



DCS5000 Series

Digital Network Conference System



Discussion



Simultaneous Interpretation



Voting



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Simultaneous Interpretation



Voting

Technical Specifications

Frequency Response	20 Hz ~ 20 kHz (-3 dB @ nominal)
Total Harmonic Distortion (THD)	≤ 0.05%
Channel Crosstalk	> 85 dB
Signal to Noise Ratio (S/N)	> 96 dBA
Dynamic Range	> 94 dB
Power to Delegate Units	PoE (48 VDC), max. 150W
Interface	
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
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
Power Requirements	110~240VAC, 50/60 Hz; 12W (Idle) / 150W max.
Operating Temperature	0°C ~ 40°C;
Operating Humidity	Humidity 10~85% (Non-Condensing)
Dimensions (WxHxD)	483 x 44 x 260 mm
Weight	3 kg

DCS5064P-CC

Fully Digital Network Conference Controller with DSP

- ❖ Simple and intuitive function key design, self-explanatory and immediate use out of the box.
- ❖ 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.**
- ❖ Supports voting function:
 - APPROVE / OBJECT
 - APPROVE / ABSTAIN / OBJECT
 - RATING of 1 to 5
 - RANKING: -- / - / 0 / + / ++



DCS5000 Series Digital Network Conference System



Technical Specifications

Frequency Response	20 Hz ~ 20 kHz (-3 dB @ nominal)
Sensitivity	-46 dBV / Pa
Microphone	Cardioid Condenser 2-Section Gooseneck
Input Impedance	2 kW
Signal to Noise Ratio (S/N)	70 dB
Dynamic Range	125 dB max (THD <3%)
Power from Controller	PoE (48 VDC), max. 2W
Interface	Connection to Controller: 2 x RJ45 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
Headphone Output	3.5 mm stereo, 10 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	1.1 kg (without microphone)

DCS5010-CU

Digital Chairman Unit

DCS5010-DU

Digital Delegate Unit

- ❖ Fully-digital signal transmission and processing, completely eliminating RF interference from cell phone or similar devices.
- ❖ 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.
- ❖ The use of standard off-the-shelf UTP/STP cable coupled with RJ45 connectors makes installation & maintenance a breeze.
- ❖ 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.
- ❖ 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 (DCS5010-CU) comes with PRIORITY Override button to mute all delegate units.



DCS5000 Series Digital Network Conference System



Technical Specifications

Connection to Controller	1 x RJ45
Connection to Next Expansion	1 x RJ45
Connection to Delegate Unit	4 x RJ45
Max. Nos. of Delegate Unit	120 delegates
Max. Nos. of Delegate per port	30 delegates
Power Requirements	110 ~ 240 VAC, 150W
Operating Temperature	0°C ~ 55°C;
Operating Humidity	Humidity 10 ~ 85% (Non-Condensing)
Dimensions (WxHxD)	223 x 92 x 37 mm
Weight	0.5 kg

Length of Extension Cable from Controller to Expansion Unit	Number of Delegates				Total
	Port 1	Port 2	Port 3	Port 4	
5 m	30	30	30	30	120
10 m	28	28	28	28	112
20 m	24	24	24	24	96
50 m	20	20	20	20	80
100 m	10	10	10	10	40

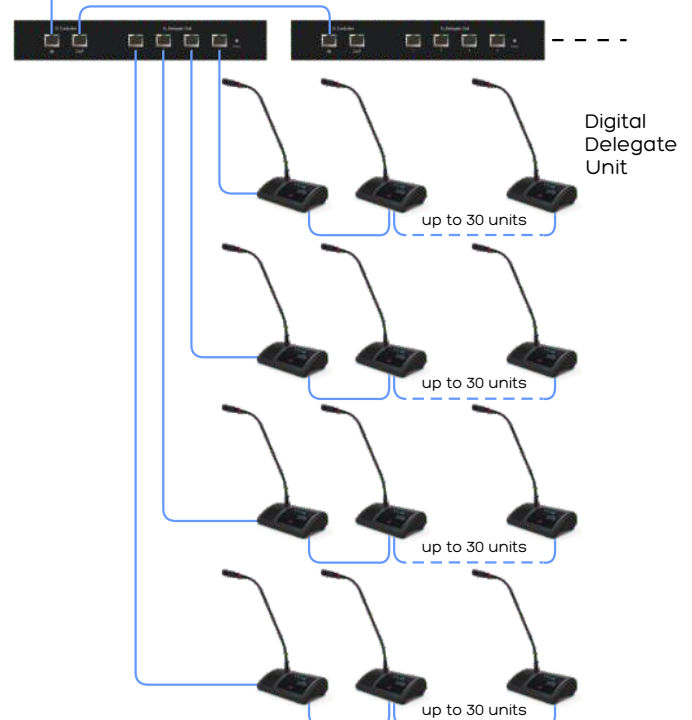
DCS3020-E Expansion Unit

- ❖ Connects to the Conference Controller to expand the system up to 5200 delegate units.
- ❖ Each Expansion Unit has 4 ports that supports up to 30 delegates per port (depending on cable distance).
- ❖ AUDIO-LINK™ digital ring network technology to realize all-digital signal transmission and processing.
- ❖ One CAT5e network cable transmits 64 channels of audio and data control.
- ❖ The use of standard off-the-shelf UTP/STP cable coupled with RJ45 connectors makes installation & maintenance a breeze.
- ❖ Loop out RJ45 connection to the next expansion unit.
- ❖ Self Powered unit from AC mains power supply and supply to all delegate units connected to it.
- ❖ Noiseless fan-free operation.

Conference Controller



Expansion Unit



DWS-MIC-410

Pluggable Condenser Gooseneck Microphone in XLR



Features

- Precise directional microphone head with Mini design and LED ring indicator
- anti-wind microphone foam cover
- Strong audio collection ability to work with different length of microphone
- Quick installation design, the standard 3-pin Canon male XLRM at the microphone peak terminal can be connected to any conference microphone peak designed with the 3-pin Canon female XLRF
- Good sound insulation design, can avoid the appearance of howling at the maximum gain
- Easy-to-adjust, durable, small, gooseneck curved structure that can quickly and randomly fix the microphone in a suitable position

Technical Parameters

electrostatic capacitive type

Line Cardioid

Frequency response 30-20,000 Hz

Activation sensitivity: -40 dB (10.0 mV) at 1V at 1 Pa

Impedance 250 ohm

Maximum input sound pressure level: 138 dB sound pressure, 1 kHz at 1% T.H.D.

0.5% 1kHz at 128dB

Dynamic range (normal)

109 dB, 1 kHz at maximum sound pressure

Signal to noise ratio: 65 dB, 1 kHz at 1Pa

Phantom power: DC 11-52V DC, power consumption 4 mA typical

Size: 18 mm-bottom diameter

Main supply: Phantom DC16V~52 V

Output Interface: Built-in 3-pin Canon male head

Length:

DWS-MIC-485 485mm

DWS-MIC-410 410mm

Weight:

DWS-MIC-485 170g

DWS-MIC-410 150g

Color: Black

Item Model for Order

DWS-MIC-410..... 410mm Microphone, with anti-wind foam cover, XLR type