



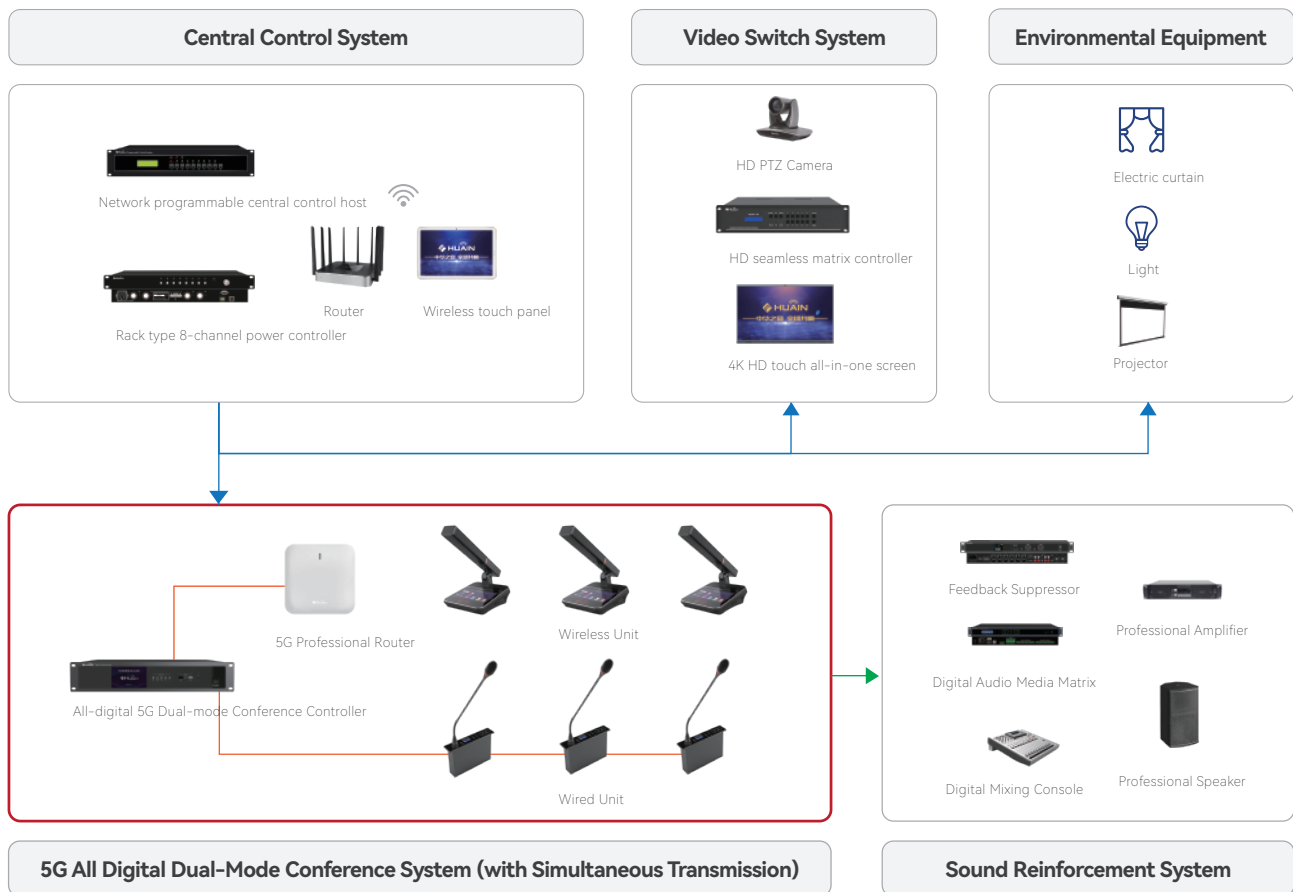
## All-Digital Conference System

Opening a new chapter of digital conference, efficient communication as a shadow to go along

# Wireless Conference System

Intelligent all-digital 5G conference system (100% domestic) integrates wired and wireless (5G) communication function, breaks the single transmission mode, the conference system research and development integrates FPGA digital audio processing technology and many intelligent function applications. In order to provide multi-faceted intelligent function experience and in the intelligent interaction significantly out of the superb scalability, the conference function according to customer demand can be flexible response, is a new conference system design concept, intelligent new conference standard contains: person name guide position, simultaneous interpretation, central control function, audio partition, personnel control, discussion management, multimedia management, and so on.

## System Topology



# HY-8600M5

Intelligent Digital Wireless Conference Controller



## Features

- High-performance FPGA core processing chip with national independent intellectual property rights
- Can be customized to upload the layout of the venue, forming an intuitive control interface, to facilitate the centralized control of participants and their personnel to the seats
- Support software centralized control function, can be a key to close all the microphones in the system
- Control of environmental equipment in the conference room, such as lighting, power, screen and other equipment switches, one-key call for the conference mode
- Customizable conference service function to receive technicians, secretaries, tea, paper, pens, waiters, coffee, towels, mineral water and other conference request functions
- Support audio DSP processing, audio matrix, whistling suppression, noise control, automatic gain, feedback elimination, echo cancellation, 10-band parametric equalization and 31-band graphic equalization, volume, delay and other adjustments
- With voting/voting/criticism function, the results can be synchronized in the conference unit touch screen and conference room screen display

## Parameter Details

Display	5.0" TFT HD touch screen
Conference Modes	7 Modes (FIFO, application for speech, voice-activated start, press and hold speech, free discussion, LIFO, quantity limitation)
Language	5 (Chinese, English, Russian, French, Spanish)
Wired Mic Interface	8*RJ45
Number of Speakers	1~32
Simultaneous Interpretation	64 channels
Sign-in/Voting/Commenting	Yes
Alarm Input	Yes
Web Control	Yes
Camera Tracking	Yes
Wired /Wireless Sharing	Yes
System Capacity	Wired: 76,800 units, Wireless: 4,096 units

# All Digital 5G Wireless Conference Unit

HY-8620W / HY-8605W Series

- ① High-performance FPGA, dual MCU processor, high-capacity FLASH and DDR memory, all-digital signal transmission and processing.
- ② High sensitivity design, built-in automatic gain AGC, digital 10-band equalization EQ, environmental noise cancellation AEC function.
- ③ 5G all-digital communication technology, support for WAP / WAP2 wireless security technology, audio delay less than 5.5mS.
- ④ Name guide function, the display can show the current speaker's personnel information, to realize the value of conference interaction and collaboration.
- ⑤ Centralized control function, the microphone can control the environment equipment in the conference room, such as lighting, power, screen equipment switches.
- ⑥ Simultaneous interpretation function, can transmit and process 64 different languages to receive the channel.



HY-8620W Series

HY-8620W Series	
Frequency	5G WIFI
Display	4.5" LCD Display
Mic Type	Cardioid Directional Electret
Frequency Response	30Hz~20KHz
SNR	>92dB
Dynamic Range	98dB
Mic Sensitivity	-35dB±2dB
Li-ion Battery Capacity	7000mA
Equivalent Noise	20dBA (SPL)
Max SPL	136dB (THD<3%)
Size (W*D*H)	120×155×45mm
Weight	0.66kg

HY-8605W Series	
Frequency	5G WIFI
Display	4.5" LCD Display
Mic Type	Cardioid Directional Electret
Frequency Response	30Hz~20KHz
SNR	>90dB
Dynamic Range	96dB
Mic Sensitivity	-37dB±2dB
Li-ion Battery Capacity	7800mA
Equivalent Noise	20dBA (SPL)
Max SPL	136dB (THD<3%)
Size (W*D*H)	120×155×45mm
Weight	0.56kg



HY-8605W Series

## All Digital Dual-diaphragm Conference Unit (HY-8620 series)

### Design

- ① With 4.5-inch capacitive touch screen
- ② Zinc-aluminum alloy microphone pole, one-piece pickup steel mesh design
- ③ COF full-lamination process, dustproof and waterproof

### Features

- Dual-diaphragm pickup
- Name guide
- Conference monitoring
- Audio independent adjustment
- Select wired or wireless
- Centralized control
- 5 languages
- 64-channel simultaneous interpretation
- 10-band EQ adjustment
- Removable battery



HY-8620C/D Series  
(Wired)



HY-8620C/DW Series  
(5G Wireless)

## All Digital Conference Unit (HY-8605 Series)

### Design

- ① With 4.5-inch condenser touch screen
- ② Electret cardioid directional microphone with indicator ring
- ③ COF full lamination process, dust and water resistant

### Features

- With 4.5-inch capacitive touchscreen display
- Name guide
- Conference monitoring
- Audio independent adjustment
- Select wired or wireless
- Centralized control
- 5 languages
- 10-band EQ adjustment
- removable battery
- 64-channel simultaneous interpretation



HY-8605C/D Series  
(Wired)



HY-8605C/DW Series  
(5G Wireless)

## All Digital Button Type Conference Unit (HY-8613 series)

### Design

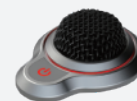
- ① Embedded design
- ② Zinc alloy die-casting molding
- ③ Microphone face cover ring LED indicator and touch switch speaking icon indicator meeting service

### Features

- Erosion and discoloration resistant
- Light touch inductive switch
- High sensitivity pickup design
- 7 conference modes
- Cardioid directivity
- Ultra anti-interference
- Ultra-long pickup
- Static isolation technology



HY-8613C Series



HY-8613D Series

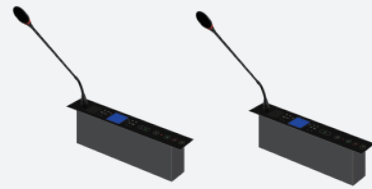
## All Digital Embedded Conference Unit (HY-8615 Series)

### Design

- ① Embedded hidden design, unique cavity and sound pickup
- ② 6-level touch glass panel
- ③ HD LCD display, customizable size

### Features

- 16-channel simultaneous interpretation
- 10-band EQ adjustment
- High-fidelity lossless audio transmission technology
- 5 conference modes
- Hot-swap support
- Ultra-strong anti-jamming ability
- Speaking timer function
- Video tracking



HY-8615C Series

HY-8615D Series

## Wireless Transceiver Extender

### Features

- ① Full coverage of the 5.8G encrypted wireless conference network;
- ② 1 WAN port, 4 LAN ports supporting POE;
- ③ AP automatically assigns IP addresses, plug-and-play;
- ④ AP management functions, intelligent flow control, and remote management capabilities;
- ⑤ Maximum power consumption: 50W.



HY-AP86K

## 12-Port Rack-Mount Charging Cabinet

### Features

- ① Utilizes magnetic absorption for secure fixation.
- ② Provides convenient charging for 12 lithium battery units.
- ③ Charging time is approximately 6 hours.
- ④ Features independent power and charging status indicators.
- ⑤ Designed for rack-mounted installation.



HY-CH12

# HY-8500M

Intelligent Dual-Mode Communication All-Digital Conference Controller



## Features

- Features a 5.0" IPS HD touchscreen with support for four languages: Chinese, English, Russian, and French, plus two theme styles for customization.
- Utilizes 5.8G full-digital direct-sequence spread spectrum (DSSS) modulation technology for exceptional interference resistance.
- Supports up to 76,800 conference unit IDs, allowing flexible combination of wired conference units, interpretation units, or 5.8G wireless conference units
- Features six speaking modes: First-in-first-out, Turn-taking (with quantity limit), Request-to-speak, Voice-activated, Time-limited, and Free discussion
- Enables viewing of battery level, WiFi signal status, and other information of online wireless conference units via PC software

## Parameter Comparison Table



**HY-8500M**



**HY-8500M2**

Display Screen	5.0" IPS HD Touchscreen	5.0" IPS HD Touchscreen
Voting Function	Equipped	Equipped
Attendance Tracking	Equipped	Equipped
Meeting Mode	Six Operating Modes	Six Operating Modes
Number of Speakers	32 Wired Units and 10 Wireless Units	32 Wired Units and 10 Wireless Units
Microphone Interface	5*RJ45 Port	5*RJ45 Port
Video Tracking	Equipped	Equipped
Wired/Wireless Compatibility	Equipped	Equipped
System Capacity	76800	76800
Role Separation	-	Supports 16-Channel Role-Separated Output Mode
Audio Processor	-	Built-in High-Performance DSP Processor with 16-Channel Audio Matrix

## Intelligent Dual-Mode Dual-Diaphragm Conference Unit (HY-8520T-8505T)

### Design

- ① Aluminum alloy panel with lasting luster.
- ② 4.0" IPS full-color touchscreen.
- ③ Pure copper microphone connector & stud (gooseneck) / Aluminum alloy pole (square).

### Features

- Dual-mode (wired/wireless) switching
- 128-bit AES encryption, WPA/WPA2 wireless security protocols
- Dual-band Wi-Fi module
- 4 languages interface (CN/EN/RU/FR)
- 6 conference modes
- 69+1 simultaneous interpretation audio channels
- High sensitivity pickup design
- 7000mAh rechargeable battery (10-hour operation)



HY-8505TC Series    HY-8505TD Series

## All-Digital Conference Unit (HY-8520~8505 Series)

### Design

- ① Aluminum alloy microphone pole with unique chamber and one-piece steel mesh grille
- ② 4.0" IPS full-color touchscreen display
- ③ Premium aluminum alloy panel with lasting surface luster

### Features

- 6 Conference modes
- High-sensitivity pickup with built-in AGC (Automatic Gain Control)
- 69+1 simultaneous interpretation audio channels
- 4 languages interface (CN/EN/RU/FR)
- High sensitivity pickup design
- High-performance FPGA & dual-MCU processor architecture
- Analog-digital dual backup system
- 5 polar pattern options (Super-cardioid/Cardioid/Hyper-cardioid/Figure-8/Omnidirectional)



HY-8520C/D Series    HY-8505C/D Series

## 5.8G Wireless Dual-Diaphragm Conference Unit (HY-8520 Series)

### Design

- ① Aluminum alloy microphone pole with unique acoustic chamber and one-piece steel mesh grille
- ② 4.0" IPS full-color touchscreen
- ③ Premium aluminum alloy panel with lasting luster

### Features

- High-performance dual-band Wi-Fi module
- 128-bit AES encryption, WPA/WPA2 security protocols
- High sensitivity pickup design
- 4 languages interface (CN/EN/RU/FR)
- 6 Conference modes
- 7000mAh rechargeable battery (10-hour operation)
- Intelligent fault detection system
- 5 polar pattern options (Super-cardioid/Cardioid/Hyper-cardioid/Figure-8/Omnidirectional)



HY-8520CW Series    HY-8520DW Series

## 5.8G Wireless Transceiver

### Design

- ① Provides 5.8G encrypted Wi-Fi coverage for wireless conference systems
- ② Network ports: 1×WAN+POE port , 1×WAN port
- ③ Auto IP assignment & built-in channel analyzer for plug-and-play AP operation
- ④ AP management with intelligent traffic control & remote administration
- ⑤ 64MB Flash, 128MB RAM



HY-AP85

## All-Digital Interpreter Console (with 70-Channel Simultaneous Interpretation)

### Design

- ① Microphone pole connectors and studs are made of pure copper
- ② Features a 5.0" IPS full-color touchscreen
- ③ Constructed with premium aluminum alloy panels for lasting luster



HY-8505Y/70

## 20-Port Charging Station

### Design

- ① Simultaneously charges up to 20 wireless conference units;
- ② Digital display shows device output voltage and clearly indicates charging status for each USB port;
- ③ Automatically detects charging status and shuts off power when fully charged;
- ④ Supports PD fast charging protocol with intelligent recognition, current distribution, and fast charging, automatically adjusting output current;
- ⑤ Features multiple intelligent safety protections including automatic overvoltage protection, overcurrent protection, and overcharge protection.



HY-U20TC