HUAIN 华音

产品规格书

Specification

Product Name Dual-engine Wired Unit

Product Model HY-ST20C、HY-ST20D

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

This conference unit features 2 x 14mm gold-plated condenser microphones and a precision acoustic interference aperture structure, combined with 0-10 levels of independent gain adjustment, achieving clear sound pickup from a distance of 60-100cm. It is equipped with a 3.5-inch touchscreen, supporting Chinese, English, and Russian language displays and 6 theme switching options. It offers four conference modes, including First-In-First-Out (FIFO) and Chairman-First-Out (CPI), and can connect up to 4 chairman units. When used with a camera, it can automatically track speech, and includes a shielded cable to ensure a stable connection.

1.2 Product Images





2. Product Specifications and Parameters

2.1 Functional Parameters

1. It adopts an aluminum alloy microphone boom and has a built-in 2×14mm high-fidelity gold-plated condenser pickup head, supporting dual pickup head horizontal array technology;

2. The unique cavity and one-piece molded sound-collecting steel mesh design can precisely control the sound-collecting angle and avoid acoustic feedback and howling;

3. The microphone boom uses 32,500 high-density acoustic interference holes with a diameter of 0.4mm. The aperture and spacing are precisely calculated, and combined with interference correction technology, the sound pickup details are precisely controlled, effectively improving the sound pickup sensitivity in the human voice frequency response range.

4. Features 1-18 levels of customizable screen brightness adjustment, allowing you to adjust the display brightness to a comfortable level according to your current environment.

5. Equipped with a 3.5" LCD high-brightness touchscreen, supporting Chinese, English and Russian language display, and can display system signal, channel, ID address and speaking time;

6. It adopts a gravity-sensing touch sensor chip, with an elliptical track indicator light, no mechanical button sound when switching on and off, and a long service life;

7. The aluminum alloy panel is embedded with a Mohs hardness level 6 touch glass panel, which is waterproof and dustproof, preventing tea and water from splashing during meetings and affecting the normal use of the equipment;

8. Features 6 online theme background switching functions, allowing users to customize the microphone unit display screen background style to match different scene requirements;

9. 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;

10. High sensitivity design with built-in automatic gain control, effective pickup distance up to 60-100cm;

11. Features 0-10 level independent gain adjustment for microphone units, allowing users to customize the microphone boom pickup gain according to their needs;

12. It adopts a 48KHz audio sampling frequency, which is sensitive to sound pickup and clear to speech, with a frequency response of up to 20Hz-20KHz;

13. It has four meeting modes: first-in-first-out, free discussion, chair permission, and voice-activated start; the number of speakers can be set from 1 to 20.

14. The system can connect to 4 chairperson units at the same time. The chairperson unit has priority function and can also shut down other representative units that are speaking.

15. Comes with a 1.5-meter CAT5 cable. The cable is fully shielded with aluminum foil and water-based shielding, which can effectively avoid and prevent electromagnetic interference.

16. The system allows for customizable meeting unit ID numbers, effectively avoiding ID address conflicts and ensuring the uniqueness of system ID addresses;

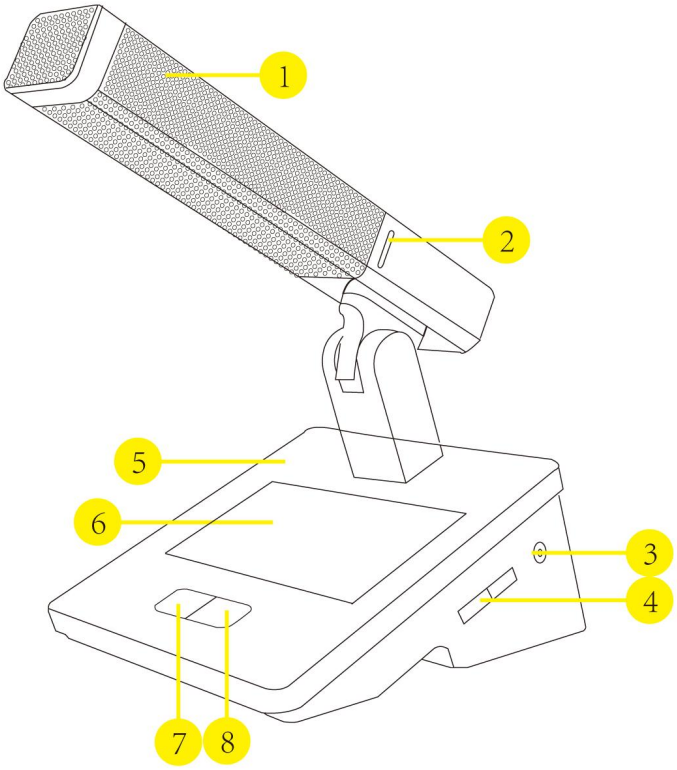
17. When used with a high-definition camera, it can automatically track speakers and switch the view automatically, and supports image freeze and multiple cameras tracking the same conference unit;

2.2 Product Specifications

Technical parameters	
Microphone method	2×14mm capacitive gold-plated microphone core
Pointing characteristics	Cardioid Direction
Display screen	3.5" LCD Touchscreen
Frequency response	20Hz~20kHz
SNR	>92dB
Dynamic range	>98dB
Total Harmonic Distortion	< 0.05%
Microphone Sensitivity	-35dB±2dB
Connecting cables	RJ45 interface
equivalent noise	18dBA (SPL)
Max sound pressure level	136dB (THD<3%)
Gain Adjustment	Levels 0-10
Number of Spokespersons	1-20
Meeting Mode	Four methods: First-in-First-out, Free Discussion, Chairman's Permission, and Voice-Activated.
Power parameters	
Input power	DC2 4V ±%5
Input current	80ma±%5
Overall power consumption	2W

physical parameters	
Meter rod dimensions (mm)	225×34×23mm
Base dimensions (mm)	130×100×55mm
Packaging dimensions (length × width × height)	345×185×150mm
Net weight/Gross weight	0.7kg/1.4kg
Product accessories included (if different from the actual product, the actual product shall prevail).	
Network port T-connector	1
network cable	1 item
manual	1 copy
Warranty card	1 copy
Certificate of Conformity	1 copy

3. Product Introduction



1、Microphone stand: All-aluminum alloy high-interference series microphone stand (2x14mm gold-plated microphone core);

2、Red indicator light: stays on when the unit is turned on;

3、Headphone jack: 3.5mm stereo headphone jack with touch glass panel;

4、Volume control buttons: Adjust the volume level;

5、Aluminum alloy embedded Mohs hardness level 6 touch glass panel;

6、LCD Display: 3.5" LCD high-brightness touchscreen;

7、Switch button: can turn the conference unit on and off; the indicator light stays on when the unit is on.

8、Chairman button: has priority function and can shut down all delegate units (delegate units do not have this function);