iweex 未可思 | **iMeeting Plat™**

XDC236-CHC

Wire & Wireless Integrated Digital Conference System

Handheld Type Terminal

Appearance

- Mic.
- LED
- Normal Mode: Power Switch / Mute
- Setting Mode: Selection
- Cover
- Battery Compartment
- Socket
- Setting Button
- Blocking Bead

Features

* The host unit uniformly manages the speeches of wired and wireless units.
* The wireless subsystem has audio clock synchronization transmission technology with a delay < 4ms. The wired subsystem audio uses uncompressed audio transmission to ensure audio quality with 6-core cable.
* The host can connect to the wireless gateway (AP) to expand the wireless range.

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* Each subsystem has independent audio output, and the volume can be controlled separately. The wireless subsystem includes 4 independent channel outputs and 1 MIX output. The wired subsystem has one MIX audio output.
* Supports 4~8 units speaking at the same time, and the two subsystems are configured uniformly.
* Based on the iMeetingPlat™ technology platform, The conference status and configuration are clear at a glance.
* Conference mode: First-in-first-out / quantity limit.
* Date, time, 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 Normal, software-defined.
- Wireless subsystem -
* Real-time frequency scanning and automatic frequency switching technology. The unit uses the optimal frequency point every time it speaks.
* Supports up to 3 wireless gateways to access.
* The wireless gateway supports up to 256 wireless speaking units.

Concept

Cman ⚇ Chairman Role   ⚇ Normal Role   ⚇ **Mute**

VIP ⚇ VIP Role   ⚏ Wireless Unit   **Null** Channel is idle

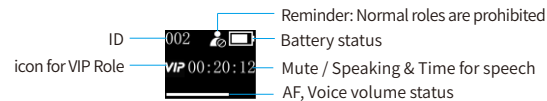- Conference terminal role description：
  - **Chairman:** speak priority and the right to control Normal role for speaking. (Handhold unit do not support this role.)
  - **VIP:** Has priority to speak and cannot be muted.
  - **Normal:** Polling is available when conditions permit.

- 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）。
- **Hybrid power:** The device can be powered by a built-in 18650 battery or 3 external AA batteries. The device will automatically switch according to the battery status.

2. Operation Instruction

- **Power on/off:** Long press the power button.
- **Configuration:** Find the microphone back cover and swipe down to open it. After opening, you can see the settings button.

3. Main

- ID — 002
- icon for VIP Role — VIP 00:20:12
- Reminder: Normal roles are prohibited
- Battery status
- Mute / Speaking & Time for speech
- AF, Voice volume status

- Speaking: Simply press the "Speech" button. The speaking mechanism follows the attending "mode" set by the host side.
- Mute : Short press the "Speech" button.
- Prohibited : Cannot speak when prohibited by the chairman role terminal, such as the right figure.

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4. Setting for Functions

- Short press the setting button to enter the setting state, and the system will switch menus in the following order.
- Short press the "On" button on the front to swith the option values.

- Short press the "On" button on the front to switch the option values.

4.1 Register

Regiester

Regiester Pair...

Regiester OK

Regiester Cancel

- **Registration**: to establish a communication channel between terminals and the host. The successfully registered terminal will be assigned a channel ID number and displayed in the LED. Otherwise, it will be displayed as "---".
- **Pair pairing**: The communication process between the terminal and the host. The activity is effective only with the "Registration" enabled on the host.
- Short press the wheel button to activate Pair pairing. "Pair OK" for success. During pairing, short press the wheel button to cancel pairing.

4.2 Gain

Gain 12dB

- "0dB", "6dB", "12dB". Values matchs the gain of voice signal.

4.3 Debug

Debug Disable

- If activated, the main interface will display signal strength.
- The larger the signal value, the better. For example, -10 indicates is better than -20 for the wireless environment.

4.4 Role

Role Normal

- "Chairman", "VIP", and "Normal " can be set on unregister status, and it needs to be unregistered on the host before modification action.

4.4 Info.
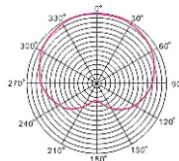
- Hardware and software information.

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Parameters

Physical and Electrical Indicators	
Power Supply	USB 5V + Built-in Lithium Battery
Endurance	>20h
Material Quality	Cast iron & Engineering Plastics
Weight / Size	860g / 150mm x 98mm x 250mm(MAX)
Operating Temperature Range	-18°C ~ 50°C (Battery characteristics maybe limited)
Storage Temperature Range	-29°C ~ 74°C (Battery characteristics maybe mited)

Microphone Indicators	
Type	Capacitive microphone core
Sensitivity	-30±2dB (f=1KHZ,S.P.L=1Pa 0dB=1V/Pa)
Frequency Response	70Hz～16kHz
Operating Voltage Range	1.0V-5.0V
S.P.L (MAX)	105dB (F=1KHz, THD<5%)
SN.	70dB (S:f=1KHz,S.P.L=1Pa; N:A-Weighted curve)
Directivity	

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Communication Indicators	
Communication mode	UHF band radio digital communication
modulation	Audio Communication: Pi/4 DQPSK Control Communication: GFSK
Band	Audio Communication:668MHz ~ 698MHz Control Communication: 2.4GHz
RF Output	<18dBm
Distance	60~120M (related to signal absorption, reflection, interference, and selection)
Freq. Response Attenuation	<2dB（20Hz~20KHz)
S/N	>97dB
T.H.D	<0.03%（@1KHz)
Time Delay	<4ms
Antenna	Audio Communication:600MHz Antenna *2 Control Communication: 2.4GHz Antenna *1

Other Instructions

- iMeetingPlat™ is a professional conference system architecture platform technology, consisting of relevant standard interface protocols and patents. iMeetingPlat™ complies with the international GPL open source agreement.

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