



WiFi Support

## DCW5000 Series

### Digital Wireless Conference System



Discussion



Simultaneous Interpretation

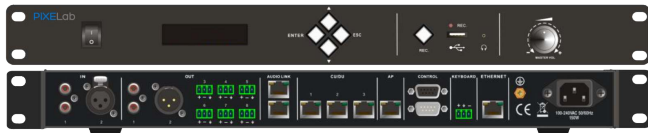


Voting



## DCW5000 Series

### Digital Wireless Conference System



Discussion



Simultaneous Interpretation



Voting

### Technical Specifications

<b>Frequency Response</b>	20 Hz ~ 20 kHz (-3 dB @ nominal)
<b>Total Harmonic Distortion (THD)</b>	< 0.05%
<b>Channel Crosstalk</b>	> 85 dB
<b>Signal to Noise Ratio (S/N)</b>	> 96 dBA
<b>Dynamic Range</b>	> 94 dB
<b>Power to Delegate Units</b>	PoE (48 VDC), max. 150W
<b>Interface</b>	
Discussion Units / Expander:	2 x RJ45
RS-485 / RS-232:	9-pin D-Sub (M) external control & (F) camera control
RS-485 Keyboard:	1 x 3-pin Phoenix Screw Terminals
Ethernet:	1 x RJ45
<b>Wireless AP / Router:</b>	<b>1 x RJ45</b>
Audio Input:	1 x RCA, 1 x XLR
Audio Output:	1 x RCA, 1 x XLR, 6 x Phoenix Screw Terminals
Digital Audio Interface :	2 x RJ45
Headphone :	1 x 3.5mm phone socket
Recording Interface :	1 x USB
<b>Power Requirements</b>	110~240VAC, 50/60 Hz; 12W (Idle) / 150W max.
<b>Operating Temperature</b>	0°C ~ 40°C;
<b>Operating Humidity</b>	Humidity 10~85% (Non-Condensing)
<b>Dimensions (WxHxD)</b>	483 x 44 x 260 mm
<b>Weight</b>	3 kg

- ❖ Supports voting function:
  - (i) APPROVE / OBJECT
  - (ii) APPROVE / ABSTAIN / OBJECT
  - (iii) RATING of 1 to 5
  - (iv) RANKING: -- / - / 0 / + / ++

### DCW5064P-CC

## Digital Wireless Network Conference Controller with DSP

- ❖ Network port available to support optional wireless dual-band access point (DCW5000-AP) with compliance to IEEE 802.11n standard WiFi for 2.4 Ghz and 5 Ghz band with strong anti-interference capabilities, wireless discussion units can be connected to the DCS5064-CCW.
- ❖ AUDIO-LINK™ digital ring network technology to provide bandwidth management of 64 simultaneous audio channels in all-digital signal transmission and processing.
- ❖ One CAT5e network cable transmits 64 channels of audio and data control.
- ❖ High fidelity sound quality, lossless audio transmission technology, 48K audio sampling frequency, 20 Hz ~ 20 kHz frequency response.
- ❖ User selection of up to 6 simultaneous delegates (1, 2, 4, or 6 units) with various operation mode (OPEN, APPLY, FREE, OVERRIDE).
- ❖ Ring redundant loop network connection enables the system to operate and perform a hot-swap with automatic recovery function when there is a unit failure or a break in the line.
- ❖ Independent level control and 8-band equalizer for individual tone adjustment.
- ❖ **Built-In Audio DSP functions: Automatic Gain Control (AGC) for automatic level adjustment, Adaptive Feedback Cancellation (AFC), Acoustic Noise Cancellation (ANC) to prevent acoustic feedback and echo cancellation (EC).**
- ❖ Support USB interface for USB storage disk for audio recording with advanced noise elimination technology for clearer recording.
- ❖ Utilising the expansion unit (DCS3020-E), the conference system is able to be extended up to 5200 delegates.
- ❖ The unit automatically assigns each delegate unit a unique ID to eliminate ID conflicts.
- ❖ Supports 2 channel of additional audio inputs and 8 channel audio outputs to the room AV system, simultaneous interpretation system and other systems.
- ❖ Supports TCP/IP connection to the host PC for synchronous control of the system (unit ON/OFF, Priority & Level Control).
- ❖ RS-485 / RS-232 output to send PELCO & VISCA protocols for PTZ camera telemetric control with auto-tracking function.



## DCW5000 Series

### Digital Wireless Conference System



### DCW5010-CU Digital Wireless Chairman Unit

### DCW5010-DU Digital Wireless Delegate Unit

- ❖ Fully-digital signal transmission and processing, completely eliminating RF interference from cell phone or similar devices.
- ❖ Compliance to IEEE 802.11n WiFi standard, support 2.4GHz and 5GHz on all channels with 128-bit encryption technology, WAP2 secure connection, MAC address filtering and SSID masking to prevent wiretapping and unauthorised access.
- ❖ Maximum 8 simultaneous wireless unit in operation.
- ❖ Stylish, low profile design with an OLED touch screen and a timer display to prompt a real-time countdown timer for the unit to be active with auto mic cut-off.
- ❖ Display of WiFi signal strength and battery power status.
- ❖ Detachable li-ion rechargeable battery pack for ease of charging and replacement of battery unit. 20 hours of continuous usage on a fully-charged battery / 48 hours standby.
- ❖ Built-in high fidelity speaker unit which is automatically muted when the unit is in use to prevent acoustic feedback.
- ❖ Headphone output at both sides of the unit with adjustable volume knob.
- ❖ Line-In interface for connection to devices with audio output such as laptop or mobile phone for teleconferencing.
- ❖ Multiple chairman units can be set as VIP mode (up to 32 units) where every VIP unit can be simultaneously used.
- ❖ 16-level equaliser for individual tone control, limiter circuit to cap the output level of the unit and prevent clipping & distortion and Active Noise Control (ANC) to turn on the microphone only when in use.
- ❖ Automatic Gain Control (AGC) automatically adjusts the level of the unit in use for the optimum output level, Adaptive Feedback Cancellation (AFC) to prevent acoustical feedback and Auto-Mix to provide a uniform loudness for every delegate.
- ❖ Precision uni-directional high sensitivity condenser gooseneck microphone coupled with an acoustically transparent foam windshield to prevent noise pop.
- ❖ Bi-colour LED indicator ring at the gooseneck microphone and at the unit to indicate the unit status.
- ❖ Chairman unit (DCW5010-CU) comes with PRIORITY Override button to mute all delegate units.

### Technical Specifications

Frequency Response	20 Hz ~ 20 kHz (-3 dB @ nominal)
Total Harmonic Distortion (THD)	< 0.1%
Sensitivity	-46 dBV / Pa
Microphone	Cardioid Condenser 2-Section Gooseneck
Input Impedance	2 kW
Signal to Noise Ratio (S/N)	> 96 dB
Dynamic Range	> 94 dB
Removable Battery	7.2Vdc, 4900 mAH Rechargeable Lithium Ion
Power Dissipation	2W max.
Interface	Display: 2.23inch OLED display Headphones: 2 x 3.5mm Stereo Headphone Jack Audio Input: 1 x 3.5mm Stereo Input Jack Pluggable Microphone Base: 1 x XLR (M)
Request to Talk	Touch Panel with 128 x 32 pixel OLED
Discussion Modes	FIFO, OPEN, VOICE, APPLY, APP
Loudspeaker Output	> 70 dB SPL @ 0.5m
Headphone Output	2 x 3.5 mm stereo, 25 mW
Headphone Impedance	16W
Operating Temperature	0°C ~ 55°C;
Operating Humidity	Humidity 10 ~ 85% (Non-Condensing)
Dimensions (WxDxH)	185 x 130 x 50 mm
Weight	0.8 kg (without microphone)



## DCW5000 Series

Digital Wireless Conference System



\* image shown with optional gooseneck microphone

**DCW5010I-CU**  
Digital Wireless Chairman Unit  
with Simultaneous Interpretation

**DCW5010I-DU**  
Digital Wireless Delegate Unit  
with Simultaneous Interpretation

### DCW5010I-CU

Digital Wireless Chairman Unit  
with Simultaneous Interpretation

### DCW5010I-DU

Digital Wireless Delegate Unit  
with Simultaneous Interpretation

- ◆ Maximum 64 language channels selectable at the touch screen to be line out to the headphone outputs.



\* image shown with optional gooseneck microphone

**DCW5010IV-CU**  
Digital Wireless Chairman Unit  
with Simultaneous Interpretation  
& Voting Function

**DCW5010IV-DU**  
Digital Wireless Delegate Unit  
with Simultaneous Interpretation  
& Voting Function

### DCW5010IV-CU

Digital Wireless Chairman Unit  
with Simultaneous Interpretation  
& Voting Function

### DCW5010IV-DU

Digital Wireless Delegate Unit  
with Simultaneous Interpretation  
& Voting Function

- ◆ Supports voting function:
  - (i) APPROVE / OBJECT
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## DCW5000 Series

### Digital Wireless Conference System



#### DCW5000-AP

#### 2.4/5 GHz Conference Access Point

- ❖ Connects to the Conference Controller directly or to a network switch to support multiple APs in the same system.
- ❖ Typical coverage range of 30m.
- ❖ Ceiling mount, wall mount or stand mount.
- ❖ 128 bit digital encryption technology with WAP2 secure connection, MAS address filtering, SSDI-hiding to prevent wiretapping and unauthorised access from rogue unit.
- ❖ Built-In Status Indicator for Signal/Power.
- ❖ 5 Ghz clutter-free frequency band.
- ❖ PoE powered RJ-45 port for LAN connection

#### Technical Specifications

Connection to Controller	1 x RJ45
Coverage Range	up to 30m (without obstruction)
Power Requirements	PoE Powered, 11W
Operating Condition	0°C ~ 55°C; Humidity 10 ~ 85% (Non-Condensing)
Dimensions (WxHxD)	220 x 220 x 45 mm
Weight	0.3 kg



#### DCW5000-CG

#### Li-Ion Battery Charger

- ❖ Rapid charge the Li-Ion battery pack in 3 hours to full capacity.
- ❖ Simultaneous charging of 8 battery packs.
- ❖ Wide range power input: 100V ~ 240VAC
- ❖ Clip-Loc design to prevent poor contact with battery pack.
- ❖ Light weight & simple setup.

#### Technical Specifications

Input	100 ~ 240 VAC, 50 ~ 60 Hz
Output	7.2V; 1000 mA
Power Requirements	20W
Operating Conditions	0°C ~ 55°C; Humidity 10 ~ 85% (Non-Condensing)
Dimensions (WxHxD)	320 x 200 x 50 mm
Weight	2 kg



#### DCW5000-BP

#### Li-Ion Battery Pack

- ❖ 4900 mA battery capacity with output voltage of 7.2V.
- ❖ Lithium Ion Battery Technology
- ❖ Long life and stable discharge performance.
- ❖ Continuous usage of up to 24 hours, fully charged.
- ❖ Able to be fully charged in 4 hours.

#### Technical Specifications

Operating Temperature	-20°C ~ 60°C
Weight	285 g



## DCW5000 Series

### Digital Wireless Conference System

#### Typical Application

