

HY-5800M

2.4G Digital Conference Controller

Description

- Uses DSP/DDOV digital processing and transmission technology to achieve digital signal transmission and processing
- Uses aluminum alloy panel embedded with Mohs hardness level 6 touch glass panel, providing simple and intuitive human-machine interface operation
- The system is equipped with a 3.8-inch LCD display and control buttons, supporting Chinese and English menu display, with optional ordering of any language
- ISM band, 2.4G full digital frequency hopping (DSSS) modulation communication technology, fully compatible with Wi-Fi, with strong anti-interference capability
- Truly separated digital wireless transceiver and adaptive frequency hopping technology, forward error correction and retransmission mechanism to ensure no data loss
- Employs 128-bit AES Rijndael and 48-bit PIN code encryption protection to prevent eavesdropping and unauthorized access, ensuring meeting privacy
- Full digital audio processing technology, audio sampling frequency up to 48KHz, frequency response up to 20Hz-20KHz, close to CD quality sound
- The system uses ID addressing control method, a single host can connect to 256 wireless conference units, and the entire system can be expanded to access 4096 units
- Built-in DSP digital audio module with adaptive feedback suppression, digital equalizer, and automatic gain function to minimize interference, distortion, and crosstalk
- Uses professional 2.4G communication cable to connect with wireless transceiver, the host can power the wireless transceiver without additional power supply
- Built-in camera tracking host board, capable of camera tracking setup, saving, and calling without video tracking software or control keyboard
- The system supports VISCA, PELCO-D, PELCO-P standard control protocols, using RS485/RS422 control methods
- Built-in 4×2 video matrix switching function, easily managing multiple video signals, using RCA input and output interfaces
- When a single microphone is turned off, it automatically tracks the previous unit; when all microphones are off, it automatically returns to the preset panorama
- The system has four work modes, and the number of speakers can be customized (settable to 1/2/3/4 units): * FIFO work mode: when the limit is reached, newly activated units will override earliest activated units

Specifications

Mechanical	
Operating power	AC100V~240V 50/60Hz, DC12V~17V
Power consumption	standby 10W, maximum 50W
Communication method	2.4G frequency hopping (DSSS) modulation technology
Display	3.8-inch LCD screen
Frequency response	20Hz~20KHz
Signal-to-noise ratio	>96 dB
Dynamic range	106dB
Total harmonic distortion	< 0.05%
Output impedance	47 KΩ
Audio output	XLR×1 +10dB, 6.3mm×1 +20dB
Video input	RCA×4
Video output	RCA×2
Video control	RS-422 Phoenix connector
Dimensions	483×320×90mm

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