

Wired Digital Conference System Controller

Central Control Unit

Model: CLA-CON20CU-M8



SUMMARY

This intelligent wired digital camera tracking and discussion conference system is engineered to deliver a comprehensive, future-ready solution for modern conferencing environments. Built on DSP/DDOV digital processing technology compliant with IEC60065 standards, it combines advanced audio, video, and network capabilities with robust reliability and intuitive operation.

The system features a durable aluminium alloy panel with Mohs hardness touch glass and a 4.5-inch TFT full-fit touchscreen, offering a clear, user-friendly interface. Powered by a high-performance industrial-grade embedded processor (1.4GHz, 1G memory), it ensures fast, stable performance across functions including discussion, video tracking, sign-in, voting, and multilingual interpretation.

With a capacity of up to 76,800 units and versatile connection methods (ring, one-line, junction box, T-type), the system supports eight conference modes and flexible speaker management, including unlimited chairman and VIP units. Audio quality is guaranteed through lossless 48KHz transmission, adaptive DSP modules, and advanced feedback suppression.

FEATURES

❖ Advanced Digital Processing

Utilizes DSP/DDOV digital processing and transmission technology, fully compliant with IEC60065 international standards.

❖ Premium Touch Interface

Aluminium alloy panel with Mohs hardness touch glass and a 4.5" TFT full-fit touchscreen, offering a clear, intuitive graphical interface for efficient operation and debugging.

❖ High-Performance Processor

Powered by an industrial-grade embedded processor (1.4GHz, 1G memory), ensuring fast and stable performance.

❖ Flexible Connectivity

Eight output interfaces, including 6× 8-Pin and 2× RJ45 (expandable to 8× RJ45), supporting up to 240 units.

❖ Large System Capacity

Supports up to 76,800 units with versatile connection methods such as ring hand-in-hand, one-line, junction box, and T-type.

❖ Multiple Conference Modes

Offers eight modes including FIFO, LIFO, quantity limit, chairman permission, voice-activated start, time-limited speech, queuing, and free discussion.

❖ **Customizable Speaker Settings**

Configurable for 1–20 speakers, with unlimited chairman and VIP units, and unrestricted free discussion mode.

❖ **High-Fidelity Audio**

Lossless audio transmission with 48KHz sampling and 20Hz–20KHz frequency response for crystal-clear sound.

❖ **Integrated Signal Processor Audio Module**

Features adaptive feedback suppression, digital equalizer, and automatic gain control to minimize interference, distortion, and crosstalk.

❖ **Internal Communication & Services**

Multi-channel communication allows the host to receive service requests directly from conference units.

❖ **Smart Display Functions**

Built-in perpetual calendar with speech timing; dynamically displays date, week, and time with automatic synchronization to computer systems.

❖ **Automatic Detection**

Identifies chairman, VIP, and representative units, with audio, button, and list display detection functions.

❖ **Unique ID Addressing**

Customizable unit numbers ensure unique identification and prevent duplication conflicts.

❖ **Dual-Host Hot Backup**

Backup host automatically takes over in case of primary host failure, ensuring uninterrupted operation.

❖ **Hot-Plugging & Fault Recovery**

Supports live hot-plugging, automatic repair, and rapid fault positioning without affecting other equipment.

❖ **Camera Tracking Integration**

Compatible with PELCO-D, PELCO-P, SONY, SAMSUNG, and other protocols, with preset adjustment, saving, and recall functions.

❖ **Versatile Camera Control**

RS-232 and RS-485 interfaces support series or parallel camera

connections, with up to 4 HD cameras and HDMI/SDI matrix options.

❖ **Electronic Voting & Sign-In**

Built-in functions for sign-in, voting, elections, and scoring, with real-time data display, archiving, and graphical reporting.

❖ **Multilingual Interpretation**

Supports simultaneous interpretation in up to 64 languages,

❖ **Extended Recording Capability**

USB/SD recording module supports up to 2000 hours of continuous audio recording.

❖ **Long-Distance Integration**

Optical fiber extension ensures uncompromised sound quality and allows merging of remote conference rooms.

❖ **Comprehensive Audio I/O**

Includes XLR, TRS, and Lotus interfaces with independent volume control, plus auxiliary inputs for fire alarms, remote conferencing, and background music.

❖ **Chairman & VIP Management**

Supports up to 150 chairman units with priority control, shutdown authority, and dynamic identity reassignment. Up to 150 VIP units can be configured with unrestricted speaking rights.

❖ **Identity Recognition & Control**

Intelligent identity management allows approval, rejection, and modification of unit roles (chairman, VIP, representative) online.

❖ **Factory Reset Function**

One-key reset restores factory settings, preventing unauthorized parameter changes.

❖ **Flexible Room Configuration**

Conference room merging and splitting functions adapt to diverse venue requirements.

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SPECIFICATIONS

Model No.	CLA-CON20CU-M8
Processing Technology	DSP / DDOV Digital Processing
Panel & Display	Mohs hardness, 4.5" TFT full-fit touchscreen, intuitive GU
Processor	1.4GHz main frequency, 1G memory, fast operation speed
Connectivity	8-way output: 6× 8-Pin + 2 × RJ45 (expandable to 8× RJ45), supports 240 units
System Capacity	Supports up to 76,800 units with ring, one-line, junction box, T-type connections
Conference Modes	FIFO, LIFO, quantity limit, chairman permission, voice control, time-limited, queuing, free discussion
Speaker Settings	1–20 speakers, unlimited chairman & VIP units, unrestricted free discussion
Audio Quality	Lossless 48KHz sampling, 20Hz–20KHz frequency response
Audio Processing	Adaptive feedback suppression, digital EQ, automatic gain control
Dual-Machine Hot Backup	Backup host auto-takes over if primary fails
Maintenance	Supports live hot-plugging, auto repair, rapid fault positioning
Camera Integration	Supports PELCO-D, PELCO-P, SONY, SAMSUNG protocols, preset adjustment
Camera Control	RS-232 & RS-485, series/parallel connections
Video Support	Connects 4no. HD cameras, 4×1 HDMI matrix
Voting & Sign-In	Sign-in, voting, election, scoring, real-time data display
Voting Methods	Votes exportable, archivable, printable in graphical form
Interpretation	Supports 4–64 languages
Control	Browser access without software installation
Audio Expansion	8–64 channels analog output for interpretation or recording equipment
Recording	USB/SD module, up to 2000 hours continuous audio recording
Auxiliary Inputs	Fire alarm, remote video conferencing, background music, auxiliary audio
Chairman Units	Supports up to 150 chairman units with priority & shutdown authority
Reset Function	One-key reset to factory settings, prevents parameter tampering
Power Supply	AC100V–240V with voltage stabilization for safe, stable operation