中文

GAODIMIC® | iMeetingPlat™

有线无线融合数字会议系统 - 手持终端

Wired & Wireless Integrated Digital Conference System - Handheld Type Terminal

XDC236-CH1

产品外观



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。
* 无线子系统具有音频时钟同步传输技术，延时小于 4ms。有线子系统音频采用非压缩音频传输，确保音频质量。有线子系统采用定制屏蔽6芯线缆。
* 主机可有线连接会议系统无线网关（AP），扩展无线接入范围。
* 各子系统音频独立输出，可分别控制音量大小。无线子系统包含 4路独立通道输出和1路MIX输出。有线子系统一路MIX音频输出。
* 支持4个单元同时讲话，有线及无线子系统统一配置。
* 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。
* 会议模式：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。
* 实时扫频，自动切频技术。单元在每次发言时使用最优频点。
* 无线子系统支持最多999个无线发言单元。
* 手持会议单元支持VIP、列席两种角色，软件定义，成员属性管理轻松便捷。

使用说明

1. 基本概念及操作

- **会议终端角色说明：**
  - **主席(Chairman / Cman)：**拥有发言优先权，对普通列席(Attendance)发言控制权，可禁止普通列席(Normal)发言。(手持单元不支持)。
  - **VIP列席(VIP / V)：**拥有发言优先权，不能被禁言。
  - **普通列席(Normal / D)：**在条件允许情况下可以轮询发言。

2. 基本操作

- **混用动力：**本设备采用“混合动力技术”，可使用14500锂电池，或AAA电池供电。设备自动切换。
- **开机 / 关机：**长按开关键。
- **配置：**找到麦克风背盖，向下划动，即可打开，打开后即可看到设置键。

3. 主界面



- 发言：短按正面“开关”键即可。
- 禁言：短按正面“开关”键可自己禁言，不再参与发言。被主席或管理员禁言：普通列席可被主席单元或主机禁言。
- D：普通列席角色；V：VIP角色。

4. 进入设置状态进行配置修改

- 短按设置键进入设置状态，不断短按设置键，系统将按以下次序切换菜单。
- 选中目标菜单后，短按正面“开关键”即可调改菜单的配置值。

4.1 角色(Role)



- 未注册时可切换：“VIP列席”、“Normal普通列席”。
- 如已注册，需要在主机上注销后才可以修改。

4.2 音量(Volume)



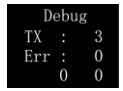
- 可切换音量：“1 ~ 7”。数值越大，信号发射前增益越大。

4.3 发射功率(RF Power)



- 可切换发射功率：High, Middle, Low。
- 信号发射功率越大，传输距离越远，越耗电。

4.4 调试模式(Debug)



- 工程故障时，问题分析时工具。
- TX为发射机发送报文数量，Err为接收报文错误数量。

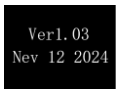
4.4 注册(Register)



注册　匹配　注册成功　注册取消

- **注册(Register)：**选择“Register”后，即启动。注册成功的终端将被主机分配通道ID，并在LED左上角显示，否则，显示为“---”。
- **在会议主机开启“注册”功能后，**终端才可以进行有效的配对。
- 如配对成功，即显示“Register OK”，同时显示新分配的通道ID。
- 配对中状态下，短按开关按键即取消配对，显“Register Cancel”。

4.5 信息



- 展示硬件型号、软件版本、出厂时间等信息。

主要参数

物理电气指标	参数
供电	14500锂电池(3.7V) *2 或 5号电池(1.5V)*2 [混用动力技术]
续航能力(小时)	＞10h(锂电池) / 3.5h(AA 5号电池)
工作温度范围	-18°C ~ 50°C (电池特性可能会限制该范围)
重量	150g，无电池
尺寸	L=245mm；R=38mm
材质	铸铝+工程塑料
存储温度范围	-29°C ~ 74°C (电池特性可能会限制该范围)

项目	参数
通信模式	语音信道：U段数字通信；管理信道：2.4G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；
综合S/N	>96dB
综合T.H.D	＜0.2%(@1KHz)
频响	30Hz~18KHz
频响衰减	<2dB(50~16KHz)
时延	<4ms
相位偏差	30Hz低音偏离<30°；18KHz高音偏离<60°
有效传输距离	80M

麦克风指标	参数
类型	动圈咪芯
灵敏度	0^0 - 71dB±3dB (0dB=1V/ubar @ 1KHz)
频响范围	50Hz～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

其他说明

- 本会议系统采用**iMeetingPlat™** 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。**iMeetingPlat™** 遵循国际GPL 开源协议。

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Wired & Wireless Integrated Digital Conference System

Handheld Unit

XDC236-CH1

Appearance



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.
* 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 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.
* Real-time frequency scanning and automatic frequency switching technology. The unit uses the optimal frequency point every time it speaks.
* The wireless gateway supports up to 999 wireless speaking units.
* Supports three roles: VIP, and Normal, software-defined.

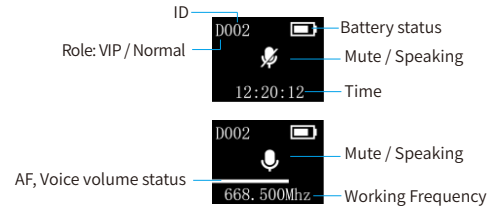
Concept

- **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.
- **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



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

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.

4.1 Role



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

4.2 Volume



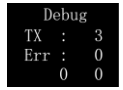
- Switchable volume: “1 ~ 7”. The larger the value, the greater the gain before the signal is transmitted

4.3 RF Power



- Switchable transmission power: High, Middle, Low.
- The greater the RF Power, the longer the transmission distance and the more power consumption.

4.4 Debug



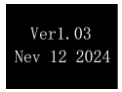
- When there is any failure, it is a tool for problem analysis.
- TX is the number of messages sent by the transmitter, and Err is the number of errors in the received messages.

4.4 Register



- **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.

4.5 Info



- Displays information such as hardware model, software version, and production time.

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)
	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
	Microphone Indicators
Type	Dynamic Microphone
Sensitivity	0^0 - 71dB±3dB (0dB=1V/ubar @ 1KHz)
Frequency Response	50Hz ~ 16kHz
Directivity	Single pointing
S.P.L (MAX)	105dB (F=1KHz, THD＜5%)
SN.	70dB (S:f=1KHz,S.P.L=1Pa; N:A-Weighted curve)

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.
- 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)。

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