

产品规格书

Specification

Product Name All-Digital Touch-Control Microphone

Product Model HY-8605C3/HY-8605D3

Company Name **Zhuhai Huain Electronic Technology Co., Ltd.**

Revision history				
Serial Number	Version number	Revision Summary	Reviser	Revision Date
1	V1.0	First formulation		2019/10/22
2	V2.0	Page Update		2025/11/5

1. Product Overview

1.1 Product Overview

The all-new fully digital touch-screen conference unit adopts a twin interaction design concept, with optional wired and wireless communication functions, breaking the single communication mode. It integrates FPGA digital audio processing technology and discussion equipment with many multimedia functions, easily realizing functional expansion , supporting a variety of intelligent functions, making operation visual and touch-sensitive, and making the meeting experience more interactive.

1.2 Product Images



2. Product Specifications and Parameters

2.1 Functional Parameters

1. It adopts high-performance FPGA, dual MCU processors, large-capacity FLASH and DDR memory to realize fully digital signal transmission and processing, which complies with the IEC60065 international standard;
2. Employs an electret supercardioid microphone with audio activation function to ensure pickup distance and sound quality; pickup distance can reach 50cm.
3. The microphone boom features a spiral detachable design, facilitating equipment transportation, storage, installation, and maintenance and safekeeping during breaks;
4. It adopts the FTC334C professional capacitive touch sensing button processing chip, with an embedded Mohs hardness level 6 touch glass panel, virtual touch buttons, no mechanical button sound when switching on and off, and long service life.
5. Utilizing nano-level fingerprint isolation technology, the oleophobic and waterproof layer effectively isolates water, oil, and stains, thereby achieving fingerprint-proof and sweat-proof effects;
6. Equipped with a 4.5" high-definition LCD fully laminated touch screen, supporting Simplified Chinese, Traditional Chinese, English, Russian, French, and Spanish display, and supporting screen brightness adjustment via a progress bar;
7. It can display information such as the organization's logo, attendee information, speaking time, meeting services, SMS messages, system version, speaking list, perpetual calendar, and attendance and voting data;
8. It has a speaking timer function, supports dynamic display of speaking time, and allows setting a countdown timer before speaking;
9. It adopts high-fidelity lossless audio transmission technology, supports selectable audio sampling frequencies of 32KHz and 48KHz, has sensitive sound pickup and clear voice, and a frequency response of up to 20Hz-20KHz;
10. Supports "ring-shaped daisy-chain" connection, comes with professional CAT5 cable, the cable is fully aluminum foil and water shielded, which can effectively avoid and prevent electromagnetic interference of the line;

11. Seven meeting modes: First-In-First-Out (FIFO), Last-In-First-Out (LIFO), Request to Speak, Queue to Speak, Free Mode, Chair Mode, and Voice Control Mode;
12. The number of speakers can be set from 1 to 32. There is no limit to the number of chairpersons and VIPs. The free discussion mode can be turned on without restriction.
13. Once a speaker's microphone is turned on, the speaking list will display the application scenarios of all currently turned-on microphones and the speaker's information. Attendees can quickly understand the speaker's information, truly realizing the value of interactive collaboration in the meeting.
14. Upgradeable central control function, which can turn off all microphones in the system with one click, supports the control of environmental equipment in the conference room, such as the on/off of lighting, power, screen and other equipment, and one-click call of conference mode;
15. It adopts a digital ID addressing method, allows for custom ID numbering, has a digital identification code, and the signal stream can be output to a third-party speech recognition system for conversion into text archiving;
16. When used with a high-definition camera, it can automatically track speakers and switch the view automatically, and supports image freeze and multiple cameras tracking the same conference unit;
17. Supports customizable meeting service functions, and has the ability to receive meeting requests from technicians, secretaries, tea, paper, pens, waiters, coffee, towels, mineral water, etc.
18. Supports real-name and anonymous check-in, with touch button check-in and make-up check-in functions. Check-in countdown time and check-in data can be displayed dynamically in real time.
19. Built-in voting function, which can set the pass rate or display status, the calculation method of expected or actual attendance, the handling of no key presses, the confidentiality method, countdown and other functions;
20. Built-in simultaneous interpretation function, with dual-channel support for 63+1 different language channels;
21. Supports connection of 240 chairperson units. The chairperson unit has the function of controlling the meeting order and priority speaking rights, and can shut down other representative units that are speaking.

22. It has a dedicated mode for the chairperson and supports the function of processing representative unit requests to speak through the Web application service screen. The chairperson can approve or reject representative unit requests to speak.

23. Equipped with one 3.5 mm headphone jack for participants to monitor the meeting, with the volume of the call adjustable independently;

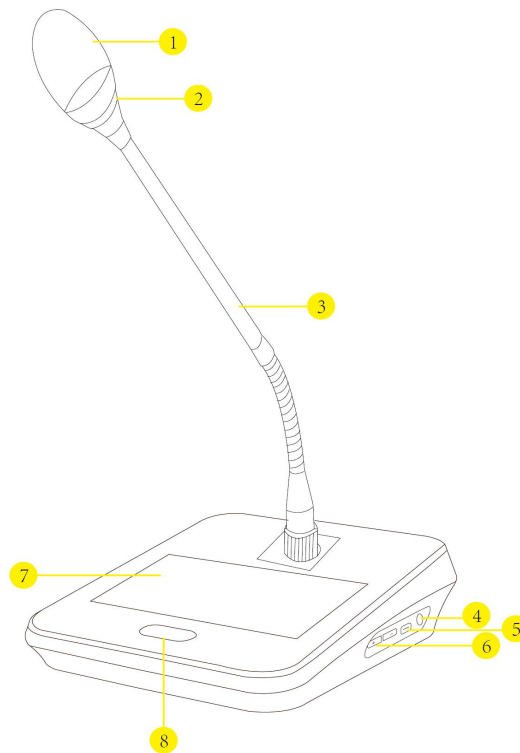
24. Equipped with one Type-C interface, it can be connected to a computer to import files, allowing for program upgrades and maintenance without disassembling the device;

2.2 Product Specifications

Technical parameters	
Microphone type	9.7mm gold-plated microphone core
Pointing characteristics	Cardioid directional electret
Display screen	4.5-inch LCD touchscreen
Frequency response	20Hz~20kHz
SNR	96dB
Dynamic range	96dB
Total Harmonic Distortion	< 0.05%
Microphone Sensitivity	-37dB±2dB
Connection method	Ring Hand
Connecting cables	RJ45 network cable
Number of units activated	1-32 or all
Numbering function	Customizable ID number
Equivalent noise	20 dBA (SPL)

Max sound pressure level	125dB (THD<3%)
Headphone output jack	3.5mm 3D socket
Headphone volume	10mW
Meter stick size	390mm
Power parameters	
Input power	24V DC±5%
Input current	108mA ±5%
Overall power consumption	2.5W
physical parameters	
Meter stick size	390mm
Base size	120×155×48mm (excluding microphone stand)
Packaging dimensions (length × width × height)	550×220×93mm
Net weight/Gross weight	0.65Kg/1.44Kg
Product accessories included (if different from the actual product, the actual product shall prevail).	
sponge cover	1
Certificate of Conformity	1 copy
Warranty card	1 copy

3. Product Introduction



1. Conference unit microphone: Super directional microphone core (9.7mm gold-plated microphone core) ;
2. Red indicator halo: stays on when the unit is activated , and flashes when someone requests to speak ;
3. Microphone stand: Strong anti-interference series microphone stand , custom length supported ;
4. Headphone jack: 3.5mm stereo headphone jack ;
5. TYPE-C interface: Upgrade program and maintenance;
6. Volume buttons : Increase the volume of the monitoring headphones;
7. LCD Display: 4.5 - inch high-brightness fully laminated LCD touchscreen ;
8. Talk switch button: This button can turn the conference unit's talking function on and off. When on, the indicator light will remain on .