Parameters

1. Wireless Sub-system

Item	Parameters
Mode	Voice: Digital Communication Control: Digital Communication
Modulation	Voice Channel :PI/4 DQPSK Control Channel: GFSK
Carrier freq. band	668MHz~698MHz
Bandwidth	30MHz
S/N	>96dB
T.H.D	<0.2% (@1KHz)
Freq. Response	30Hz~18KHz
Freq. Response Attenuation	<2dB (20Hz~20KHz)
Latency	<4ms
Distance	50~80m(Distraction-free environment)
Distortion	<0.5%
Antenna Mechanism	Antenna diversity
Antenna	600MHz Antenna & 2.4GHz Antenna

2. Wired Subsystem

Item	Parameters
Mode	Voice: analog communication, Control: digital communication
S/N	>88dB
Dynamic Range	88dB
T.H.D	<0.1% (@1KHz)
Freq. Response	50~16KHz
Freq. Response Attenuation	<1dB (20Hz~20KHz)
Latency	<1ms
Automatic Gain Control	2 microphone is on, increase by 2dB; 3-5 increase by 1dB
Master Gain Control	15×1dB and off (mute)
Transmission Medium	High-speed 6-core digital cable
Harmonic Distortion	<0.5%
Connector	6Cores DIN*5
Ports	RJ45*1 / UPDATE*1 / RS485*1 / RS232*1
Input Channel	4 route 6P DIN
Output Channel	3-way Phoenix terminal + 1-way XLR
Output impedance	470Ω

3. Electrical physical parameters

Item	Parameters
Screen	4.3inch TFT Color capacitive touch screen
Resolution	480x320
Power Consumption	Single unit 10W, maximum load 350W
Power Supply	AC100-240V,50-60Hz
Weight	4000g
Size	2U，483mm x 556mm x 89 mm
Material	Acrylic shell
Temperature	Working: 0 to 45°C; Storage and transportation: -20 to 55°C

Camera Tracking

This device supports the camera tracking function and requires a protocol with the corresponding camera that can support this function.
1. This device supports three protocols: VISCA, PELCO-D, and PELCO-P.
2. The camera control signal line is connected to the 485 control interface of the host computer.
3. Select the required protocol in the host camera menu. (If there is no such option, the host will automatically adapt).4. Adjust the angle of each unit in the camera control menu and save it (see the camera manual). The camera tracking function can be realized.

Others

▪ The wireless subsystem of this device uses both the 600MHz frequency band and the 2.4GHz frequency band. Please use the matching dual-band antenna to work, otherwise, communication failures will occur.

▪ **iMeetingPlat™** is a professional conference system architecture platform technology, consisting of relevant standard interface protocols and patents. Including: wired & wireless 2.4GHz conference system management channel communication protocol, wired & wireless 600MHz conference system voice channel communication protocol, conference system UI control communication protocol.
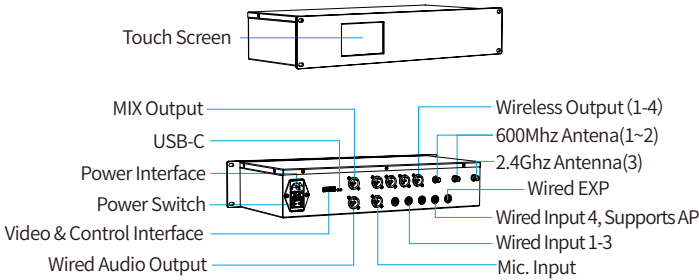
iweex® 未可思 | iMeeting Plat™

XDC236-S1

Wire & Wireless Integated Digital Conference System - Server

Appearance

- Touch Screen
- MIX Output
- USB-C
- Power Interface
- Power Switch
- Video & Control Interface
- Wired Audio Output
- Wireless Output (1-4)
- 600Mhz Antena(1~2)
- 2.4Ghz Antenna(3)
- Wired EXP
- Wired Input 4, Supports AP
- Wired Input 1-3
- Mic. Input

Feature

* Wired & wireless integration, unified speech scheduling & management.
* The wireless subsystem has audio clock synchronous transmission technology with a delay of less than 4ms. The wired subsystem audio uses uncompressed audio transmission to ensure audio quality.
* Wireless gateway (AP) can be used to expand wireless access range.
* MIX channel volume control. The wireless subsystem includes 4 independent channel outputs and 1 MIX output. One MIX audio output for the wired subsystem.
* Supports 4 units speaking at the same time, and the two subsystems are configured uniformly.
* Based on iMeetingPlat™ technology platform, bringing a new user experience. Conference status and configuration are clear at a glance.
*Conference Mode: First in first out / Quantity limited.
* Date, time, day of the week settings / volume and brightness settings / language settings / unit number / wireless environment scan / Visca, Peleco-D, Peleco-P camera protocols.* Supports three roles: Chairman, VIP, and Attendant, software-defined, easy and convenient.
 - **Wired subsystem** -
* Using high-speed 6-core digital cable, the transmission distance can reach up to 150 meters.
* Sampling frequency 48KHz, frequency response 20Hz-20kHz, reaching CD-level sound quality.
* 4 channels of input, each channel can connect to 32 units, 128 units in MAX.
*Support ring hand-in-hand function. Equipped with hot-swappable protection and short-circuit protection.
 - **Wireless subsystem** -
* Real-time frequency scanning, automatic frequency switching technology. The unit uses the optimal frequency every time it speaks.
* Supports wireless gateway access, and the wireless access range is no longer limited by the location of the host.
* The wireless gateway supports up to 256 wireless speaking units.
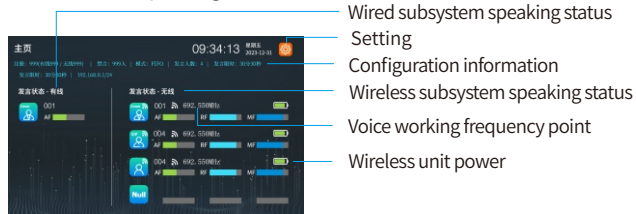*Support handheld unit.

Concept

Cman ⟋ Chairman Role   ⟋ Normal Role   ⟋ Mute

VIP ⟋ VIP Role   ⟋ Wireless Unit   **Null** Channel is idle

- Conference terminal role description：
  - **Chairman**：speak priority and the right to control Normal role for speaking. (Handhold unit do not support this role.)
  - **VIP**：Has priority to speak and cannot be muted.
  - **Normal**：Polling is available when conditions permit.

- With the "**Real-time Monitoring, Automatic Freq. switching**" technology, the host monitors wireless environment and selects the optimal freq. among the 20 freq. So, these 20 freq. should not be used by other equipments:
  668.500 / 669.800 / 671.350 / 672.650 / 674. 450 / 675. 750 / 677. 300 / 678.600 / 680.650 / 682.200 / 683.500 / 685.050 / 687.350 / 688.900 / 690.200 / 692.000 / 693.300 / 694.850 / 696.150 / 697.950（MHz）。
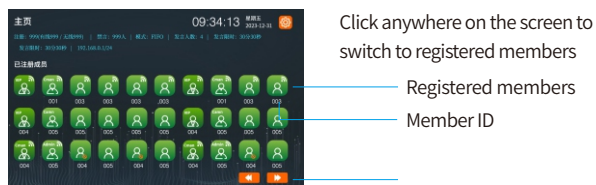
Interface Description

1. Main interface - Speaking status

- Wired subsystem speaking status
- Setting
- Configuration information
- Wireless subsystem speaking status
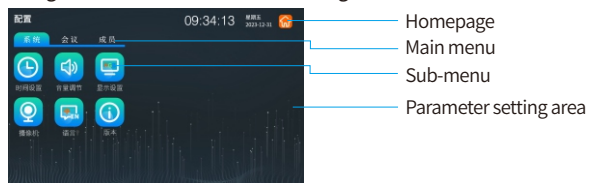- Voice working frequency point
- Wireless unit power

AF: Voice dynamic bar / RF: Voice wireless signal strength / MF: Management wireless signal strength

2. Main interface - Register as a member

Click anywhere on the screen to switch to registered members

- Registered members
- Member ID

3. Configuration interface - General configuration

- Homepage
- Main menu
- Sub-menu
- Parameter setting area

4. Configuration interface - member list

- Member attribute changes
- Select all members
- Select a member
- Turn the page

Configuration instructions

1. 1 System -Time Settings

- Touch the up and down keys to set the date and time.
- The day of the week setting is automatically calculated by the system.

1. 2 System - Volume Settings

- The voice output channels of the wired subsystem and wireless conference subsystem are independent, so the output volume needs to be set separately.
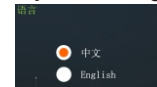
1. 3 System - Display Settings

- This item sets the screen display brightness.

1. 4 System - Camera Settings

- Synchronize settings with video conferencing cameras. This device supports conferencing cameras with 3 protocols: Visca, Peleco-D, and Peleco-P.

1. 5 System - Language Settings

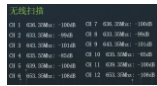- Supports both Chinese/English languages.

1. 6 System - Version

- Display the version numbers of the kernel and interface.

2. 1 Conference - Mode

- **Number:**The number of simultaneous speakers，(including wired & wireless)．
- **Mode：**Conference Moder
  - **FIFO:** First In First Out, Once the QTY of person enters the speech channel overs Number, the first person who enters the speech channel first will be automatically released by the system.
  - **Quantity limit:**The number of speeches is set to n. When the number of people in the speech channel reaches n, other people are no longer allowed to speak; unless someone in the speech channel exits.

2. 2Conference - Wireless Scanning

- The system will automatically scan the wireless environment and display the signal strength of all CH communication.
- The lower the value means the smaller interference. For example: -80dB freq. point is better than -70dB freq. point. It is generally recommended to be below -60dB.

3. 1 Member - Re-Add

- The system will logout all members and rescan all wired and wireless units to be registered to complete the registration.
- The wireless units needs to be in the registered state, otherwise the registration of the wireless units cannot be completed.

3. 2 Members - Add Members

- The system will scan all wired and wireless units to be registered and complete the registration.
- The wired units will flash, short press the speak key to complete the registration. .
- The wireless units needs to be in the registered state be completed.

3. 3 Members - Designated to Add Member

- The system will scan all wired and wireless units, complete the registration of a unit, and set the ID number as specified.
- The wired units will flash, short press the speak key to complete the registration. .
- The wireless units needs to be in the registered state.

3. 4 Members - Member List - All Members

- This item supports operation on the attributes of all members.
- Logout: Logout all members.
- Mute: Mute all Normal (Normal), but VIP & chairman (Cman, Chairman) without being affected.

3. 5 Members - Member List - Individual Members

- This item supports operations on the attributes of a member.
- Logout: Logout the member.
- Role change: Change the member's role.
- Mute: Mute the member. (This option only appears for Normal role members (Normal)).

Topologic

- Server
- Wired Unit（Cman / VIP / Normal）
- Wireless Gateway（AP）
- Handhold Unit（VIP / Normal）
- Wireless Unit（Cman / VIP / Normal）
- Handhold Unit（VIP / Normal）
- Wireless Unit（Cman / VIP / Normal）