FAT32 and FAT16 formats, allowing up to 64 DAT files.
- Multiple synchronous control can be realized through LAN.
- Can be connected to DMX console, support RGBW, can replace files, adjust speed and brightness, and respond quickly.
- Support Art-Net protocol can directly use MADRIX, jinx and other software that supports Art-net.
- Support the encryption function of limiting the number of power-on times.
- Supports addressing of DMX chips, with built-in counting and internal control testing functions.
- It can be online or offline and can be directly connected to the computer network card, router, or to the main controller.
- Support online firmware upgrade.
- The timing playback function can be customized.

SPECIFICATIONS

Supported IC's	DMX512、HDMX、APA102、APA102-65536、WS2801、WS2811、WS2812、WS2813、TM1812、TM1809、TM1804、TM1923、TM1934、TM1925D、TM1926D、TM1803、TM1814、TM1913、TM1914、TM1926、UCSUCS1903、UCS1909、UCS1912、UCS2903、UCS2909、UCS2912、UCS8904、UCS5603、UCS9812、UCS2603、SK9816、SK6812、SM16716、SM16703、SM16709、SM16712、SM16704、SM16714、LPD6803、LPD8806、LPD1882、LPD1889、LPD1883、INK1003、APA104、P943、LC8812、GW6205、QED3110、D9866E、D9866B、D9865C、D9865E、D9865F、D9864B、D9864C、MBI6023、MBI6024、ADT6610、TLC5971、JCS0104, etc LD1510, LD1512, LD153X (only supports 8-bit mode)
Programming Method	Computer Software or SD Card
Power Requirements	220VAC
Power Consumption	3W
Dimensions (W × H × D)	234 × 170 × 41 mm
Material	Aluminum
Net weight	1.1 Kg
Operating Temperature	-25 ºC to +55 ºC (-13 ºF to +131 ºF)
Storage Temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)

SING EASY LS4LED5BAR

4 LASER 5 LED BAR

The Sing Easy H807SA is a stand-alone controller with 8-port output that can control up to 8192 LED pixels. It supports Art-Net protocol, supports addressing of DMX chips, can also be connected to DMX consoles, and can be controlled through LAN.

FEATURES

- Up to 8192 LED pixels

SPECIFICATIONS

Laser light source	Diode-pumped all-solid-state laser
Laser power	Red light (638)/500MW*4
LED light source	5W×5 yellow light
MTBF	About 50,000 hours
DMX Channels	17
Control Methods	Self-propelled, DMX, master-slave, and voice control mode
Control Port	RJ45 DMX512
Cooling Method	Forced air cooling
Power Requirements	90 to 240VAC / 50/60Hz
Power Consumption	50W
Dimensions (W × H × D)	234 × 170 × 41 mm
Material	Aluminum
Net weight	4.3 Kg
Operating Temperature	-25 ºC to +55 ºC (-13 ºF to +131 ºF)
Storage Temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)

SING EASY WY500

OIL-BASED HAZER

The Sing Easy H807SA is a stand-alone controller with 8-port output that can control up to 8192 LED pixels. It supports Art-Net protocol, supports addressing of DMX chips, can also be connected to DMX consoles, and can be controlled through LAN.

FEATURES

- Up to 8192 LED pixels

SPECIFICATIONS

Pre-Heating Time	200 s
Oil Consumption	1 ml per minute
Wireless Remote	Yes
DMX Channels	2
Oil Bottle Capacity	300 ml
Power Requirements	230VAC 50Hz
Built-in Fuse	10A
Power Consumption	500W
Dimensions (W × H × D)	250 × 160 × 381 mm
Material	Aluminum
Net weight	2 Kg
Operating Temperature	-25 ºC to +55 ºC (-13 ºF to +131 ºF)
Storage Temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)

RESELLERS

HONG KONG

BEENET
- ☎ +852 2803 4888
- ✉ enquiry@bee-net.com
- 📍 Unit 2306, 23rd Fl. 28 Stanley Street, Central, Hong Kong

CHERRY CREATION CO LTD
- ☎ +852 46135680
- ✉ realhon@gmail.com

ALLIANCE TECHNOLOGY DEVELOPMENT LIMITED
- ☎ +852 35280310
- ✉ info@atd.com.hk
- 📍 Technology Plaza, 651 Kings Road, North Point, Hong Kong

MACAU

BASKETRY SMART DEVELOPMENT LTD
- ☎ +853 68683680
- ✉ jarvisfu@hotmail.com

SECURE EASY SYSTEMS LIMITED
- ☎ +853 28338288
- ✉ info@secureeasy.pro

SINGAPORE

BEENET
- ☎ +65 6822 8108
- 📠 +65 6822 8107
- ✉ enquiry@bee-net.com
- 📍 190 Middle Road, #20-06 Fortune Centre, Singapore 188979

THAILAND

BEENET
- ☎ +66 2687 5454
- ✉ enquiry@bee-net.com
- 📍 968, 5th Fl., U Chu Liang Building, Rama 4 Road, Silom, Bangrak, Bangkok, 10500, Thailand

PHILIPPINES

MICROSMITH TECHNOLOGY SYSTEM INC.
- ☎ +63 2 564 5555
- ✉ enquiry@bee-net.com
- 📍 3993 Ramon Magsaysay Boulevard Sta. Mesa Manila, Philippines 1008

www.singeasy.com

CONTACTS

info@singeasy.com

https://singeasy.com