

Digital Network Conference System















Digital Network Conference System





Weight





Technical Specifications

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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				

3 kg

DCS5064P-CC

Fully Digital Network Conference Controller with DSP

- Simple and intuitive function key design, self-explainatory 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:
 - (i) APPROVE / OBJECT
 - (ii) APPROVE / ABSTAIN / OBJECT
 - (iii) RATING of 1 to 5
 - (iv) RANKING: -- / / 0 / + / ++





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Technical Specifications

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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				
'	2 x 3.5mm Stereo Headphone Jack 1 x 3.5mm Stereo Input Jack				
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.

PIXELab



DCS5000 Series

Digital Network Conference System



DCS5010I-CU Digital Chairman Unit with Simultaneous Interpretation

DCS5010I-DU Digital Delegate Unit with Simultaneous Interpretation

DCS5010I-CU

Digital Chairman Unit with Simultaneous Interpretation

DCS5010I-DU

Digital Delegate Unit with Simultaneous Interpretation

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



DCS5010IV-CU Digital Chairman Unit with Simultaneous Interpretation 8 Voting Function

DCS5010IV-DU
Digital Delegate Unit
with Simultaneous Interpretation
8 Voting Function

DCS5010IV-CU

Digital Chairman Unit with Simultaneous Interpretation & Voting Function

DCS5010IV-DU

Digital Delegate Unit with Simultaneous Interpretation & Voting Function

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





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				

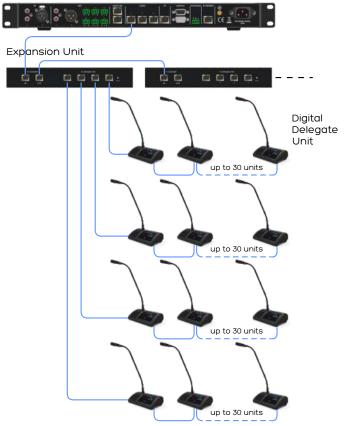
Length of Extension Cable from Controller to Expansion Unit	Port 1	Number Port 2	er of Deleg Port 3	gates Port 4	Total
5 m	30	30	30	30	120
10 m	28	28	28	28	112
20 m	24	24	24	24	96
50 m	20	20	20	20	80
100 m	10	10	10	10	40

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 alldigital 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





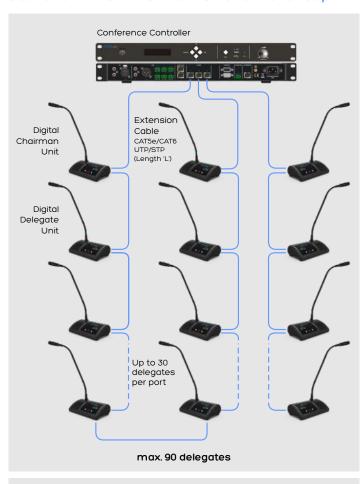




Digital Network Conference System

Typical Application

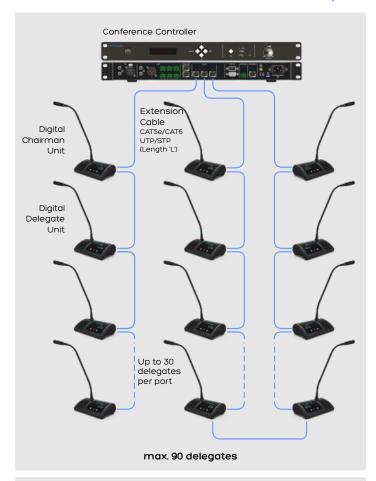
Scenario A - PORT 18 2 forms Redundant Loop



Maximum Delegates per CU/DU Port

L = 5m: max. 30 per port L = 10m: max. 28 per port L = 20m: max. 24 per port L = 50m: max. 20 per port L = 100m: max. 20 per port

Scenario B - PORT 2 & 3 forms Redundant Loop



Maximum Delegates per CU/DU Port

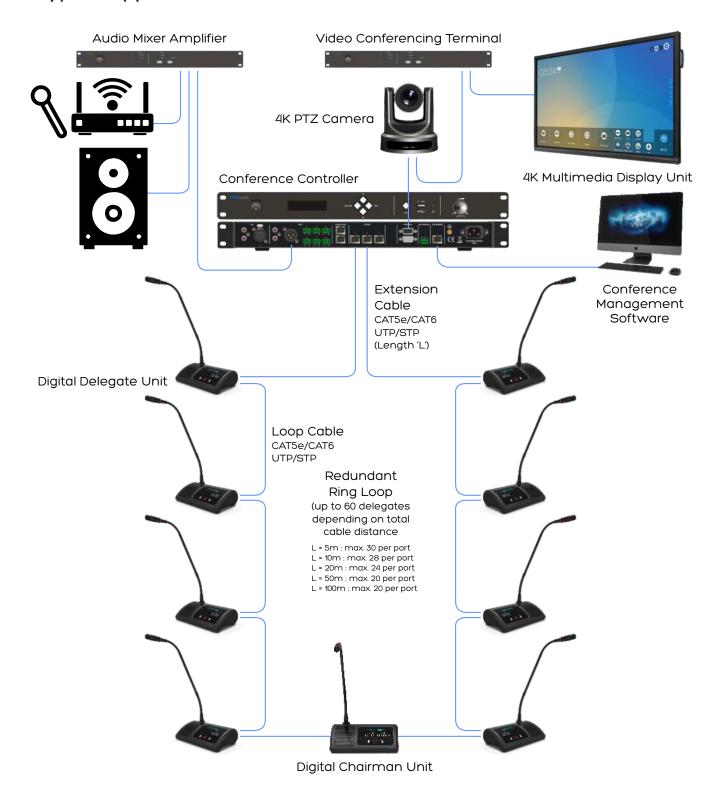
L = 5m : max. 30 per port L = 10m : max. 28 per port L = 20m : max. 24 per port L = 50m : max. 20 per port L = 100m : max. 20 per port





Digital Network Conference System

Typical Application







Digital Network Conference System

Typical Application

Scenario C - Using the Expansion Unit to Increase the delegate units > 90

