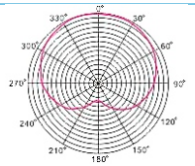
3. 电气物理参数

项目	参数
屏幕	2.8吋TFT全彩显示屏
分辨率	320x240
供电	有线模式：线缆供电 无线模式：内置18650电池 或 外置AA电池（*3）供电，自动切换。 （混用动力技术）
续航	>6h @发言 / > 16h @待机
重量（克）	底座：1200g / 鹅颈咪杆：240g / 直杆咪杆：400g （不同型号，咪杆不同，可能存在差异。）
尺寸规格	底座：400mm*150mm*90mm 鹅颈咪杆：L=420mm; R=45mm 直杆咪杆：400mm*40mm*35mm
材质	铸铝+铸铁+工程塑料
温度范围	工作：0至45°C；储运：-20至55 °C（低温可能影响锂电池性能）

4. 声学参数

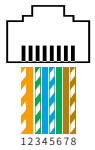
麦克风指标	参数
类型	电容咪芯
灵敏度	-30±2dB (f=1KHZ,S.P.L=1Pa 0dB=1V/Pa)
频响范围	70Hz～16kHz
工作电压范围	1.0V-5.0V
最大S.P.L	105dB (F=1KHz, THD＜5%)
信噪比	70dB (S:f=1KHz,S.P.L=1Pa; N:A-Weighted curve)

指向性



注意事项

- 不建议带电状态下热插拔操作。
- 不建议新旧电池混用。
- 设备使用时，避免书本、线缆等杂物压住或遮盖发言键区域，由此可能导致发言键功能激活。
- 有线模式，推荐采用6芯线缆。
- 如采用网线链接该会议终端，需注意以下事项：
  1. 推荐采用超五类屏蔽网线，网线质量会影响传输距离。
  2. 推荐采用高质量的水晶头，否则可能造成接触不良。
  3. 网线线序需要符合T-568B标准（直通网线，见右图）。
  4. RJ45接口功能相同，无出入区别。



其他说明

- **iMeetingPlat™** 为专业的会议系统架构平台技术，由相关的标准接口协议及专利组成。包括：有线&无线2.4GHz会议系统管理信道通信协议、有线&无线600MHz会议系统语音信道通信协议、会议系统UI控制通信协议。

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深圳市睿臻信息技术服务有限公司
infoSVC Co., Ltd

XDC236-CXS/CXG

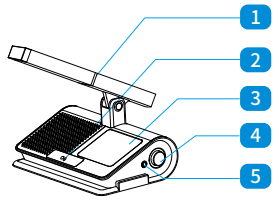
有线无线融合数字会议系统 - 融合单元

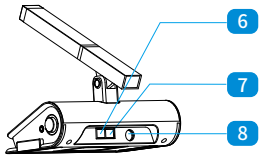
Wire & Wireless Integrated Digital Conference System - Integrated Unit

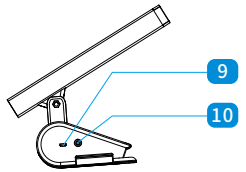
融合系统　数字音频　自动切频　摄像头跟踪　便捷体验　信号稳定　混用动力

产品外观

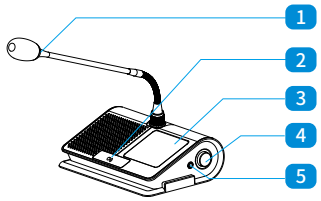
XDC236-CWS1







XDC236-CWG1



1 指示灯
2 屏幕
3 发言/禁言触摸键
4 SET 旋钮按键
5 POWER 按键
6 RJ45 接口
7 RJ45 接口
8 6芯同轴线接口
9 USB 充电口
10 3.5mm耳机输出

（不同子型号，咪杆可能存在差异，不影响说明书使用）

系统特性

* 有线无线融合，主机对有线单元、无线单元统一发言调度、管理。
* 无线模式，采用600Mhz频段数字通信技术，有效避开蓝牙、WIFI干扰，无线信号覆盖范围可大于80米。
* 主机可有线连接会议系统无线网关（AP），扩展无线接入范围。
* 自动跳频技术：无需给终端配置频点。无线模式下，系统实时监测20个频点，单元在每次发言时跳频至最优频点。
* 无线子系统具有音频时钟同步传输技术，延时小于 4ms。
* 无线网关支持最多999个无线发言单元。
* 有线子系统音频采用非压缩音频传输，确保音频质量。
* 有线子系统支持环路链路备份，主机备份机制。
* 各子系统音频独立输出，可分别控制音量大小。
* 支持4~8个单元同时讲话，两个子系统统一配置。

* 有线子系统4路输入，每路最多接32台，最大支持128台单元。
* 基于iMeetingPlat™技术平台，带来全新用户体验。会议状态、配置一目了然。
* 先进先出 / 数量限制。
* 日期、时间、星期设置 / 音量和亮度设置 / 语言设置 / 单元编号 / 无线环境扫描 / Visca、Peleco-D、Peleco-P 摄像机协议 / 投票 / 签到。
* 主席、VIP、列席三种角色，软件定义。

- 融合终端 -

* 支持有线/无线模式，自动切换。插入线缆时为有线模式；拔出线缆，自动切换无线模 式。
* 同时支持6芯插口+RJ45插口切换使用。
* 可使用6芯线缆或者网线链接，传输距离最远可达150米。
* 支持环型组网线路备份功能。
* 具备热插拔保护，短路保护功能。
* 采样频率 48KHz，频率响应20Hz-20kHz,达到 CD 级音质效果。
* 2.8吋显示屏，扁平化UI设计，操作方便。
* “混合动力技术”：内置18650充电锂电池+外置AA电池，自适应切换。

使用说明

1. 图标说明

该终端为无线接入　　该终端为有线接入

Cman　Chairman主席角色　　Normal 普通列席角色

VIP　VIP角色　　已被禁言

2. 角色功能说明

- **主席（Chairman / Cman）**：拥有发言优先权，且拥有对普通列席（Normal）发言控制权，可禁止普通列席（Normal）发言。
- **VIP列席(VIP)**：拥有发言优先权，不能被禁言。
- **普通列席(Normal)**：在条件允许情况下可以轮询发言。

3. 主界面

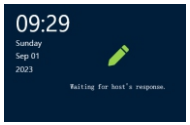


4. 基本操作

- **有线/无线模式**：插入连接线与主机联系时，自动切换为有线模式；无连接线插入时，自动切换为无线模式。
- **开机/关机**：有线模式下，本终端接入会议系统后，开机关机跟随主机状态。无线模式下，长按Power/Set键，将开机或关机。无线模式下，本设备与主机失去信号联系后5分钟，自动关机。
- **供电**：本设备采用iweex®未可思®的“混合动力技术”，内置18650锂电池，也可安装外置AAA电池（x3）供电。内置电池优先供电，设备自动切换。
- **配置**：有线模式下，主机可同步相关配置信息给终端，终端可进行部分配置；无线模式下，所有配置需在终端上进行操作完成。
  短按Power键或Set键即可进入配置界面。
  配置界面下，旋转Power键,可选择不同菜单项目，短按Power键或Set键即可确定选项。
- **发言**：触按发言键即可发言。如被禁言，屏幕将显示禁言图标，此时不能发言。
- **禁言**：主席（Cman，Chairman）终端，长按发言键时激活本功能。此时，所有普通列席将被禁止发言，同时显示禁言图标。松开按键后，禁言结束。

5. 注册&注销

- **注册**：终端必须注册入主机会议系统，才能实现功能。
  有线模式下，注册由主机发起。将终端通过线缆链接主后。在主机发起注册操作，本终端发言键LED将闪烁。此时，短按发言键确认注册。
  无线模式下，本终端先进入注册状态（在注册菜单中操作），显示屏将显示“等待主机响应”（见右图）。然后，在主机发起注册操作。此时，主机和终端将自行通信，完成注册操作，并显示成功信息。
  注册成功后，主页将显示终端ID编号。



- **注销**：注销操作只能在主机上进行。注销后，终端主页不再显示ID编号。
- **角色更改**：仅在注销状态下，终端上才可以更改角色。注册状态下，可以在主机上更改相应终端的角色。

配置说明

1. 配置界面



有线模式



无线模式

2. 系统配置说明

- **角色（Rale）**：角色配置设置。仅在注销状态下，终端上才可以更改角色。注册状态下，可以在主机上更改相应终端的角色。
- **音量（Volume）**：控制该终端的输出音量。有线模式下，调节范围为1~5；无线模式下，调节范围为1~7。推荐值：4~5。
- **语言（Language）**：可以切换语言，中文/English。
- **调试（Debug）**：工程故障时候，用于检测故障，可统计故障报文次数，各单元是否存在语音故障。
- **信息（Info）**：显示系统的软硬件软件版本。
- **功率（RF Power）**：无线状态下，设置无线发射功率，高 / 中 / 低三档。功率越大无线传输距离越远，同时更加耗电。

- **电池（Battery）**：管理电池使用模式：内置锂电池优先供电、外置AA电池优先供电。该菜单下显示各电池的电压状态以及剩余电量（仅供参考）。
- **注册（Reg.）**：无线状态下，完成终端在会议系统的注册。进入该菜单，终端将处于等待主机注册信号状态，并会自动响应。

主要参数

1. 有线子系统参数

项目	参数
综合S/N	>88dB
动态范围	88dB
综合T.H.D	＜0.1%（@1KHz）
频响（Hz）	50~16KHz
频响衰减	<1dB（20Hz~20KHz）
传输时延(ms)	<1ms
主增益控制	4×3dB和关闭（静音）
传输介质	专业高速6芯数字电缆 / 六类网线
单元连接头	6芯大DIN / RJ45
输出阻抗	470Ω

2. 无线子系统参数

项目	参数
通信模式	语音信道：数字通信，　控制信道：数字通信
调制方式	语音信道：PI/4 DQPSK；管理信道：GFSK
载波频段	668MHz~698MHz
载波频段	30MHz
综合S/N	>96dB
综合T.H.D	<0.2%（@1KHz）
频响（Hz）	30Hz~18KHz
频响衰减	<3dB（20Hz~20KHz）
传输时延(ms)	4.17ms
有效传输距离	基于不同终端、不同的音质，达到50~80m距离
天线	600MHz天线*1＋2.4GHz天线*1

Parameters

1. Wired Subsystem

Item	Parameters
S/N	>88dB
Dynamic Range	88dB
T.H.D	＜0.1% (@1KHz)
Freq. Response	50~16KHz
Freq. Response Attenuation	<1dB (20Hz~20KHz)
Latency	<1ms
Master Gain Control	4×3dB and off (mute)
Transmission Medium	High-speed 6-core digital cable / Category 6 network cable
Connector	6Cores DIN*5
Ports	RJ45*1 / UPDATE*1 / RS485*1 / RS232*1
Input Channel	4 route 6P DIN
Output impedance	470Ω

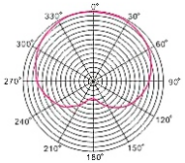
2. Wireless Sub-system

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	<3dB (20Hz~20KHz)
Latency	4.17ms
Distance	50~80m(Distraction-free environment)
Antenna	600MHz Antenna &2.4GHz Antenna

3. Acoustic

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

Directivity



3. Electrical & Physical

Item	Parameters
Screen	2.8inch TFT Color capacitive touch screen
Resolution	320x240
Power Supply	Wired mode: Powered by cable Wireless mode: Powered by built-in 18650 battery or external AA battery (*3), automatically switched. (Hybrid power technology)
Latency	>6h @ Speaking / >16h @Standby.
Weight	Base: 1200g Gooseneck pole: 240g Straight pole: 400g (Different models and pole may have differences.)
Size	Base：400mm*150mm*90mm Gooseneck pole：L=420mm; R=45mm Straight pole：400mm*40mm*35mm
Material	Cast iron + engineering plastics
Temperature	Working: 0 to 45°C; Storage and transportation: -20 ~ 55°C

Others

- **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.

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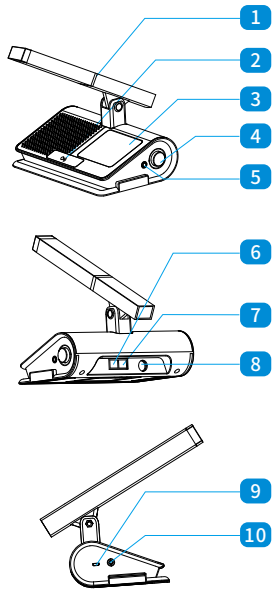
XDC236-CXS/CXG

Wired & Wireless Integrated Digital Conference System

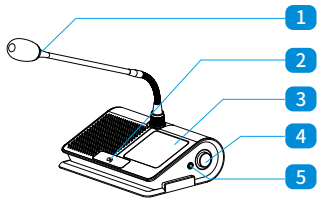
Integrated Unit

Appearance

XDC236-CWS1



XDC236-CWG1



1. Indicator light
2. Screen
3. Speak/mute touch button
4. SET knob button
5. POWER button
6. RJ45 interface
7. RJ45 interface
8. 6-core cable interface
9. USB charging port
10. 3.5mm headphone output

* There may be differences in microphone rod components for different sub-models, which does not affect the use of the instructions.

Features

* Wired and wireless integration, the host coordinates and manages the speech of wired and wireless units.
* In wireless mode, the 600Mhz frequency band digital communication technology is used to effectively avoid Bluetooth and WIFI interference, and the wireless signal coverage range can be greater than 80 meters.
* The host can be wired to the wireless gateway (AP) of the conference system to expand the wireless access range.
* Automatic frequency hopping technology: there is no need to configure the frequency for the terminal. In wireless mode, the system monitors 20 frequencies in real time, and the unit hops to the optimal frequency each time it speaks.
* The wireless subsystem has audio clock synchronization transmission technology with a delay of less than 4ms.
* The wireless gateway supports up to 999 wireless speaking units.
* The wired subsystem audio uses uncompressed audio transmission to ensure audio quality.

* The wired subsystem supports loop link backup and host backup mechanism.
* Each subsystem audio is independently output, and the volume can be controlled separately.
* Supports 4~8 units speaking at the same time, and the two subsystems are uniformly configured.
* 4 inputs for the wired subsystem, each of which can connect up to 32 units, and supports a maximum of 128 units.
* Based on the iMeetingPlat™ technology platform, it brings a new user experience. Meeting status and configuration are clear at a glance.
* 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 / voting / sign-in.
* Chairman, VIP, attendee three roles, software defined.

- Integrated terminal -

* Support wired/wireless mode, automatic switching. When the cable is inserted, it is wired mode; unplug the cable and automatically switch to wireless mode.
* Support 6-core jack + RJ45 jack switching at the same time, and can use 6-core cable or network cable, with a transmission distance of up to 150 meters.
* Support ring hand-in-hand function. With hot plug protection and short circuit protection function.
* Sampling frequency 48KHz, frequency response 20Hz-20kHz, achieving CD-level sound quality.
* 2.8-inch display, flat UI design, easy to operate.
* "Hybrid technology": built-in 18650 rechargeable lithium battery + external AA battery, adaptive switching.

Instructions

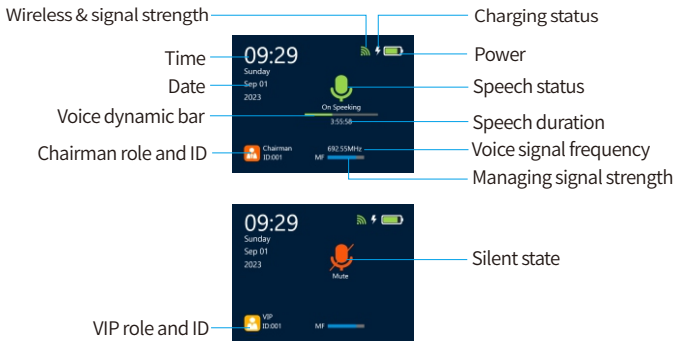
1. Icon Description

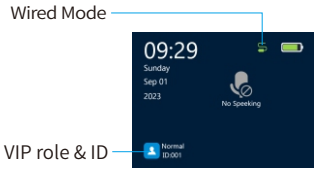
	Wireless Mode		Wired Mode
Cman	Chairman Role		Normal Role
VIP	VIP Role		Mute

2. Conference terminal role description

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

3. Main interface





4. Basic Operation

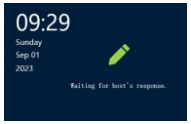
- **Wired/wireless mode:** When the connection cable is inserted to connect with the host, it automatically switches to wired mode; when no connection cable is inserted, it automatically switches to wireless mode.
- **Power on/off:** In wired mode, after this terminal is connected to the conference system, the power on and off follow the host status. In wireless mode, long press the Power/Set key to turn on or off this terminal. In wireless mode, the device will automatically shut down 5 minutes after losing signal contact with the host.
- **Power supply:** This device uses iweex®'s "hybrid technology", built-in 18650 lithium battery, and can also be powered by external AAA batteries (x3). The built-in battery has priority power supply, and the device automatically switches.
- **Configuration:** In wired mode, the host can synchronize relevant configuration information to the terminal, and the terminal can perform partial configuration; in wireless mode, all configurations need to be completed on the terminal.Short press the Power key or Set key to enter the configuration interface.In the configuration interface, rotate the Power key to select different menu items, and short press the Power key or Set key to confirm the option.
- **Speak:** Touch the Speak key to speak. If you are muted, the screen will display the muting icon, and you cannot speak at this time.
- **Mute:** For the Chairman (Cman) terminal, long press the Speak key to activate this function. At this time, all ordinary attendees will be prohibited from speaking, and the mute icon will be displayed. After releasing the key, the mute ends.

5. Register & Logout

- **Registration:** The terminal must be registered with the host conference system to realize the function.

  In wired mode, registration is initiated by the host. Connect the terminal to the host through a cable. When the host initiates the registration operation, the LED of the terminal's speech key will flash. At this time, short press the speech key to confirm the registration.

  In wireless mode, this terminal first enters the registration state (operate in the registration menu), and the display will show "Waiting for host response" (see the right picture).

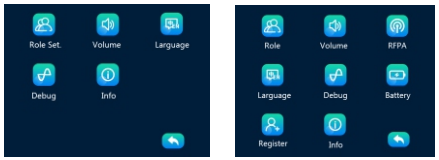
  Then, the host initiates the registration operation. At this time, the host and the terminal will communicate by themselves, complete the registration operation, and display a success message.

  After successful registration, the homepage will display the terminal ID number.
- **Logout:** Logout can only be performed on the host. After logging out, the terminal homepage will no longer display the ID number.

- **Role change:** The role can be changed on the terminal only when it is logged out. The role of the corresponding terminal can be changed on the host when it is registered.

Configuration Instructions

1. Configuration interface



Wired Mode Wireless Mode

2. System Configuration Description

- **Role :** Role configuration settings. The role can be changed on the terminal only in the logged-out state. In the registered state, the role of the corresponding terminal can be changed on the host.
- **Volume:** Control the output volume of the terminal. In wired mode, the adjustment range is 1~5; in wireless mode, the adjustment range is 1~7. Recommended value: 4~5.
- **Language :** You can switch the display language, Chinese/English. ▪ Information (Info): Display the software and hardware software versions of the system.
- **RFPA (RF Power):** Set the terminal transmission power, high/medium/low three gears. The greater the power, the longer the wireless transmission distance, and the more power consumption.
- **Debug** : When an engineering failure occurs, it is used to detect the failure, count the number of failure messages.
- **Info** : Version information.
- **Battery:** Manage battery usage mode: built-in lithium battery priority power supply, external AA battery priority power supply. The voltage status and remaining power of each battery are displayed under this menu (for reference only).
- **Registration:** In wireless mode, complete the registration of the terminal in the conference system. Entering this menu, the terminal will be in a state of waiting for the host registration signal and will respond automatically.

Notes

- It is not recommended to hot-swap when the host is powered on.
- It is not recommended to mix old and new batteries.
- Please avoid books, cables and other debris pressing or covering the speaking key area, which may cause the speaking key function to be activated.
- In wired mode, it is recommended to use a 6-core cable.
- If the network cable be used to connect the host, please note the following:
  1. It is recommended to use a Category 5e shielded network cable. The quality of the network cable will affect the transmission distance.
  2. It is recommended to use a high-quality crystal head, otherwise it may cause poor contact.
  3. The network cable sequence must comply with the T-568B standard (straight-through network cable, as the right picture).
  4. The RJ45 interface has the same function and there is no difference in input and output.

