

TAKSTAR® 得胜



DG-S60

有线手拉手会议系统

Wired Daisy-Chain Conference System

使用手册 | User Manual

DG-S60 有线手拉手会议系统

■ 前言

感谢您选购得胜DG-S60有线手拉手会议系统，该系列产品是一款全新智能型视像跟踪数字会议系统，完美地将全数字技术和综合网络技术全面地引入到会议系统中，把先进的数字技术、网络技术和音频技术充分地结合起来。可与智能手机系统、中央控制系统、视频会议系统实现了无缝连接，为高效的现代会议系统工程提供更完整的解决方案。

系统中会议单元之间采用“手拉手”连接技术安装简单，并且支持级联功能。系统支持48kHz音频采样频率，频率响应均可达20Hz-20kHz。系统由会议控制主机、会议单元和应用软件组成。其中会议单元有主席发言单元、代表发言单元，应用软件则由多个应用软件模块组成。为了您能够更好地了解使用本产品，建议您在使用前仔细阅读本说明书。

若存在有疑问或者您有宝贵的建议，可通过拨打得胜官方服务热线
400 6828 333或微信扫描二维码关注得胜官方公众号与我们联系。



■ 产品特性

主机

- 采用数字技术为核心，内置高性能CPU，支持讨论和视像跟踪功能；
- 采用数模实现声音信号传输，高保真，信噪比高，无声音延时。使用独有的新型防啸叫单指向高灵敏度电容咪芯，使会议声音几近完美；
- 自带4.3寸TFT触摸屏、可选择英文、简体、繁体显示中文界面操作简便，提高调试效率。
- 具有1路USB接口，支持插入U盘设备进行录音功能；
- 四路话筒连接，每路支持30个单元，可接120个单元，主席数量不受限制，支持8芯和RJ45网线连接；
- 八路RJ45连接，每路支持20个单元，可接120个单元，主席数量不受限制；
- 具备声控启动话筒功能及门限级别可调节；
- 具备先进先出、后进先出、数量限制、主席优先、限时发言、自由讨论、申请模式7种会议模式；
- 发言人数可设置为1-12个，主席不受数量限制，自由讨论模式不受限制可全部打开；
- 音频信号采用32bit高速浮点DSP进行处理，带宽20Hz~20KHz完美清晰音质；
- 支持发言计时功能，显示屏可动态显示时间；
- 具备自动检测功能，具有主席单元、代表单元数量检测、音频检测、按键检测及清单显示功能；
- 采用ID寻址方式，可自定义单元编号，保证唯一ID编号，能有效避免ID重复冲突；
- 具备线路带电“热插拔”功能，支持自动修复与快速定位系统故障，并不影响其它设备的运行；
- 内置摄像跟踪功能：支持PELCO-D、PELCO-P、SONY等协议，具备调节、保存、调用预置位；
- 支持扩展外置视频切换矩阵；
- 具备RS-232、RS-422与RS-485三种控制接口与控制方式，摄像机之间可串联或并联连接；
- 具备在线设置与修改单元身份，主席单元、代表单元身份可根据需求重新分配与设置；
- 具有断电自动记忆功能，通电后不需再次设置即可使用，并可还原出厂设置；

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- 可同时连接红外翻译系统、电话耦合器、本地扩声系统、外部录音设备、远程多媒体终端;
 - 恢复出厂值功能, 支持一键复位至出厂状态, 防止调乱参数。
- 单元座

 - 单元8芯和双网口共用, 任意选择8芯线或者网线;
 - 铝合金面板, 整体高档庄重, 符合现代审美标准;
 - 超强指向性麦克风拾音技术, 拾音灵敏、语音清晰, 带宽达到20Hz~20KHz;
 - 采用防干扰电路设计, 可防止手机等电子产品的干扰;
 - 话筒头部带发言灯圈, 可显示单元发言、关闭状态;
 - 带深色弧形镜面, 不通电时可隐蔽显示屏, 尽显高档气息;
 - 具有2.4寸TFT彩色显示器, 显示内容清晰, 可选择英文显示, 繁体显示中文界面操作简便,提高调试效率;
 - 单元为无源设备, 由系统主机供电, 输入电压为24V, 属安全范围;
 - 线材采用全铝箔、水线屏蔽, 大大降低强电磁波对线材的干扰;
 - 支持多个主席单元, 连接时不受位置限制可任意安装, 具有全权控制会议秩序的优先功能, 可控制会议气氛。

■ 适用范围

适用于企事业单位、政府机关等会议室安装场合

■ 产品配置

主机

会议主机	1台
10米主线缆	1条
电源线	1条
6.35mm音频连接线	1条
控制线	1条
说明书	1份

鹅颈单元

鹅颈会议底座	1台
咪杆	1个
T型线/网线	1条
防风棉	1个

方杆单元

方杆会议单元	1台
T型线/网线	1条

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■ 技术参数

主机

- 主机供电: AC110V-220V/50Hz
- 频率响应: 20Hz-20kHz
- 信噪比: > 96dBA
- 总谐波失真: < 0.05%
- 录音接口: USB
- 话筒单元接口: 圆头DIN-8插座接口×4
- 话筒单元接口: RJ45接口×4
- 中控连接口: 232串口×1
- 视频切换通讯接口: 232串口×1
- 摄像头控制连接口: 5P接线端子, 凤凰插
- 电脑接口: USB接口×1
- 音频输入: RCA (莲花插座) ×1
- 音频输出: RCA (莲花插座) ×2 、XLR卡侬插座×1、6.35mm接口×1
- 外部尺寸 (L×W×H) : 483×323×90mm
- 重量: 4.5KG
- 颜色: 黑色/灰色喷砂
- 安装方式: 19英寸标准机柜

单元座

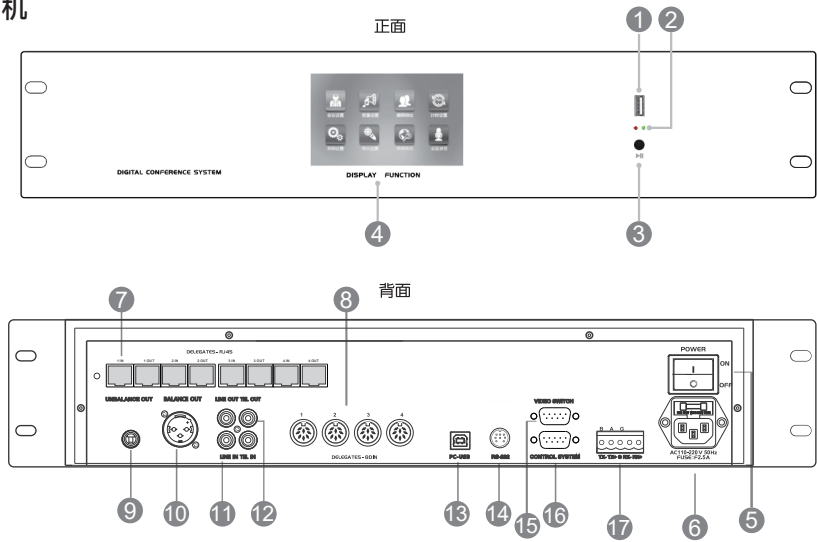
- 输入、输出接口: RJ45/DIN-8P
- 音头: 单14mm电容式
- 指向性: 心型指向
- 灵敏度: -45dBV/Pa
- 输入阻抗: 2KΩ
- 等效噪声: 20dBA (SPL)
- 话筒最大声压级: 125dB(THD < 3%)
- 频率响应: 20Hz~20KHz
- 通道串音: > 80dB
- 总谐波失真: < 0.05%
- 显示屏: 2.4 IPS TFT
- 单元座尺寸: 104*147*44mm
- 重量: 1.75kg

注: 以上数据由得胜实验室测试得到, 并拥有最终解释权!

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■ 功能示意

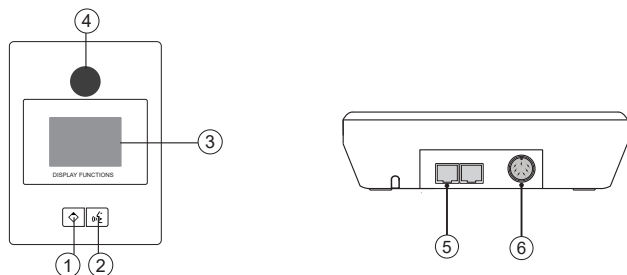
主机



- ① 录音输出接口
- ② 工作指示灯
- ③ "ENTER"键
- ④ 高清4.3 寸 IPS TFT屏
- ⑤ 电源开关
- ⑥ 电源输入接口（使用三针接地插头）
- ⑦ 会议单元接口（RJ45，共4组）
- ⑧ 会议单元接口（8芯共4路）
- ⑨ 原音通道线路输出接口（6.3mm插口非平衡输入）
- ⑩ 原音通道线路输出接口（3 芯 XLR 平衡输出）
- ⑪ 背景音乐音频输入口（RCA×1）
- ⑫ 音频输出口（RCA×3）
- ⑬ USB本地通讯连接接口
- ⑭ 摄像头232通讯接口
- ⑮ 高清视频232切换器接口
- ⑯ 中央控制系统232接口
- ⑰ 摄像头232通讯接口、422通讯接口、485通讯接口（凤凰插接口）

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单元座



① 优先权键&话筒开关键（主席单元）：按下此键可直接开关话筒，开启时指示灯圈红灯常亮；关机时同步将所有开启的代表单元话筒关闭。

② 话筒开关键（代表单元）：按下此键可开关话筒，当话筒开启时，话筒指示灯圈红灯常亮。

③ 高亮度320×240IPS TFT显示屏：在线显示多种语言（简体中文、英文）的菜单。

④ 使用方管时为固定式方形麦克风管接口（不可拆卸）

⑤ RJ45插座

⑥ 8P插座

■ 使用说明

一、功能与特色说明

1. 讨论功能话筒设置

可设置五种“发言模式”：

①“先进先出”模式，达到发言人数限制后，最先开启的发言单元被后来开启的发言单元关闭。

②“限制模式”模式，达到发言人数限制后，不能打开。

③“自由模式”模式，最多允许20台代表发言单元同时开启，不受主机发言人数限制。

④“后进先出”模式，达到发言人数限制后，最后开启的发言单元被后来开启的发言单元关闭。

⑤“主席模式”模式，只有主席单元能打开。

可设置“1-12”个发言人数；

可设置两种“发言时间模式”。

⑥“定时模式”模式，可以设置“0-999”秒，设定时间达到后话筒自动关闭。

⑦“自动模式”模式，可以设置“0-999”秒，设定时间后，话筒若在设定时间内不发言，话筒会自动关闭。

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2. 最多支持1200支话筒同时使用，符合国际大会方案要求。

3. 摄像机自动跟踪功能

配备“SONY VISCA、PELCOP、PELCO D”通讯协议摄像机可以实现自动跟踪功能，并可对会场全景和发言人进行录音和录像。

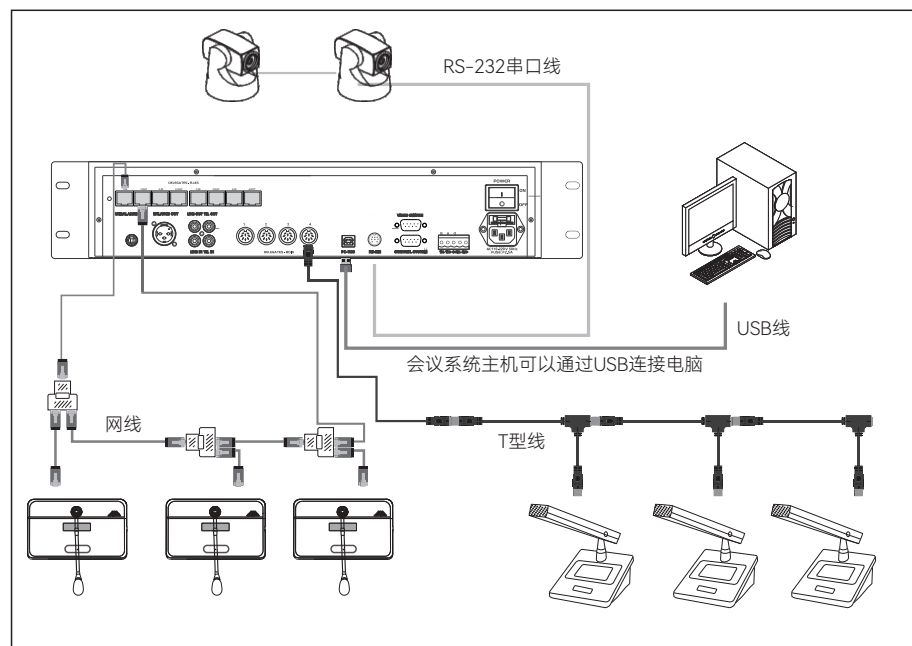
4. 全方位的会议管理

会议办公自动化，将常规和繁琐的工作安排得井井有条，最及时地处理和发布各种信息数据；提供对会场环境、会议进程、代表安排等全面的控制功能。

5. 与会议签到系统、中控系统无缝联接

会议系统与大部分智能中央控制系统实现了无缝连接，从而形成了完备的会议系统解决方案，不仅能具备基本的会议功能，并全面管理会议现场中的多媒体周边设备、环境灯光、投影显示及音响系统等。

二、系统拓扑图



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三、系统连接

3.1 与会议主机的连接

会议系统主机有4组共8路RJ45的话筒单元接口及4路8P-DIN会议单元输出接口，系统自带一条公头标准电缆线（RJ或8P-DIN接口）和随底座配送相应的连接线。

主机与会议单元连接时，只要将第一台会议单元的RJ接口网线或8P-DIN公头连接到主机输出接口即可。

在主机与会议单元距离较远时，推荐使用8P-DIN延长电缆，该电缆两端分别为8P-DIN公头和8P-DIN母头。将延长电缆8P-DIN母头与会议单元自带的8P-DIN公头标准电缆线或T型连接线对接。再将延长电缆的8P-DIN公头连接到主机输出接口即可。

3.2 会议单元之间的连接

该系列会议单元采用手拉手式的连接方式，使得所有系统的安装简便快捷。

8芯接口的发言单元与另一台会议单元连接时，只需将其配备的8芯T型线的横向公头对接上一条8芯T型母头相互对接即可。

网线接口的发言单元与另一台会议单元连接时，只需接上两条网线线，按手拉手的方式连接即可。

3.3 系统预设置

按上述说明连接好会议单元后，初次按下电源开关系统主机会进入待机状态.如下图：



按触摸屏任意位置，进入主界面，如下图：

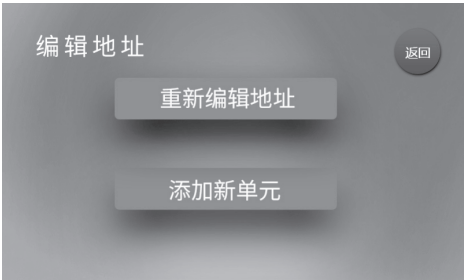


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按下“会议设置”图标，进入会议设置菜单，设置发言模式及发言人数，如图：



回到主界面，选择编辑地址，进入编辑地址菜单。如图：



依次按话筒发言按键编辑地址，下图界面会出现主席代表单元的数量，然后选择按“按确定结束”完成话筒地址的编辑。如图：



3.4 USB录音功能

3.4.1操作方法

- 1. 在主机前面板插入U盘。
- 2. 主机自动识别U盘，此时按下主机前面板"ENTER"键，指示灯开始红灯闪烁并录音。
- 3. 会议结束后，按下"ENTER"键,指示灯停止闪烁并结束录音，系统会将录音文件自动保存在U盘上。

四、会议单元由会议系统主机供电，因此主机可以连接的会议单元数量受主机的供电能力限制。

4.1会议单元的延长电缆

如果会议单元与主机之间、或会议单元与会议单元之间的距离超过标配的线的长度，就需要在单元与主机之间或单元与单元之间增加延长电缆。由于延长电缆会消耗电能，因此增加了延长电缆将会减少主机可以连接的会议单元数量。每路会议单元输出端口可以连接的会议单元数量，与增加延长电缆的长度关系如图所示。

延长电缆加在会议系统主机与第一台会议单元之间，延长电缆上消耗的电流最大，对主机负载能力影响也最大；而加在最后两台会议单元之间，则几乎不影响主机可连接的会议单元数量。例如，可以在第28与第29台会议单元之间增加80米的延长电缆，也不会影响主机可连接的会议单元数量。

主机至第一台会议发言单元间的延长线缆长度	主机每路单元输出端口可连接的发言单元数量	
	8芯线接口-会议发言单元数量	网线接口-会议发言单元数量
20米	30台	20台
40米	28台	15台
60米	25台	10台
80米	20台	5台
100米	15台	/

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4.2接口线序表

接法名称	图示
232	
485	
422	

五、软件设置

会议系统主机可通过USB线与PC相连，通过软件对系统进行设置（系统设置及视像设置）。

5.1软件安装

解压光盘压缩包到本地硬盘，双击 "setup" 进行安装（可安装在任意目录下）。

5.2软件运行

安装完成后，主机和电脑连上USB线，打开主机电源，然后双击运行电脑桌面上的"会议系统" 进入软件登录界面，如图所示：



六、软件操作说明

6.1系统设置

可设置“会议模式”、“发言人”、“优先方式”、“时间同步”等参数。

6.2视像设置

1. 摄像机参数设置

a. 通讯协议

设置主机与摄像机的通讯协议，有VISCA、PELCO-D、PELCO-D 三种协议，在控制摄像机前，首先要选择好与摄像机一样的协议。

b. 摄像机地址

设置当前要控制摄像机云台的地址码，当用多个摄像头时，摄像头自身需设定好不同的地址，编码"1" 表示控制第一个摄像头，如此类推。

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2. 预置点设置

- a. 预置点地址（设置好后自动保存预置点）：“000”表示摄像机全景位地址码“001-999”表示话筒的地址码。
- b. 清除所有预置点：按下清除所有已经设定好的预置点。
- c. 调用预置点：按下后，摄像机会自动转动到该预置点已设定好的预置位进行拍摄。
- d. 设置全景位：调试好全景位预置点后，按下后保存为全景位预置点。
- e. 测试全景位：按下后，摄像机会自动转动到设定好的全景位进行拍摄。

■ 安全警示

为避免电击、高温、着火、辐射、爆炸、机械危险以及使用不当等可能造成的人身伤害或财产损失，使用本产品前，请仔细阅读并遵守以下事项：

- 1. 使用产品时请确认所连设备与本产品是否匹配以及合理调整音量大小，不要在超过产品功率及大音量下长时间使用，以免造成产品异常；
- 2. 使用中若发现有异常（如冒烟、异味等），请立即关闭电源开关并拔掉电源插头，然后将产品送售后服务网点检修；
- 3. 若产品需要使用可拆装电池时，严禁使用外壳绝缘材料破损的电池，请不要为非充电电池充电；
- 4. 废弃电池需放入指定的分类垃圾桶，不可作为儿童玩具或直接丢弃，以免造成安全隐患或影响环境；
- 5. 本产品及配件都应放置在室内干燥通风处，勿长期存放在潮湿、灰尘多的环境，使用中避免靠近裸露火源、碰到液体物质、雨淋、产品进水、过度碰撞、抛掷、振动本机及覆盖通风孔，以免损坏其功能；
- 6. 若产品需要固定于墙壁或天花板上时，请确保固定到位，防止因固定强度不足导致产品发生跌落危险；
- 7. 使用该产品时需遵守相关安全规定，法律法规明确禁止使用场合请勿使用本机，以免导致意外事故；
- 8. 请不要自行拆机改装或维修，以防止出现人身伤害，如有问题或服务需求请联系当地售后服务网点跟进处理。

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关于图标含义解释



此符号表示，根据WEEE指令(2012/19/EU)和国家法律，由于这种类型的废弃物会有潜在的有害物质，可能对环境 and 人类健康产生负面影响，所以本产品不应与您的家庭垃圾一起处置，应将本产品交由授权的电气和电子设备（WEEE）回收站回收。同时，您在正确处理本产品的同时将有助于自然资源的有效利用。如需了解更多有关您可以在何处放置废物回收设备的信息，请联系您当地的城市办事处、废物管理局或家庭废物处理服务部门。

环保说明

产品中有毒有害物质或元素的名称及含量标识表

部件名称	有毒有害物质或元素									
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	邻苯二甲酸 二正丁酯 (DBP)	邻苯二甲酸 二异丁酯 (DIBP)	邻苯二甲酸 丁基苄酯 (BBP)	邻苯二甲酸 二(2-乙基)己酯 (DEHP)
塑料部件	○	○	○	○	○	○	○	○	○	○
金属部件	×	○	○	○	○	○	○	○	○	○
电路板组件	×	○	○	○	○	○	○	○	○	○
线缆	×	○	○	○	○	○	○	○	○	○
本表格依据SJ/T 11364的规定编制。 ○：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572规定的限量要求以下。 ×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572规定的限量要求。										
此标志为产品的环保使用期限标志， 且此环保使用期限只适用于产品正常工作的温度和湿度等条件。										

DG-S60 有线手拉手会议系统

■ 关于本说明书

本说明书中内容符合截止印刷之日的技术规格。由于得胜公司会不断改进产品，本说明书可能不符合您的特定产品的技术规格。要获取最新版说明书，请访问得胜官网，然后下载说明书文件。技术规格、设备或另售的附件在各个地区可能有所不同，如有问题请与当地得胜销售网点确认。如需更多支持和深层产品信息，请浏览得胜官方网站：<https://www.takstar.com>

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DG-S60 Wired Daisy-Chain Conference System

■ Preface

Dear Customer,

Thank you for purchasing Takstar DG-S60 Wired Daisy-Chain Conference System. This series of products is a brand-new intelligent video tracking digital conference system that perfectly integrates full digital technology and comprehensive network technology into the conference system, fully combining advanced digital technology, network technology, and audio technology. It can seamlessly connect with smartphone systems, central control systems, and video conference systems, providing a more complete solution for efficient modern conference system projects.

In the system, the conference units adopt "daisy-chain" connection technology, making installation simple and supporting cascading functions. The system supports a 48kHz audio sampling rate with a frequency response of 20Hz-20kHz. It consists of a conference control unit, conference units, and application software. The conference units include chairman speech unit and delegate speech unit, while the application software is composed of multiple application software modules. In order to better understand and use the product, please read this manual carefully.

If you have any questions or suggestions, please contact our local dealer.

■ Features

Control Unit

- Utilizes digital technology as the core, with a built-in high-performance CPU, supporting discussion and video tracking functions.
- Utilizes digital-analog technology for audio signal transmission, with high fidelity, high SNR and zero latency. Exclusive anti-howling, high-sensitivity and unidirectional capacitive mic capsule for crystal-clear sound.
- 4.3-inch TFT touchscreen with English/Chinese (Simplified/Traditional) display. The Chinese interface is easy to operate, which improves debugging efficiency.
- Equipped with 1 USB interface, supporting the insertion of USB flash drives for recording functionality.
- 4 microphone channels, supporting up to 30 units per channel (total 120 units). The number of chairmen is unlimited and it supports 8-core and RJ45 network cable connections.
- 8 RJ45 ports, supporting up to 20 units per port (total 120 units). The number of chairmen is unlimited.

DG-S60 Wired Daisy-Chain Conference System

- Features a voice-controlled microphone activation function and adjustable threshold levels.
- 7 conference modes: FIFO, LIFO, participant limit, chairman priority, timed speech, free discussion, request-to-speak.
- Adjustable speaker limit (1-12 participants, unlimited number of chairmen). All mics can be fully activated in free discussion mode.
- 32-bit high-speed floating-point DSP for audio processing, 20Hz~20kHz bandwidth for crystal-clear sound.
- Speech timing function with dynamic time display on screen.
- Automatic detection capabilities include detection of the number of chairman units and delegate units, audio check, button test and list display.
- ID addressing with customizable unique unit ID to prevent duplication conflicts.
- Supports live-line hot-swapping capability with auto-repair and quick fault localization, without affecting other devices.
- Built-in camera tracking: Supports PELCO-D, PELCO-P, SONY protocols, features adjustable, savable and recallable preset positions.
- Supports external video switch matrix expansion.
- Equipped with three types of control interfaces and methods: RS-232, RS-422, and RS-485; cameras can be connected in series or in parallel.
- Supports online configuration and modification of unit identities; chairman and delegate unit roles can be reassigned and reconfigured as required.
- Power-off memory retains settings; auto-restore on startup. Factory reset available.
- Simultaneous connection with infrared interpretation systems, telephone couplers, local PA systems, external recorders, and remote multimedia terminals.
- Factory reset function, which supports one-key reset to factory settings to prevent messing up parameters.

Unit Base

- The unit shares 8-core & dual Ethernet ports; 8-core cable or Ethernet cable can be chosen freely.
- Aluminum alloy panel: premium finish, meeting modern aesthetic standards.
- Super-strong directional microphone pickup tech: sensitive pickup, clear voice, with frequency bandwidth up to 20Hz-20kHz.

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- Adopts anti-interference circuit design to prevent interference from mobile phones and other electronic devices.
- The microphone head has a speech indicator ring, which shows the unit's speaking/closed status.
- Equipped with a dark curved mirror surface; it hides the display when powered off for minimalist elegance.
- Features a 2.4-inch TFT color display with clear content; supports English/Traditional Chinese display, enabling easy operation and improved debugging efficiency.
- The unit is a passive device, powered by the system control unit; input voltage is 24V, which is within the safe range.
- Cables adopt full aluminum foil & drain wire shielding, greatly reducing interference from strong electromagnetic waves.
- Supports multiple chairman units: no position restrictions for installation, with a priority function to fully control meeting order and atmosphere.

■ Applications

Conference rooms for enterprises, institutions, government agencies

■ Package Contents

Control Unit

- 1 × Conference Control Unit
- 1 × 10-Meter Main Cable
- 1 × Power Cable
- 1 × 6.35mm Audio Cable
- 1 × Control Cable
- 1 × User Manual

Gooseneck Unit

- 1 × Gooseneck Conference Base
- 1 × Microphone Stem
- 1 × T-Cable/Network Cable
- 1 × Windscreen

Square-stem Unit

- 1 × Square-Stem Conference Unit
- 1 × T-Cable/Network Cable

DG-S60 Wired Daisy-Chain Conference System

■ Specifications

Control Unit

- Power Supply: AC110V-220V/50Hz
- Frequency Response: 20Hz-20kHz
- Signal-to-Noise Ratio: > 96dBA
- Total Harmonic Distortion: < 0.05%
- Recording Interface: USB
- Microphone Unit Interfaces: 4× round DIN-8 sockets
- Microphone Unit Interfaces: 4× RJ45 ports
- Central Control Port: 1× 232 serial port
- Video Switch Communication Port: 1× 232 serial port
- Camera Control Port: 5-pin terminal block (Phoenix connector)
- Computer Interface: 1× USB port
- Audio Input: 1× RCA (jack)
- Audio Output: 2× RCA (jacks), 1× XLR socket, 1× 6.35mm jack
- External Dimensions (L×W×H): 483×323×90mm
- Weight: 4.5kg
- Color: Black/Gray sandblasted finish
- Installation: 19-inch standard rack-mount

Unit Base

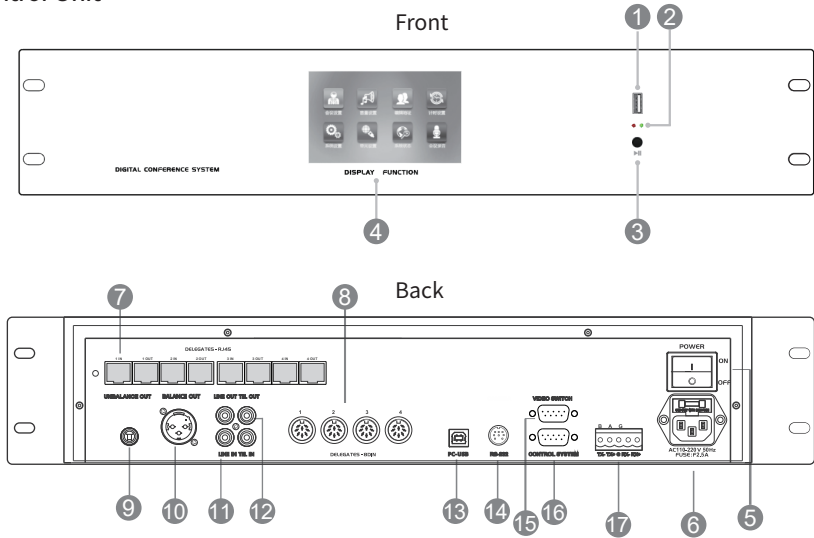
- Input/ Output Interfaces: RJ45/DIN-8P
- Microphone Capsule: Single 14mm Condenser
- Polar Pattern: Cardioid
- Sensitivity: -45dBV/Pa
- Input Impedance: 2K Ω
- Equivalent Noise: 20dBA (SPL)
- Microphone Maximum SPL: 125dB (THD < 3%)
- Frequency Response: 20Hz-20kHz
- Channel Crosstalk: > 80dB
- Total Harmonic Distortion: < 0.05%
- Display: 2.4 IPS TFT
- Unit Base Dimensions: 104×147×44 mm
- Weight: 1.75kg

Note: The above data are measured by Takstar laboratory which has the final interpretation right!

DG-S60 Wired Daisy-Chain Conference System

■ Function Descriptions

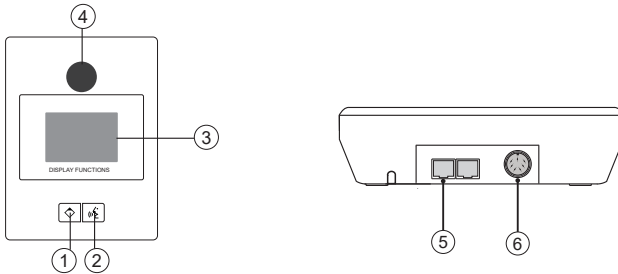
Control Unit



- ① Recording Output Port
- ② Status Indicator
- ③ ENTER Button
- ④ 4.3" HD IPS TFT Display
- ⑤ Power Switch
- ⑥ Power Input (3-pin Grounded Plug)
- ⑦ Conference Unit Ports (RJ45, 4 Channels)
- ⑧ Conference Unit Ports (8-pin, 4 Channels)
- ⑨ Original Sound Channel Line Output (6.3mm Jack, Unbalanced)
- ⑩ Original Sound Channel Line Output (3-pin XLR, Balanced)
- ⑪ BGM Audio Input (RCA × 1)
- ⑫ Audio Outputs (RCA × 3)
- ⑬ USB Local Communication Port
- ⑭ Camera RS-232 Control Port
- ⑮ HD Video Switcher RS-232 Port
- ⑯ Central Control RS-232 Port
- ⑰ Camera Control Ports (RS-232/RS-422/RS-485, Phoenix Connector)

DG-S60 Wired Daisy-Chain Conference System

Unit Base



- ① Priority & Microphone On/Off Button (Chairman Unit): Press to directly turn the microphone on/off. When on, the indicator ring stays red; when off, all active delegate unit microphones are turned off simultaneously.
- ② Microphone On/Off Button (Delegate Unit): Press to turn the microphone on/off. When the microphone is on, the indicator ring stays red.
- ③ High-brightness 320×240 IPS TFT screen: Displays multi-language menus (Simplified Chinese, English) online.
- ④ Fixed square microphone tube interface (non-detachable) for square tube use
- ⑤ RJ45 socket
- ⑥ 8P socket

■ Operating Instructions

I. Function and Feature Descriptions

1. Discussion Function Microphone Settings

Five "speech modes" are available:

- ① "First-In-First-Out (FIFO) Mode": When the maximum number of speakers is reached, the earliest activated speech unit will be automatically turned off by newly activated units.
- ② "Limited Mode": No new speech units can be activated once the maximum number of speakers is reached.
- ③ "Free Mode": Allows up to 20 delegate units to be activated simultaneously, without being restricted by the control unit's speaker limit.
- ④ "Last-In-First-Out (LIFO) Mode": When the maximum number of speakers is reached, the last activated activated speech unit will be turned off by newly activated units.

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⑤ "Chairman Mode": Only the chairman unit can be activated.

Configurable number of speakers: 1–12.

Two "speech time modes" are available:

⑥ "Timed Mode": Adjustable duration (0–999 seconds); the microphone will automatically turn off when the set time is reached.

⑦ "Auto Mode": Adjustable duration (0–999 seconds); the microphone will automatically turn off if no speech is detected within the set time.

2. Supports up to 1200 microphones simultaneously, meeting international conference requirements.

3. Camera Auto-Tracking Function

Compatible with cameras supporting "SONY VISCA, PELCO P, PELCO D" communication protocols, enabling automatic tracking. It can record and video the entire conference venue and speakers.

4. Comprehensive Conference Management

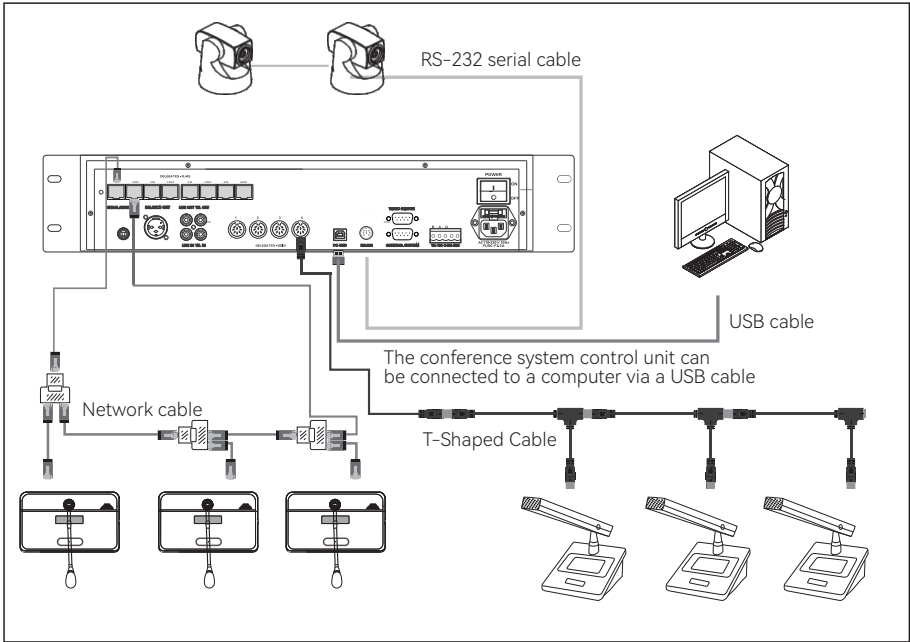
Automates conference operations, organizing routine and tedious tasks efficiently. It enables timely processing and distribution of information, and provides full control over the conference environment, proceedings, and delegate arrangements.

5. Seamless Integration with Sign-In and Central Control Systems

The conference system seamlessly connects with most intelligent central control systems, forming a complete conference solution. It not only provides basic conference functions but also fully manages multimedia peripherals, ambient lighting, projection displays, and audio systems in the conference venue.

DG-S60 Wired Daisy-Chain Conference System

II. System Topology Diagram



III. System Connection

3.1 Connection to the Conference Control Unit

The conference system control unit is equipped with 4 groups of RJ45 microphone unit interfaces (8 ports in total) and 4 channels of 8P-DIN conference unit output interfaces. The system comes with a standard male-ended cable (RJ or 8P-DIN interface) and corresponding connection cables supplied with the base.

To connect the control unit to a conference unit, simply connect the RJ interface network cable or 8P-DIN male connector of the first conference unit to the control unit's output interface.

For long distances between the control unit and the conference unit, it is recommended to use an 8P-DIN extension cable, which has 8P-DIN male and female connectors at both ends. Connect the female end of the extension cable to the 8P-DIN male standard cable or T-connector that comes with the conference unit, then connect the male end of the extension cable to the control unit's output interface.

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3.2 Connection Between Conference Units

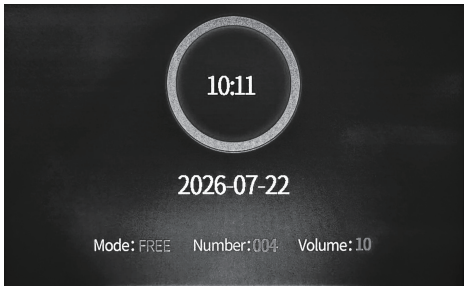
The conference units in this series adopt a daisy-chain connection method, making the installation of the entire system simple and efficient.

When connecting an 8-core interface speech unit to another conference unit, simply connect the horizontal male connector of its equipped 8-core T-cable to the 8-core T-type female connector of the previous unit.

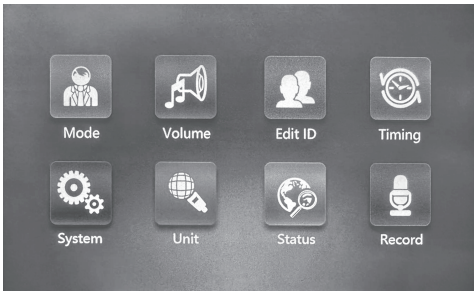
When connecting a network cable interface speech unit to another conference unit, just use two network cables and connect them in a daisy-chain manner.

3.3 System Presets

After connecting the conference units according to the above instructions, when the power switch is pressed for the first time, the system control unit will enter standby mode, as shown in the figure:

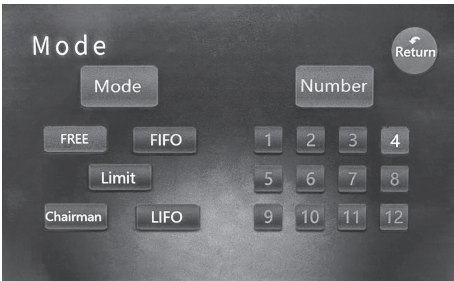


Press any position on the touch screen to enter the main interface, as shown in the figure:



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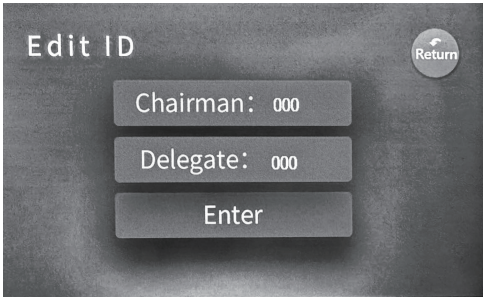
Press the "Conference Settings" icon to enter the Conference Settings menu, where you can set the speech mode and number of speakers, as shown in the figure:



Return to the main interface, select "Edit Address" to enter the Edit Address menu, as shown in the figure:



Press the microphone speech button in sequence to edit the address. The number of chairman and delegate units will appear on the interface below. Then select "Enter" to complete the editing of the microphone address, as shown in the figure:



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3.4 USB Recording Function

3.4.1 Operation Method

1. Insert the USB flash drive into the front panel of the control unit.
2. The control unit automatically recognizes the USB flash drive. Press the "ENTER" key on the front panel, and the status indicator flashes red while recording starts.
3. After the conference ends, press the "ENTER" key to stop recording; the system will automatically save the recording file to the USB flash drive.

IV. The conference units are powered by the conference system control unit, therefore the number of connectable conference units is limited by the control unit's power supply capacity.

4.1 Extension Cables for Conference Units

If the distance between a conference unit and the control unit, or between two conference units, exceeds the length of the standard-provided cables, extension cables need to be added between the unit and the control unit or between units. Since extension cables consume electrical energy, adding them will reduce the number of conference units that the control unit can connect to. The relationship between the number of conference units connectable to each conference unit output port and the length of the added extension cables is shown in the diagram.

When an extension cable is added between the conference system control unit and the first conference unit, the current consumed by the extension cable is the largest, thus having the most significant impact on the control unit's load capacity. In contrast, adding an extension cable between the last two conference units will barely affect the number of conference units that the

DG-S60 Wired Daisy-Chain Conference System

control unit can connect to. For example, an 80-meter extension cable can be added between the 28th and 29th conference units without affecting the number of conference units connectable to the control unit.

Length of Extension Cable between Control Unit and the First Conference Speech Unit	Number of Speech Units Connectable to Each Output Port of the Control Unit	
	8P-DIN Interface - Number of Conference Speech Units	Network Interface - Number of Conference Speech Units
20 meters	30 units	20 units
40 meters	28 units	15 units
60 meters	25 units	10 units
80 meters	20 units	5 units
100 meters	15 units	/

4.2 Interface Pinout Table

Connection Name	Illustration
232	
485	
422	

DG-S60 Wired Daisy-Chain Conference System

V. Software Settings

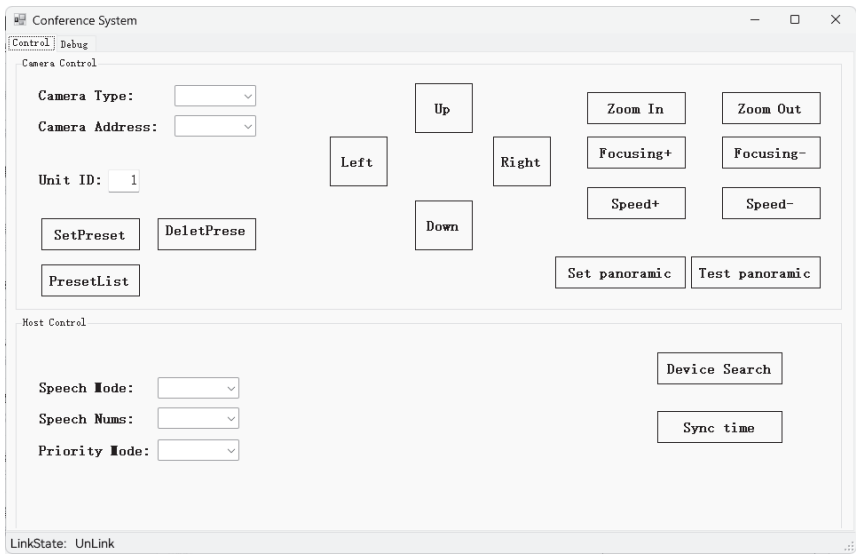
The conference system control unit can be connected to a PC via a USB cable, and the system can be configured through software (including system settings and video settings).

5.1 Software Installation

Unzip the compressed package on the CD-ROM to the local hard disk. Double-click "setup" to start the installation (it can be installed in any directory).

5.2 Software Operation

After the installation is complete, connect the control unit and the computer with a USB cable. Turn on the power of the control unit, then double-click "Conference System" on the computer desktop to enter the software login interface, as shown in the figure:



VI. Software Operation Instructions

6.1 System Settings

Parameters such as "Conference Mode", "Number of Speakers", "Priority Mode", and "Time Synchronization" can be set.

DG-S60 Wired Daisy-Chain Conference System

6.2 Video Settings

1. Camera Parameter Settings

a. Communication Protocol

Set the communication protocol between the control unit and the camera. There are three protocols: VISCA, PELCO-D, PELCO-D. Before controlling the camera, first select the same protocol as that of the camera.

b. Camera Address

Set the address code of the camera pan-tilt that is to be controlled currently. When using multiple cameras, each camera needs to be set with a different address. The code "1" indicates controlling the first camera, and so on.

2. Preset Point Settings

a. Preset Point Address (Automatically saves the preset point after setting): "000" represents the address code of the camera panoramic position, and "001-999" represent the address codes of the microphones.

b. Clear All Preset Points: Press to clear all the preset points that have been set.

c. Call Preset Point: When pressed, the camera will automatically rotate to the preset position of the preset point that has been set for shooting.

d. Set Panoramic Position: After adjusting the panoramic preset point, press to save it as the panoramic preset point.

e. Test Panoramic Position: When pressed, the camera will automatically rotate to the set panoramic position for shooting.

DG-S60 Wired Daisy-Chain Conference System

■ Safety Instructions

To avoid electric shock, overheat, fire, radiation, explosion, mechanical risk and injury or property loss due to improper use, please read and observe the following items before use:

1. Please check if the power of the connected equipment matches with that of this product before operation. Adjust the volume to proper level during operation. Do not operate at over-power or high-volume level for extended time to avoid product malfunction.
2. If there is any abnormality during use (e.g., smoke, strange odor), please kill the power switch and unplug from power source, then send the product to the local after-sales service for repair.
3. When using replaceable batteries, do not use batteries with damaged insulation on the casing. Do not attempt to charge non-rechargeable batteries.
4. Dispose of used batteries in designated recycling bins. Do not use them as toys or dispose of them directly, as it may pose safety hazards or harm the environment.
5. Keep this product and its accessories in a dry and ventilated area. Do not store in a humid or dusty area for extended time. Keep away from fire, rain, liquid intrusion, bumping, throwing, vibrating, or from blocking any ventilation openings, to prevent malfunction.
6. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.
7. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.
8. Do not disassemble or repair the product by yourself to avoid injury. If you have any questions or require any services, please contact our local after-sales service.

DG-S60 Wired Daisy-Chain Conference System

■ Label Meanings



This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (WEEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with WEEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

■ About This Manual

This manual contains up-to-date technical specifications as of printing. However, specifications contained herein may not conform to your particular product since Takstar is constantly improving its products. Also, specifications, devices or accessories available may vary from region to region. If you have any questions, please contact our local sales outlet. For the latest version/more information, please visit our website: <https://www.takstar.com>

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商品：_____ 型号：_____ 购买日期：_____ 年 _____ 月 _____ 日

维修记录栏 (由维修员填写)	维修员签名	日期

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- 1. 本单为保修凭证，请用户妥善保管，如有遗失，恕不保修或退换。
- 2. 保修期限制：购买之日起十二个月内。
- 3. 除了不可抗力事件损坏外，由本公司负责，免费维修。
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