

# CS-200L

## Wired Conference System



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## 1 - COPYRIGHT NOTICE

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## 2 - ABOUT TRADEMARKS

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## 3 - INTENDED USE

The CS-200L conference system is designed for spoken communication in meetings, presentations and formal discussion settings. It provides wired microphone connections, clear speech reproduction and orderly turn-taking. The system is intended for indoor use by trained operators and should be installed following the guidance in this manual for reliable performance.

# 4 - SAFETY INSTRUCTIONS

Our CS series conference systems are designed with a focus on aesthetics and product quality. However, the system could pose a risk to personal or company property if:

- It is not used in accordance with the instructions
- It has been installed or operated by individuals unfamiliar with standard safety practices
- It has been improperly modified
- The following safety instructions have not been read carefully

## 4.1 Read Instructions

Read all safety and operating instructions before using the product, device, or system.

### 1. Retain Instructions

Keep the safety and operating instructions for future reference, ideally near the product or system.

### 2. Heed Warnings

Follow all warnings provided on the product and in the operating instructions.

### 3. Follow Instructions

Adhere strictly to all installation and operating instructions.

### 4. Cleaning

Unplug the product from the mains before cleaning. Do not use liquid or aerosol cleaners—use only a damp cloth.

### 5. Ventilation

Ensure that ventilation slots and openings are not blocked. Do not place the product on beds, sofas, rugs or similar surfaces, or in enclosed spaces like bookcases or racks unless proper ventilation is provided in line with the manufacturer's guidance.

### 6. Heat

Keep the product away from heat sources such as radiators, heaters, stoves, or other devices that produce heat, including amplifiers. Avoid using the product in environments that exceed standard operating temperatures.

### 7. Modifications

Do not use modifications, extensions, or attachments that are not approved by the manufacturer, as they may be hazardous.

### 8. Accessories

Only use accessories specified by the manufacturer. Do not place the product on unstable surfaces such as carts, stands, or tables not recommended by the manufacturer, as this may result in injury or damage.

### 9. Water and Moisture

Do not use the product near water or in damp environments—e.g., near bathtubs, sinks, or swimming pools, or in wet basements or unprotected outdoor areas.

### 10. Moving

If using a product and cart combination, move it with care. Sudden stops, excessive force, or uneven surfaces may cause the unit to tip over.

### 11. Power Sources

Use only the power source indicated on the product label. If unsure, consult your dealer or local electricity provider. For battery-powered models, follow the product instructions.

### 12. Power Lines

Do not install the system near overhead power lines or other electric circuits where it could fall or make contact. Take extreme care during outdoor installation.

### 13. Grounding or Polarisation

Do not defeat the safety purpose of a polarised or earthed plug. If the provided plug does not fit your socket, consult an electrician to replace the outlet.

### 14. Power Cord Protection

Route power cords so they are not likely to be walked on or pinched, particularly at plugs, sockets, and the point where they exit the product.

### 15. Lightning

Unplug the product during lightning storms or when unused for long periods. This helps protect against damage from lightning or power surges (unless the system needs to remain on for critical functions like evacuation alerts).

### 16. Overloading

Avoid overloading sockets, extension leads or built-in convenience outlets to reduce the risk of fire or electric shock.

### 17. Object and Liquid Entry

Never insert objects into the product through openings. Doing so may contact hazardous voltage or short-circuit parts. Never spill any liquid on the product.

### 18. Flammable or Explosive Substances

Do not use the product in areas where there are flammable gases or explosive substances.

### 19. Shock or Vibration

Avoid subjecting the product to heavy shock or vibration when transporting it.

### 20. Servicing

Do not attempt to service the product yourself. Opening covers may expose you to hazardous voltage. Refer servicing to qualified personnel.

### 21. Damage Requiring Service

Unplug the product and seek professional service if:

- The power cord or plug is damaged
- Liquid has been spilled or objects have entered the product
- The product has been exposed to water
- The product does not operate normally despite following instructions
- The product has been dropped or damaged
- There is a noticeable change in performance

### 22. Replacement Parts

Use only replacement parts recommended by the manufacturer. Substitutions may pose fire or shock risks.

### 23. Safety Check

After servicing, ask the technician to perform safety checks to confirm the product is in proper working condition.

### 24. Coaxial Grounding

If connecting an external cable system, ensure it is properly earthed. *U.S. models only:* Refer to NEC Article 810 for guidelines on grounding mounts, structures, and coaxial lines.

## 4 - SAFETY INSTRUCTIONS

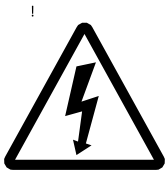
### Power Connections

For permanently connected equipment, a readily accessible disconnect device must be included in the fixed wiring. For equipment with a plug, the socket must be installed close to the equipment and be easy to access.

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do not open the cabinet—refer servicing to qualified personnel only.

To prevent electric shock, do not use this (polarised) plug with an extension lead or other outlet unless the blades can be fully inserted, ensuring no part of the blades is exposed.

Installation should be carried out by qualified service personnel only, in accordance with the National Electrical Code or relevant local regulations.



The lightning flash with an arrowhead symbol inside an equilateral triangle is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure, which may be strong enough to pose a risk of electric shock.



The exclamation mark inside an equilateral triangle is intended to alert the user to important operating and maintenance (servicing) instructions in the documentation provided with the appliance.

## 5 - CS-200L SYSTEM ARCHITECTURE

The CS-200L is a wired digital conference system offering reliable performance, easy setup, and intuitive operation for professional meeting environments. With integrated web control, camera tracking, and flexible audio management, it's built for streamlined, high-quality discussions.

Key features include:

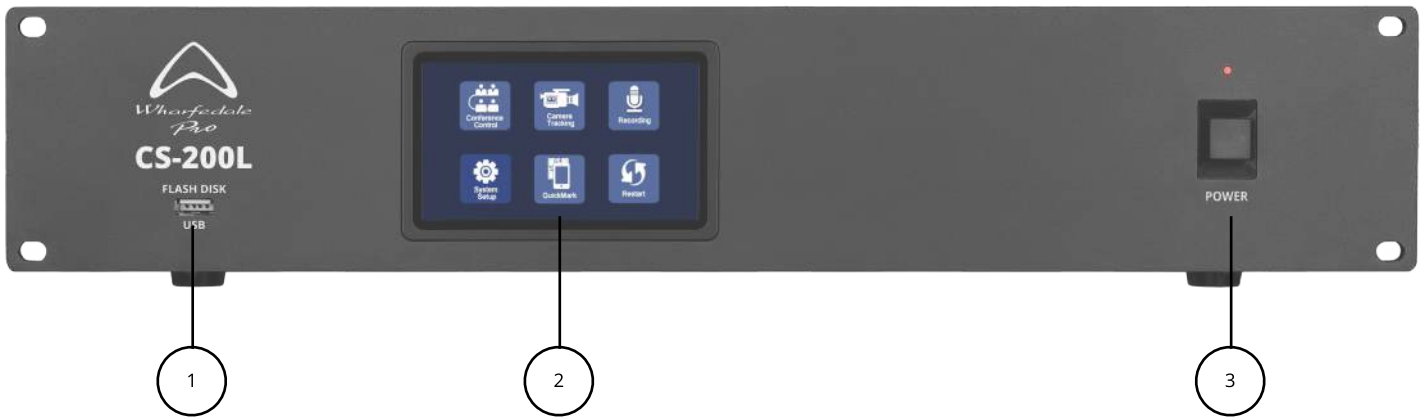
- **Wired reliability:** Stable performance using RJ45 connections for secure audio and control signal transmission.
- **Touch screen control:** Intuitive TFT display on the central controller allows easy access to system settings and live monitoring.
- **Clear speech reproduction:** Digital signal processing and cardioid condenser microphones ensure high intelligibility and reduced feedback.
- **Flexible meeting modes:** Supports discussion, auto, chair-only, and open modes, plus FIFO/LIFO queuing logic.
- **Camera tracking support:** Compatible with VISCA, Pelco-D/P, and RS-485 cameras for automatic speaker tracking.
- **Built-in recording:** Onboard USB recording with MP2 format for convenient meeting archiving.
- **Scalable architecture:** Supports up to 100 discussion units natively, expandable to 1000 units via extension.
- **Integrated web control:** No software installation required—access system settings through a standard browser interface.

### 5.1. CS-200L System Components:

- CS-200L Central Unit
- AC Power Cable
- User Manual
- CS-200CL Chair Unit × 1 × [varies per setup]
- CS-200DL Delegate Unit × [varies per setup]
- Each microphone unit (CS-200CL / CS-200DL) is supplied with a 3-way RJ45 adaptor box and 2 x RJ45 cables.
- System connection cables (RJ45, supplied or specified by manufacturer)
- Optional: RS-232 / RS-485 camera control cables (for camera tracking setup)
- Optional: USB flash drive (for onboard recording)

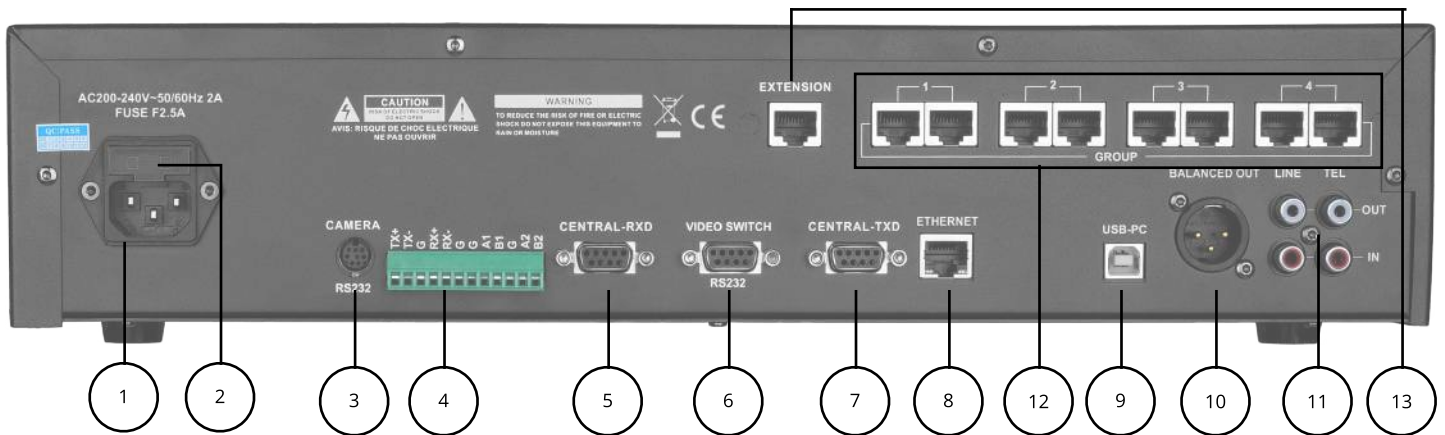
## 5.2 - SYSTEM OVERVIEW

### 5.2.1 CS-200L CENTRAL UNIT FRONT PANEL



1. USB Recording port
2. 4.3" touch-screen display with full parameter access
3. Power switch & Red LED power on indicator

### 5.2.2 CS-200L CENTRAL UNIT REAR PANEL



- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. AC Power socket</li> <li>2. Fuse</li> <li>3. Camera RS-232</li> <li>4. Camera RS-485/RS-422</li> <li>5. Controller RS-232 RXD</li> <li>6. Video switch RS-232</li> <li>7. Controller RS-232 TXD</li> </ol> | <ol style="list-style-type: none"> <li>8. Ethernet interface</li> <li>9. USB (Factory Service Only, No PC Connection)</li> <li>10. Mono Balanced audio output</li> <li>11. Line in/out, Tel in/out. Note - Mono connections</li> <li>12. Microphone interface</li> <li>13. Extension interface</li> </ol> |
|--|---|

### 5.2.3 CS-200CL CHAIR MICROPHONE

A wired microphone unit with priority control, built-in speaker, and LCD display for managing discussions.

#### 1. Condenser Microphone Capsule

#### 2. Mic Indicator

Indicates the working status of microphone. Red = Mic on.

#### 3. LCD Display

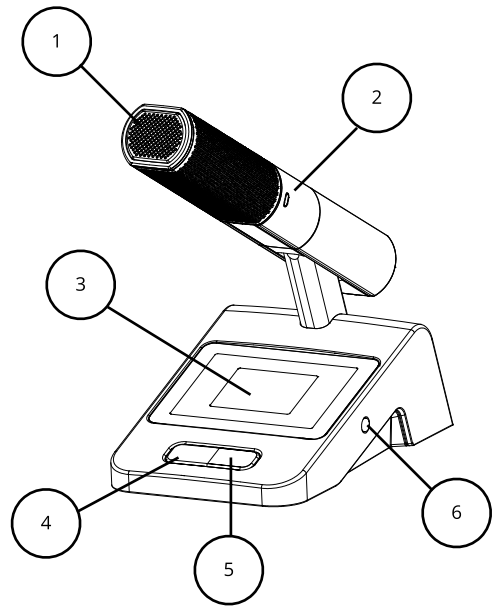
Displays the working state.

#### 4. Chair Priority Key

When this key is pressed, all delegate units in use will be switched off.

#### 5. Mic On/Off Key

#### 6. Earphone Jack output



### 5.2.4 CS-200DL DELEGATE MICROPHONE

A compact wired microphone unit with clear audio pickup, LCD display, and user-controlled mic activation.

#### 1. Condenser Microphone Capsule

#### 2. Mic Indicator

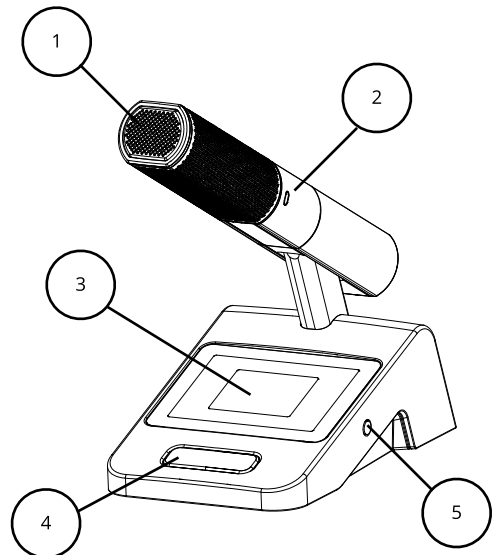
Indicates the working status of microphone. Red = On

#### 3. LCD Display

Displays the working state.

#### 4. Mic On/Off Key

#### 5. Earphone Jack output

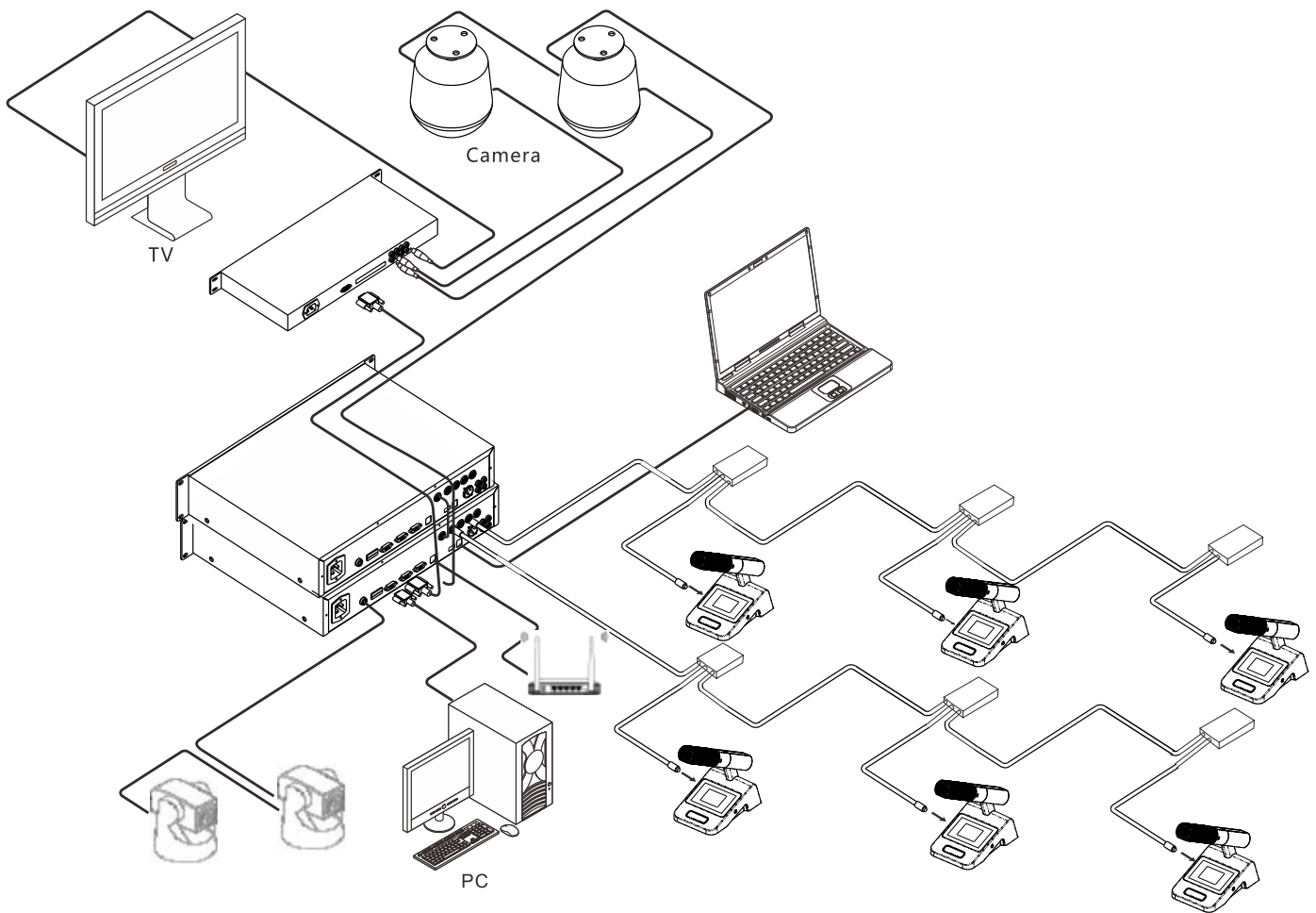


### 5.3 - EXAMPLE SYSTEM

The CS-200L operates as a fully wired conference system using standard RJ45 cabling to connect all microphone units to the central controller.

Each unit is assigned a unique ID, which can be configured via the web interface or directly through the system setup.

The system supports up to 100 microphone units directly, with the option to expand to 1000 units using extension interfaces. Reliable communication and power delivery are ensured through dedicated Ethernet-style cables. Camera tracking, audio recording, and system settings are all managed through the central controller's touch screen or web interface, giving full control and real-time monitoring of each connected unit.

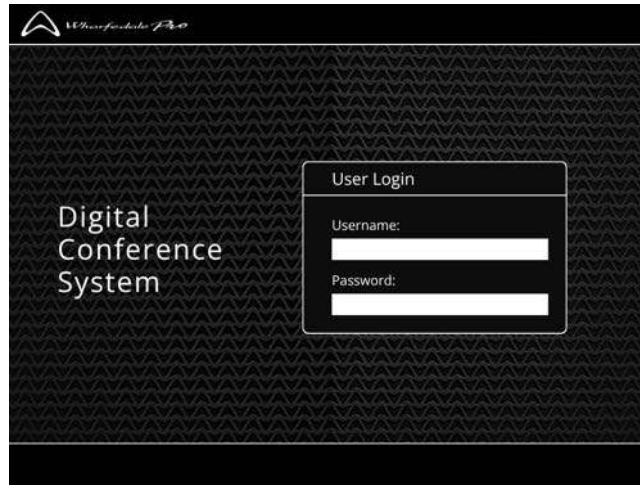


Note:

- Microphone unit ID's are set in the factory, but users can reset the ID for each microphone after installation.
- Ensure the system is powered using the specified power supply.
- Avoid operating the system in high-humidity environments.
- It is recommended to use all the supplied system cables for optimal performance.

# 6 - WEB MANAGEMENT SYSTEM

## 6.1 Login Page & Setup Address



### WEB MANAGEMENT SYSTEM

The web management system is a built-in portal that allows deeper configuration of the CS-200L from a computer. No additional software installation is required.

The CS-200L controller's IP address must be within the same network range as the computer. You can view and change the IP address via the SYSTEM SETUP menu on the CS-200L's LCD. Ensure both devices are on the same subnet (in most cases this will be 255.255.255.0).

Connect the computer to the 10BASE connector on the rear of the CS-200L.

For example, if the CS-200L IP address is 192.168.1.236, enter 192.168.1.236 in a web browser to access the web interface.

**Note** - The computer must be in the same IP range as the CS-200L (such as 192.168.1.\*\*\*). Also beware of any Firewall which may block access.

To log into the system, please use the following credentials:

**User: admin**  
**Password: 123456**

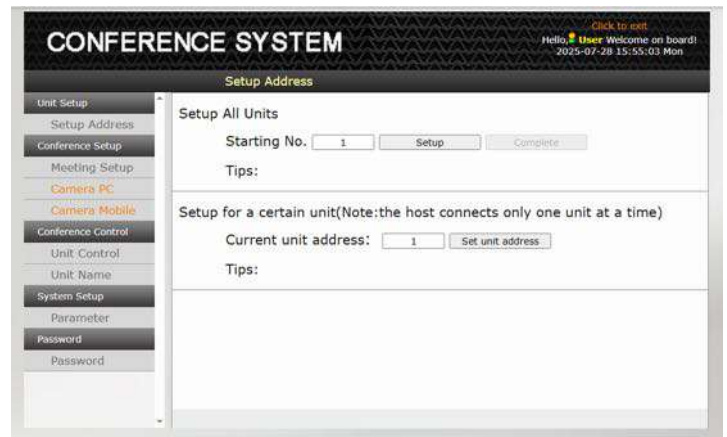
### SETUP ALL UNIT

Use this function to assign IDs to all connected microphone units. Enter a starting ID, and the system will automatically assign ascending IDs to each unit. Once completed, reboot the controller to apply changes. Click 'SETUP' to begin and 'COMPLETE' to finish the process.

### CERTAIN UNIT ADDRESS

This function allows the user to assign a specific ID to an individual microphone unit. For example, in a system with 30 microphones, an additional unit can be added and manually assigned ID 31.

**Note:** Only one microphone unit should be connected to the controller during this operation. All other units must be disconnected.



## 6.2 MEETING SETUP

### QUEUE MODE

Provides FIFO (first in first out) & FILO (first in last out) options.

### SOUND CONTROL ON/OFF

Allows delegates to activate their microphone using voice detection.

### MEETING MODE

**a) Discussion:** The camera tracks the last microphone unit that was manually activated.

**b) Auto:** The camera tracks the microphone unit that detects voice input.

**c) Chair:** Only the Chair unit can be activated.

**d) All On:** All microphone units can be switched on simultaneously. There is no limit to the number of active microphones.

### SPEAKING QTY

Applies to delegate units only. Defines the number of microphones that can be active at the same time.

### PRIORITY SETUP

**a) Auto Recover:** Delegate units will be muted while the Chair's priority key is held. They will automatically unmute once the key is released.

**b) Manual Recover:** Delegate units will be switched off when the priority key is pressed. They must be manually reactivated by pressing the ON key again.

### MUTE AUTO OFF

Automatically switches off the microphone if no voice is detected within the set time frame. A value of 0 seconds disables this function.

### UNIT TIMING OFF

Sets the time frame for how long a microphone unit remains active. The unit will automatically switch off once the set time expires.

### SIGN-IN SELECT (optional)

This option is available on systems with the voting function. Users can select either cardless or card-based sign-in to allow the system to calculate the number of attendees before voting begins.

### BUZZER MUTE

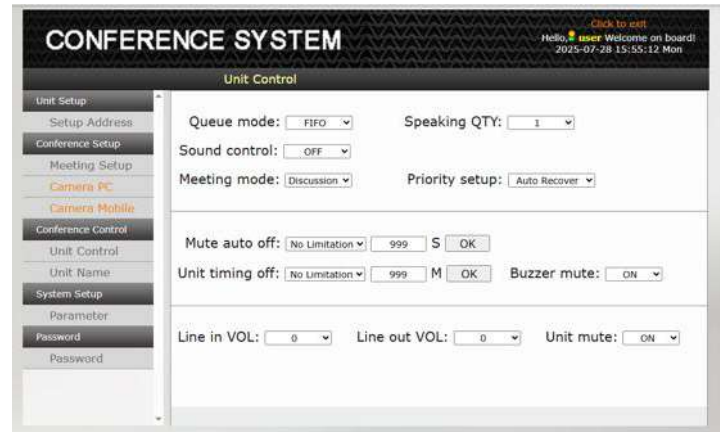
Enables or disables the controller's buzzer.

### LINE IN/OUT VOL

Controls the main system volume.

### UNIT MUTE

Mutes the built-in speakers on all microphone units when enabled.



### 6.3 CAMERA TRACKING SETUP

**CAMERA\_PC** and **CAMERA\_TOUCH** offer the same camera setting functions. However, **CAMERA\_TOUCH** is optimised for mobile devices and includes a **'Button Time'** adjustment option for touch release timing. Users can choose either version based on their preferred device.

#### CAMERA TYPE

Supports multiple camera protocols including VISCA (SONY-D70), Pelco-D, Pelco-P (baud rate: 9600), and Yaan (baud rate: 4800).

#### HOST ID

Specifies the controller's ID used in the camera tracking setup.

#### CAMERA ID

Selects the camera to be used for configuring the tracking position.

#### UNIT ID

Specifies the microphone unit to be configured for camera tracking.

#### TEST PRESET

Allows the user to verify that the tracking preset has been configured correctly.

#### DELETE PRESET

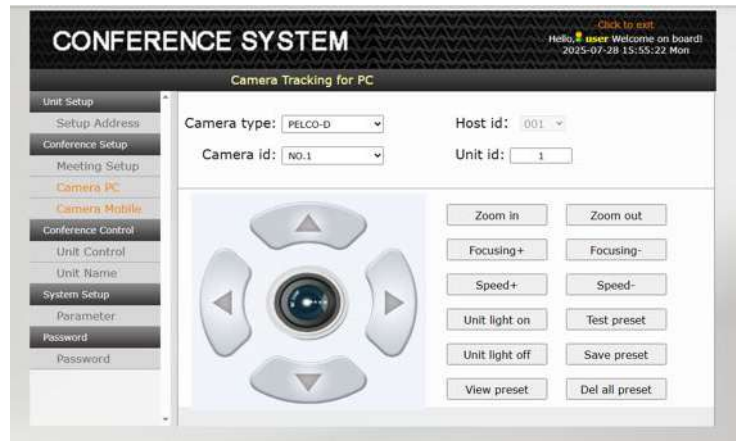
Deletes all saved camera tracking presets.

#### VIEW PRESET

Displays a list of all saved camera tracking presets for review.

#### UNIT LIGHT ON/OFF

Turns the microphone's indicator light on or off to help the operator identify the active unit.



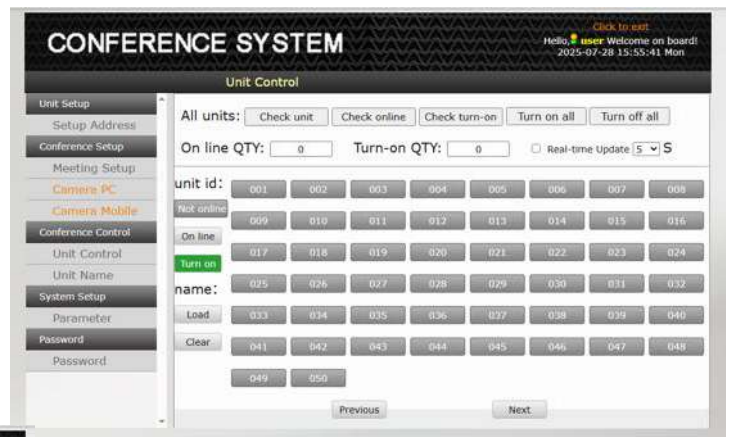
### 6.4 UNIT CONTROL AND NAMING

#### UNIT CONTROL

The Unit Control interface allows the operator to monitor the real-time status of each connected microphone unit. Active units are highlighted in green, and clicking a Unit ID toggles its ON/OFF status.

#### UNIT NAME

This interface allows the operator to assign attendee names by clicking a Unit ID and selecting "Save to device" to store the name list. When returning to this page, the names will not be displayed until "Load name" is clicked to retrieve the saved list.



## 6.5 SYSTEM SETTINGS

### SETUP SYSTEM

The Setup System interface allows the operator to configure the system time (clock) and the local IP address. The system must be rebooted after applying a new IP address.

The screenshot shows the 'CONFERENCE SYSTEM' web interface. The top navigation bar includes 'Click to exit', 'Hello, user Welcome on board!', and the date '2025-07-28 15:56:00 Mon'. The main title is 'CONFERENCE SYSTEM' and the sub-header is 'Setup System'. A left sidebar menu lists: Unit Setup, Setup Address, Conference Setup, Meeting Setup, Camera PC, Camera Mobile, Conference Control, Unit Control, Unit Name, System Setup, Parameter, Password, and Password. The main content area is titled 'Setup System' and contains: 'Time: H 0 M 0 S 0' and 'D 0 M 0 Y 0' with a 'Sync time' button; and 'IP\_addr set: 192 - 168 - 1 - 236' with a 'Set local IP' button.

### SYSTEM PASSWORD

The administrator username is fixed as **admin**, with a default password of **123456**.

The administrator can change the password and add new users. Only the administrator is authorised to make changes in this section.

The screenshot shows the 'CONFERENCE SYSTEM' web interface. The top navigation bar includes 'Click to exit', 'Hello, user Welcome on board!', and the date '2025-07-28 15:56:08 Mon'. The main title is 'CONFERENCE SYSTEM' and the sub-header is 'System Password'. A left sidebar menu lists: Unit Setup, Setup Address, Conference Setup, Meeting Setup, Camera PC, Camera Mobile, Conference Control, Unit Control, Unit Name, System Setup, Parameter, Password, and Password. The main content area is titled 'System Password' and contains two columns: 'Change User Password' and 'Change Admin Password'. The 'Change User Password' column has fields for 'Admin password', 'New User Name', 'New User Password', and a 'Must start with letter' note. The 'Change Admin Password' column has fields for 'Old Password', 'New Password', and 'New Password Again'. Both columns have 'Submit' and 'Reset' buttons.

# 7 - OPERATION

## 7.1 CENTRAL UNIT SYSTEM INTERFACE

### CONFERENCE CONTROL

Contains settings and parameters related to pre-meeting configurations.

### CAMERA TRACKING

Allows the operator to assign camera positions to individual microphone units.

### RECORDING

Provides access to the system's audio recording functions.

### SYSTEM SETUP

Used to configure basic system information such as IP address, time, and host ID.

### QUICKMARK

Displays a QR code for quick access to the web management system.

### RESTART

Reboots the system.



## 7.2 CONFERENCE CONTROL - QUEUE MODE

### FIFO (First In, First Out)

When a microphone limit is set (e.g., OPEN MIC = 2), the earliest active delegate unit will switch off when a new unit is activated beyond the limit.

### LIFO (Last In, First Out)

With a set microphone limit, the most recently activated unit will be switched off first if a new unit exceeds the limit.

### SOUND CONTROL ON/OFF

Enables voice-activated microphone activation for delegate units.

**Note:** Before enabling Sound Control, set the sensitivity to a lower level via the volume settings menu. High sensitivity may cause system overload. If a failure occurs, reboot the controller.



## 7.3 CONFERENCE CONTROL - MEET MODE

### DISCUSSION MODE

The camera tracks the last microphone unit that was manually switched on.

### CHAIR MODE

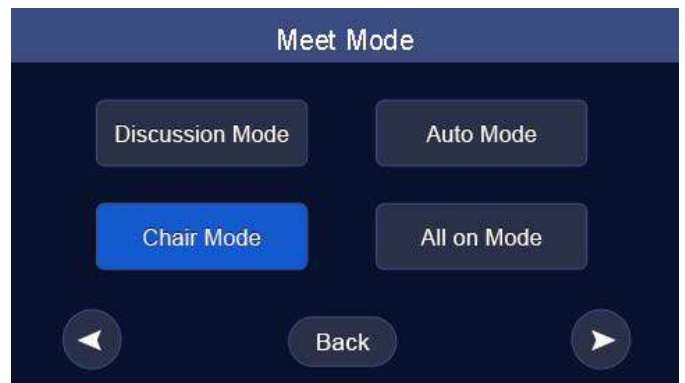
Only the Chair unit can be activated; delegate units remain off.

### AUTO MODE

The camera tracks the microphone unit that detects voice input.

### ALL ON MODE

All microphone units can be activated simultaneously, with no limit on the number of open microphones.



#### 7.4 CONFERENCE CONTROL - MEET SETUP

##### CHAIR QTY

Defines the number of chair units in the system.

##### SPEAKING QTY

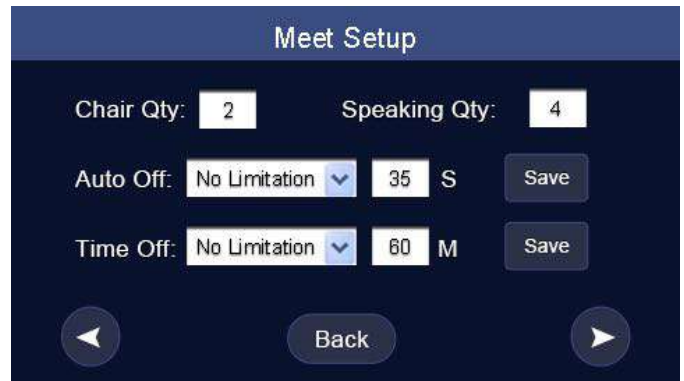
Applies to delegate units only; sets the maximum number of microphones that can be active at the same time.

##### AUTO OFF

Automatically switches off a microphone if no voice is detected within the set time frame. A value of 0 seconds disables this function.

##### TIME OFF

Sets a time limit for how long a microphone remains active. The unit will automatically switch off once the time expires.



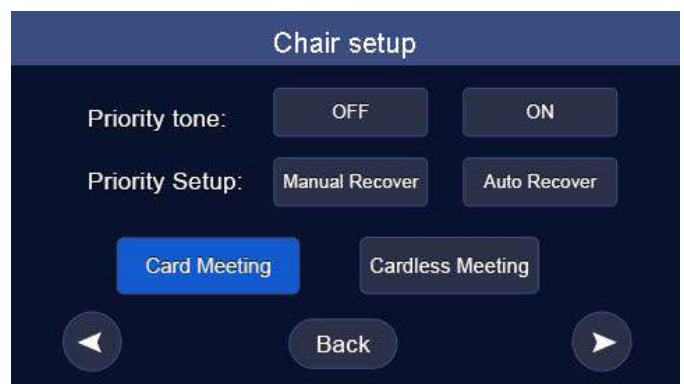
#### 7.5 CONFERENCE CONTROL - CHAIR SETUP

##### MANUAL RECOVER

Delegate units are switched off when the priority key is pressed. They can be reactivated by pressing the ON key again.

##### AUTO RECOVER

Delegate units are muted while the priority key is held and automatically unmuted once it is released.



#### 7.6 CONFERENCE CONTROL - CONTROL UNIT

##### ALL UNIT OFF/ON

Switches all connected microphone units on or off simultaneously.

##### CERTAIN UNIT OFF/ON

Switches a specific microphone unit on or off by entering its assigned ID.

**Note:** All units can be active when the system is set to All On Mode.

##### CERTAIN UNIT ADDRESSING

Allows the user to assign a specific ID to an individual microphone unit.

*Example:* In a system with 30 microphones, a newly added unit can be manually assigned ID 31.

**Note:** Only one microphone unit should be connected to the controller during this operation. All other units must be disconnected.

##### ALL UNIT ADDRESSING

Automatically assigns IDs to all connected microphone units, starting from a user-defined initial ID. IDs are set in ascending order.

**Note:** Reboot the controller after completing the operation to apply changes.



### 7.7 CONFERENCE CONTROL - VOLUME

#### LINE IN / OUT

Adjusts the audio levels for input and output signals.

#### SOUND CONTROL

Adjusts the sensitivity of the voice activation function.

#### BUZZER MUTE

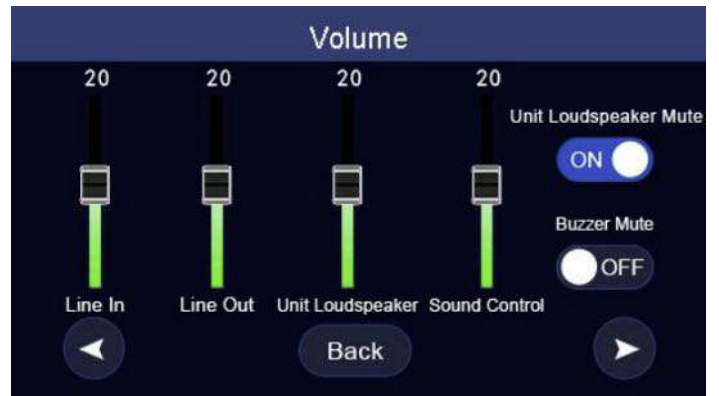
Enables or disables the controller's buzzer.

#### UNIT LOUDSPEAKER

Controls the volume of the built-in speakers on all microphone units.

#### UNIT LOUDSPEAKER MUTE

Mutes the built-in speakers on all microphone units when enabled.



### 7.8 CAMERA TRACKING

#### CAMERA SETUP

Supports multiple camera protocols: VISCA (SONY-D70), Pelco-D, Pelco-P (baud rate: 9600), and Yaan (baud rate: 4800).

#### FOCUSING

The camera adjusts focus automatically, but manual adjustment is also available if needed.

#### CAMERA NO.

Selects the desired camera for configuring tracking positions.

#### ROTATE RATE

Sets the camera's rotation speed.



### 7.9 CAMERA CONTROL

The camera control window allows the user to manually adjust the movement of the selected camera..

**Note:** The system supports up to 6 cameras when used with a video switch. The controller will automatically assign IDs to each camera. If automatic assignment fails, users can manually set the camera IDs. Ensure all cameras are powered on first before switching on the controller to follow the correct initialisation sequence.



### 7.10 CAMERA TRACKING - SETUP PRESET

#### PRESET POINT

The Preset Point refers to the Unit ID assigned during the initial setup for configuring camera tracking positions.

**Operation:** To configure the camera to track Microphone Unit No. 1, enter "1" at the Preset Point. Then navigate to the Camera Tracking and Camera Control interfaces to adjust the camera's position for Unit 1 and press Save Preset.

Repeat this process for each microphone unit as needed.

**Note:** The system's default Preset Point is set to "0," which represents the default overview position of the meeting room. When no microphones are active, the camera will return to this default view.

#### TEST PRESET

Verifies whether the tracking preset has been correctly configured.

#### DELETE PRESET

Deletes all saved camera tracking presets.

#### FREEZE

Freezes the camera image during movement for smoother transitions.

#### VIEW PRESET

Displays a list of all saved camera tracking presets.

#### UNIT LIGHT ON/OFF

Toggles the indicator light on a microphone unit to help the operator identify it during setup or operation.



### 7.11 CAMERA TRACKING - PRESET PROPOSAL

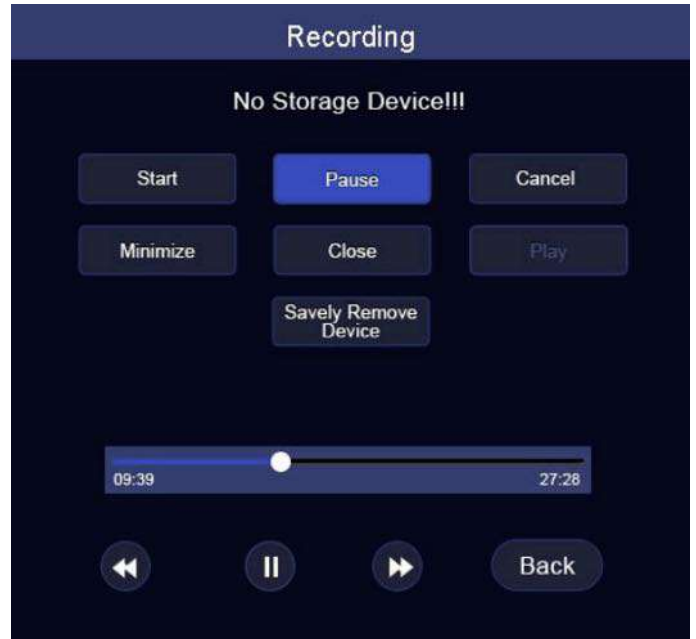
The current system setup can be saved as a proposal. Multiple proposals can be stored and recalled as needed for different meeting configurations.



### 7.12 RECORDING

The system includes a built-in audio recording function. Users can record and playback audio directly through this interface.

Supports USB flash drives (FAT32 format, up to 32GB) with recordings saved in MP2 format at 128 kbps.



### 7.13 SYSTEM SETUP

#### SETUP IP ADDRESS

Defines the IP address used to access the web management system.

#### HOST CONNECTION MODE

Enables or disables the extension connection feature.

#### RESTORE TO PRESET

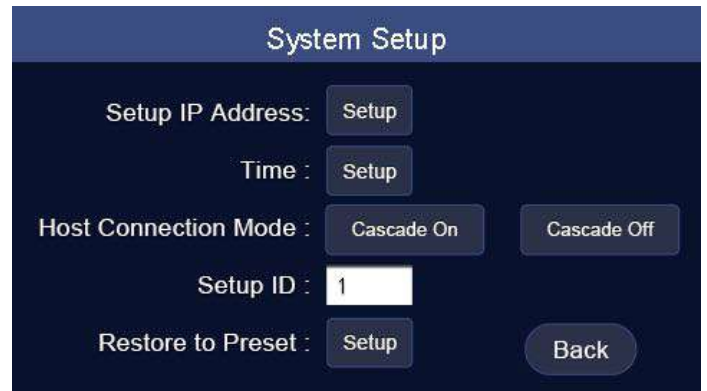
Restores the system to its factory default settings.

#### TIME

Sets the system time.

#### SETUP ID

Assigns a unique ID to the controller. Each controller in an extension setup must have its own unique ID.



### 7.14 QUICKMARK

Allows users to quickly access the web management system by scanning the displayed QR code.



### 7.15 RESTART

Reboots the system.



# 8 - SPECIFICATIONS

## 8.1 CS-200L CENTRAL UNIT

Feature	Specification
Power supply	AC 110 - 220V/ 50 - 60 Hz
Power consumption	200 W
Units capacity	100 units
Frequency response	30Hz - 20KHz
SNR	90 dB
Dynamic range	110 dB
Harmonic distortion	<0.05%
Output impedance	XLR:2.2K , Line out:1K
Audio input	Tel in : -3 dBV Line in : 6.5 dBV
Audio output	Tel out : 15 dBV Line out : 0 dBV BAL out: -4 dBV
Connector	MIC - RJ45 X 8 Tel. coupler - RCA X 2 Controller - RS-232 X 2 Video switch - RS-232 X 1 Camera - RS-232 X1, 12P Terminal block Audio input - RCA X 1 Audio output - XLR X 1, RCA X 1 PC - USB X 1 Audio recording - USB X 1 Ethernet - RJ45 X 1
Dimension	483 x 323 x 90 mm
Weight	5.5 kg
Colour	Black

## 8.2 MIC UNIT

Feature	Specification
Power supply	DC 24 V
Working current	60 mA
Capsule	Condenser
Pattern	Cardioid
Sensitivity	-50 dB/Pa
Frequency response	100 Hz - 12 KHz
SNR	80 dB
Dynamic range	95 dB
Harmonic distortion	<0.1%
Input impedance	2.2K
Speaker	3 W / 4 Ω
MIC length	420 mm
Connector	MIC - RJ45 X 1 Earphone - 3.5mm x 1
Dimension	193 x 145 x 65 mm
Weight	0.95 kg
Colour	Black / Silver

## WHARFEDALE PRO LIMITED WARRANTY

Wharfedale Pro products are warranted of manufacturing or material defects for a period of three years from the original date of purchase. In the event of malfunction, contact your authorised Wharfedale Pro dealer or distributor for information. Please be aware that the warranty details may differ from country to country. Contact your dealer or distributor for information (available at [www.wharfedalepro.com](http://www.wharfedalepro.com)). These terms do not infringe your statutory rights.



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