



All-Digital Conference System

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

QUALIFICATIONS AND HONORS



We have mastered the first domestic dual-diaphragm conference system sound pickup technology, anti-secrecy ultrasonic diffraction technology, DSP/DDOV all-digital transmission technology and powerful integration control and other key technologies. Become the industry's leading high-end audio and video conferencing system overall solution provider and all-digital conference system equipment R&D manufacturer.



Part of the authoritative qualification and honor certificate

COMPANY PROFILE

2015

Founded in

30+

Professional team

10000+

Service customers

HUAIN is a national high-tech enterprise specializing in the design, research and development, production and sales of audio and video products.

The company is committed to seeking breakthroughs in all-digital conference system, anti-theft conference system, paperless conference system, visual distributed management system, remote video conference system, conference recording and broadcasting system, sound amplification system, programmable central control system and peripheral equipment technology and application, in order to promote the technical revolution of traditional industries.

HUAIN insists on "professional concentration, technological innovation" as the driving force. Our company has a group of advanced researchers in the industry, specializing in research, development and production. We have set up acoustic laboratory, audio testing laboratory, radio frequency laboratory and other professional laboratories, and fully launched the research and development, production and sales of high-end all-digital conference system, paperless conference system, visual management system, programmable central control system, signal switching system, conference recording and broadcasting system, conference sound system and peripheral processing equipment. In strict accordance with international standards, we implement standardized management and control in the process of design and development, procurement, production, quality management and service. At present, the company has more than 1000 product models such as full digital conference system, array conference system, wireless conference system, simultaneous interpretation system, large voting system, sound amplification system, audio processing system, education system, which can meet -the full series of conference system solutions from small meeting discussions to large international conferences. We are the world's leading manufacturer of modern conference system equipment.



Devise



R&D



Produces



Sales

COMPANY CULTURE

Market-Oriented and Customer-Centric



Corporate Mission

Achieve the brand with professionalism, with international vision and prospects



Corporate Vision

Chinese Voice, HUAIN Makes



Corporate Values

Innovation Leadership, Excellent Quality, Win-Win Cooperation



Corporate of experience

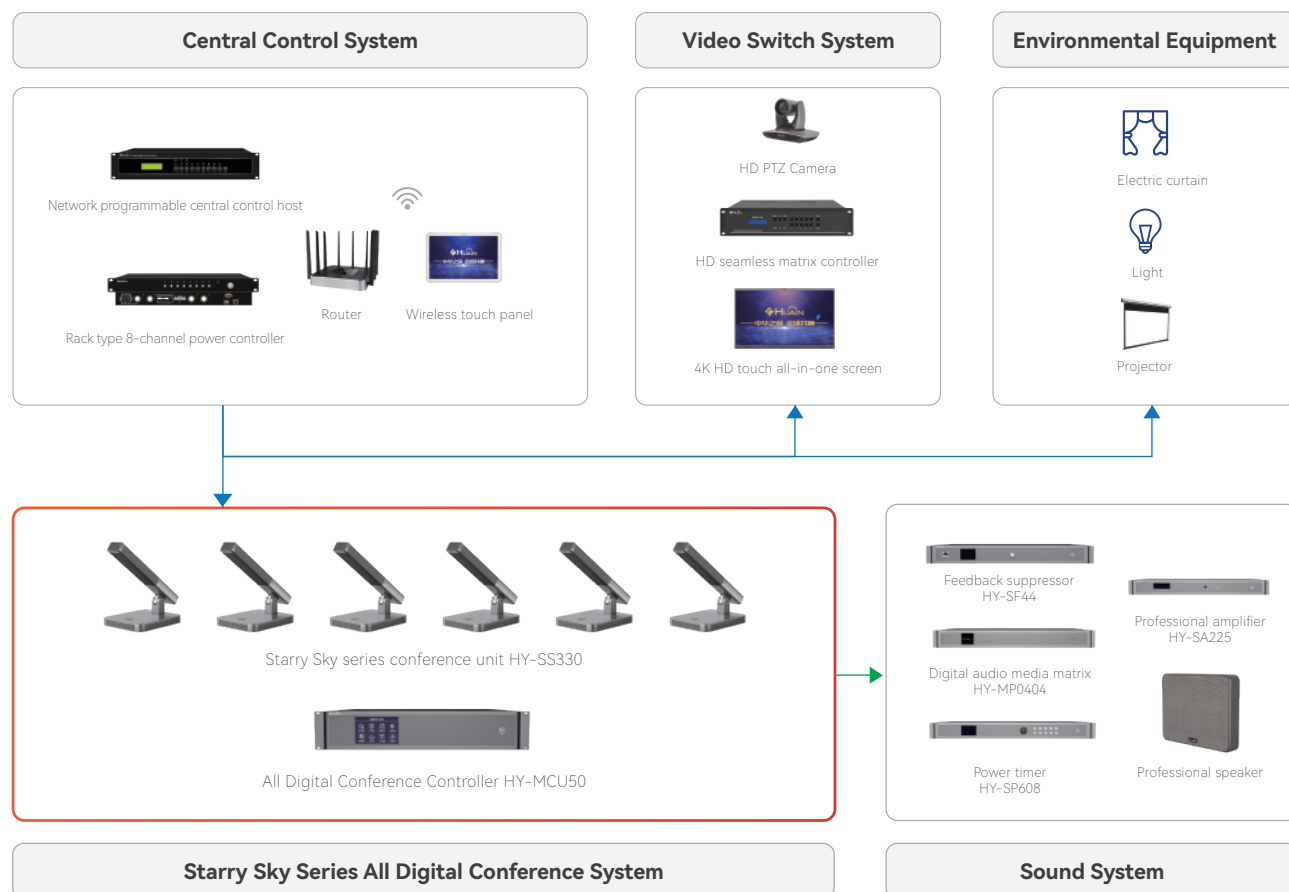
Convergence of forces for common development



Starry Sky Series

This system is designed for speech discussion, camera tracking, ultrasonic diffraction, clock display, conference services and other multi-functions in one of the all-digital conference system. The maximum capacity of a single conference controller is 240 digital conference units, and 76800 conference units can be connected through it. The system pursues simple lines in appearance design, and improves your using experience from touch, vision, hearing and other multi-dimensions, which can avoid the audio recording of non-normal recording equipment and communication audio leakage. The system has a variety of conference modes, including free discussion, first-in-first-out(FIFO), number limit, voice control, chairman's permission (speech request), last-in-first-out(LIFO), time-limited speech and queuing speech mode.

System Topology



HY-MCU50

All Digital Conference Controller



Features

- With 4.5" TFT fully fits the touch screen, it supports Chinese simplified, traditional and English menu, or customize the menu language.
- With 8 channels of unit output interface, it supports the maximum connection of 240 units. The system capacity is 76,800 units.
- 8 conference modes: First in First out, Last in First out, number limit, chairman's permission, voice control, limited time speech, queuing speech, and free discussion.
- With 4x1 HDMI HD matrix (optional for 4x4 or SDI interface), it supports screen freezing function.
- The number of speakers can range from 1 to 20; the Chairman and VIP are not limited in number.

Parameter Comparison Table



HY-MCU30



HY-MCU50

	HY-MCU30	HY-MCU50
Display	4.5" TFT full lamination touch screen	4.5" TFT full lamination touch screen
Language	2 (Chinese, English), support customization	3 (Chinese, English), support customization
Conference Modes	8	8
Mic Connection	6*8-Pin + 2*RJ45	6*8-pin + 2*RJ45
Number of Speakers	1~20	1~20
Video Matrix	-	4x1 channel HDMI HD matrix (optional for 4x4 or SDI interface)
Web Control	-	Support

Anti-Theft Dual Diaphragm Conference Unit (HY-SS330 Series)

Design

- ① Minimalist style, full aluminum alloy body design
- ② 18mm high brightness red speaking indicator, zinc-aluminum alloy microphone pole
- ③ Anti-theft radar independent switch design

Features

- Ultrasonic radar anti-tampering technology
- Built-in ultrasonic mixer
- Intelligent audio detection
- Super anti-jamming capability
- 360° omnidirectional acoustic shielding design
- Waterproof and dustproof function
- High sensitivity pickup
- DSP/DDOV technology



HY-SS330 Series



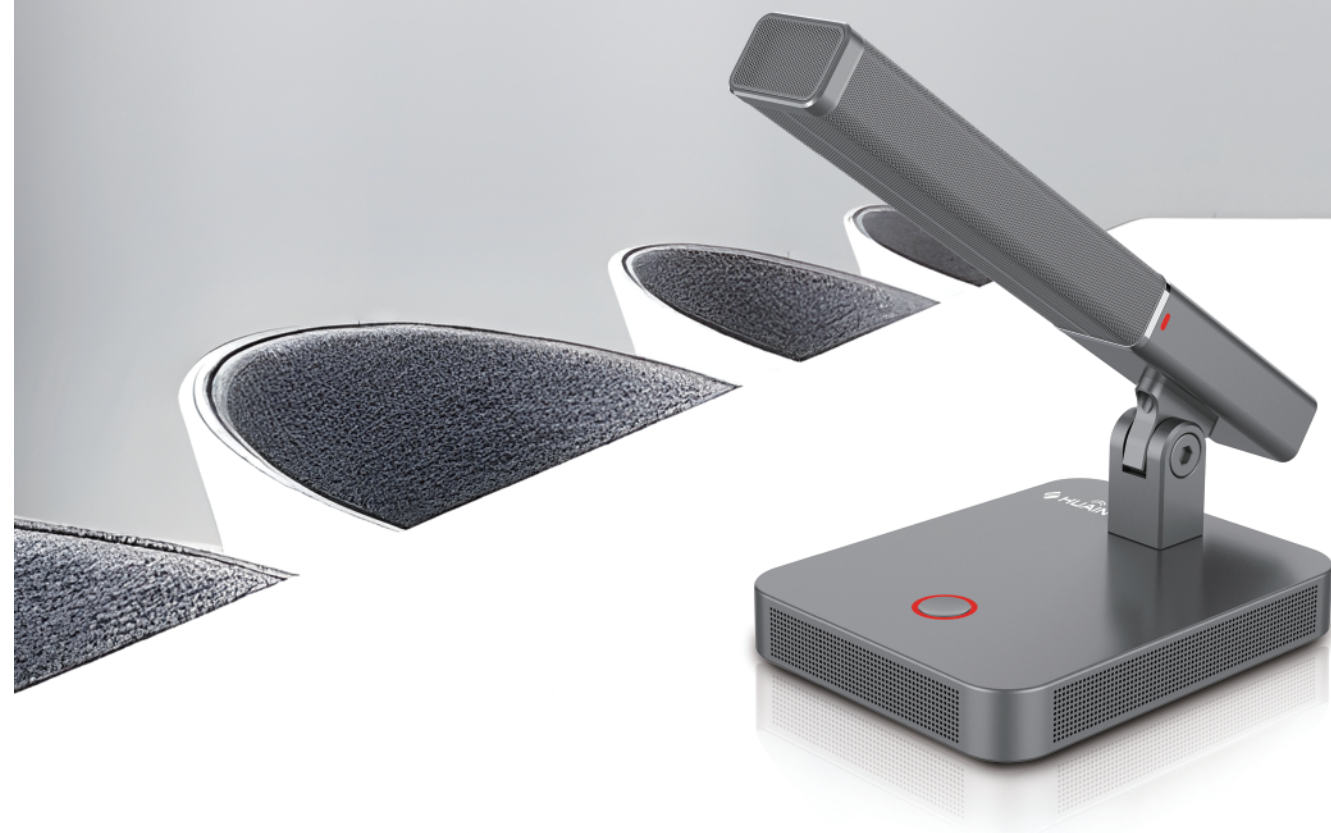
reddot
winner 2025

Winner of the 2025 German Red Dot Award for Best Design

Star All Digital Conference Unit

HY-SS310 / HY-SS300 Series

- ① Minimalist style, aviation-grade aluminum alloy body design
- ② 18mm high brightness red speaking indicator, zinc aluminum alloy microphone pole
- ③ Built-in 2 Class D speakers, automatic mute after opening the microphone



HY-SS310 Series

HY-SS310 Series	
Mic Type	Supercardioid directional electret, 2*14mm gold-plated microphone core
Frequency Response	30Hz~20KHz
SNR	>92dB
Dynamic Range	98dB
Mic Sensitivity	-35dB±2dB
Equivalent Noise	20dBA (SPL)
Max SPL	136dB (THD<3%)
Connector	8-Pin (or RJ45 port)
Dimensions (W×D×H)	110×140×20mm
Weight	0.84kg

HY-SS300 Series	
Mic Type	Cardioid electret, 9.7mm gold-plated core
Frequency Response	30Hz~20KHz
SNR	>90dB
Dynamic Range	96dB
Mic Sensitivity	-37dB±2dB
Equivalent Noise	20dBA (SPL)
Max SPL	125dB (THD<3%)
Connector	8-Pin (or RJ45 port)
Dimensions (W×D×H)	110×140×20mm
Weight	0.68kg



HY-SS300 Series

Star All Digital Conference Unit

HY-SS410 / HY-SS400 Series

- ① Zinc-aluminum alloy microphone pole, unique cavity and One-piece molded all-enveloping pickup steel mesh design
- ② desktop streamlined design, zinc alloy high-precision die-casting one-piece molded body, sturdy and durable
- ③ 3.5" HD round LCD touch screen, 18mm round speech indicator light
- ④ Star series dial design, support for personalized customization



HY-SS410 Series	
Mic Type	Cardioid electret, 2*14mm gold-plated core
Frequency Response	30Hz~20KHz
SNR	>92dB
Dynamic Range	98dB
Mic Sensitivity	-35dB±2dB
Equivalent Noise	20dBA (SPL)
Max SPL	136dB (THD<3%)
Screen Size	3.5" Round Screen
Dimensions (WxDxH)	102×133×37mm
Microphone Weight	0.82kg

HY-SS400 Series	
Mic Type	Cardioid electret, 9.7mm gold-plated core
Frequency Response	30Hz~20KHz
SNR	>90dB
Dynamic Range	96dB
Mic Sensitivity	-37dB±2dB
Equivalent Noise	20dBA (SPL)
Max SPL	125dB (THD<3%)
Screen Size	3.5" Round Screen
Dimensions (WxDxH)	102×133×37mm
Mic Weight	0.66kg



HY-SS400 Series

Dual-diaphragm conference unit (HY-SS410 series)

Design

- ① Desktop streamlined design, zinc alloy high-precision die-casting one-piece molded body
- ② 3.5" high-definition round LCD touch screen, 18mm high brightness red speech indicator, zinc-aluminum alloy microphone lever
- ③ Star series dial design, support for personalized customization

Features

- DSP/DDOV technology
- 8 conference modes
- Multi-language selection display
- Super anti-interference ability
- Waterproof and dustproof function
- Swipe to switch dial
- High sensitivity sound pickup
- 3 types of identity Permissions



HY-SS410 Series

Anti-Theft Conference Unit (HY-SS320 Series)

Design

- ① Minimalist style, full aluminum alloy body design
- ② 18mm high brightness red speaking indicator, zinc-aluminum alloy microphone pole
- ③ Anti-Security Radar Independent Switch Design

Features

- Ultrasonic radar anti-tampering technology
- Built-in ultrasonic mixer
- Intelligent audio detection
- Super anti-jamming capability
- 360° omnidirectional acoustic shielding design
- Waterproof and dustproof function
- High sensitivity sound pickup
- DSP/DDOV technology



HY-SS320 Series

Digital Conference Unit (HY-SS400 series)

Design

- ① Desktop streamlined design, zinc alloy high-precision die-casting one-piece molded body
- ② 3.5" high-definition round LCD touch screen, 18mm high brightness red speech indicator, zinc-aluminum alloy microphone lever
- ③ Star series dial design, support for personalized customization

Features

- DSP/DDOV technology
- 8 conference modes
- Multi-language selection display
- Super anti-interference ability
- Waterproof and dustproof function
- Swipe to switch dials
- High sensitivity sound pickup
- 3 types of identity Permissions



HY-SS400 Series

Digital Audio Media Matrix (HY-MP0404/0808/1616)

1. With 5 third-party control protocols, support Websocket, UDP, TCP/IP, RS-232, RS-485 control protocols
2. Support 100 groups of scene presets
3. input and output channel parametric equalization with 5/8/12 segments can be set, the graphic equalization with 10/15/31 segments can be set.
4. with Chinese, traditional, English three language switching
5. with 2.0 "IPS true color display and signal indicator, can display LOGO, network information, level, channel status, device name and so on.
6. support for dual hot backup function
7. Expandable optical network dual backup



HY-MP0404/0808/1616

Digital Amplifier (HY-SA225/SA240)

1. 160×32 high brightness display screen
2. digital power amplifier module, dual-channel integrated design
3. Left and right channels have electronic crossover, 5-band parametric equalizer, compressor, electronic volume, phase selection and other functions.
4. input single channel, stereo, bridge mode selection
5. panel equipped with USB digital interface
6. with balanced input interface
7. 1U design, lightweight body, easy to carry and installation



HY-SA225/SA240

Adjustable Directivity Digital Analog Backup Speaker


HY-S443B

HY-S803D

HY-S1603D

System	Ultra-thin Audio	Digital/Analog Backup Active Steerable Speaker	Digital/Analog Backup Active Steerable Speaker
Speaker Unit	4×4" 2-way full-range slimline speaker	8×3" ferrite/0.75"(19mm) voice coil	16×3" ferrite/0.75"(19mm) voice coil
Sensitivity Level (±2dB)	95dB (1W/1M)	92dB/w/m	94dB/w/m
Speaker Power	150W (RMS)/600W (PEAK)	160W(AES), 640W(PEAK)	320W(AES), 1280W(PEAK)
SPL	116dB	116dB	118dB
Phased Array Beam Steering Mode (-12dB)	-	1 adjustable vertical beam	1 adjustable vertical beam
DSP Processor Module	-	8-channel DSP with balanced inputs	16-channel DSP with balanced inputs
Amplifier Output Power	-	8×30W/8Ω (Total >240W/8Ω)	16×30W/8Ω (Total >240W/8Ω)
Size (WxDxH)	360×280×50mm	116×141×715mm	116×141×1363mm
Installation	Ceiling, wall-mounted, recessed	Wall-mounted	Wall-mounted

中华之音 全球共响



Official Website



WeChat
Official Account



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The pictures and parameters involved in this manual are for reference only. If there is any change, no further notice will be given.