



DMA4000 Series Digital Network Conference System





DMA4000 Series Digital Network Conference System



Technical Specifications

Frequency Response	20 Hz ~ 20 kHz (-3 dB @ nominal)
Total Harmonic Distortion (THD)	< 0.05%
Channel Crosstalk	> 80 dB
Signal to Noise Ratio (S/N)	> 80 dB
Dynamic Range	> 94 dB
Power to Delegate Units	PoE (48 VDC), max. 150W
Interface	RS-485 / RS-232: 9-pin D-Sub (M) & (F)
	Ethernet: RJ45
Power Requirements	100~240VAC, 50/60 Hz; 12W (Idle) / 150W max.
Operating Temperature	0°C ~ 40°C;
Operating Humidity	Humidity 10~85% (Non-Condensing)
Dimensions	483 (L) x 26 (W) x 44 (H) mm
Weight	3 kg

DMA4064P-CC

Fully Digital Network DSP Conference Processor for Array mic

- ❖ Simple and intuitive function key design, self-explanatory and immediate use out of the box.
- ❖ AUDIO-LINK™ digital ring network technology to realize all-digital signal transmission and processing
- ❖ Single CAT5e cable transmits 64 channels of audio and various information.
- ❖ High fidelity sound quality, lossless audio transmission technology, 48K audio sampling frequency, 20 Hz ~ 20 kHz frequency response.
- ❖ User selection of numbers of simultaneous delegates (1, 2, 4 or 6 units) with various operation mode (OPEN, APPLY, VOICE, OVERRIDE), supports up to 32 wired microphone in full-on mode.
- ❖ All microphone units support audio, ID independent output. Working with voice recognition system to achieve voice role separation.
- ❖ The sensitivity of the unit microphone and 8 segment equalizer EQ adjusted independently.
- ❖ Support USB interface for USB storage disk for audio recording with advanced noise elimination technology to realize clearer recording.
- ❖ Echo cancellation, remote 2 way real-time call with another conference controller or another third-party video conferencing terminal.
- ❖ The unit automatically assigns each delegate unit a unique ID to eliminate ID conflicts.
- ❖ Supports 1 channel of additional audio input and 1 channel audio output to the room AV system.
- ❖ 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 protocol for PTZ camera telemetric control.
- ❖ Utilising the expansion unit (DCS3020-E), the conference system is able to be extended up to 5200 delegates.
- ❖ Supports up to 8 wireless microphones to be turned on at the same time, adaptive avoiding interference technology to achieve stronger anti-interference ability, compliance with IEEE 802.11n standard Wi-Fi both for 2.4GHz and 5GHz.
- ❖ 2 channel audio input, XLR or RCA type, for local audio input or remote video-conferencing input.



DMA4000 Series Digital Network Conference System

DMA4010-CU

Digital Chairman Unit

DMA4010-DU

Digital Delegate Unit



DMA4010-CU
Fully Digital Chairman Unit

DMA4010-DU
Fully Digital Delegate Unit

Technical Specifications

Button	Touchable interface
Sound Pickup	up to 120cm
Maximum power consumption	1.0W
Headphone load	16Ω
Headphone volume	10mW
Headphone jack	3.5mm stereo
Input impedance	2kΩ
SNR	70dB
Frequency response	20 ~ 20000Hz
Connection	CAT5 / CAT6 cable + RJ45
Equivalent noise	20dBA (SPL)
Operating temperature	0 °C to +55 °C
Color	Silver or Black
Dimension	305 (L) x 45 (W) x 42 (H) mm
Weight	0.7kg

- ❖ HALO-Tech™ Microphone array technology and the voice pick-up distance up to 120cm.
- ❖ Built-in Automatic Gain Control (AGC) technology, the acoustic transmission gain is increased. Using internal microphone capsules, the conference room looks tidy and clean.
- ❖ Single CAT5e cable transmits 64 channels of audio and various info.
- ❖ Stylish and modern design with touchable button.
- ❖ Standard CAT5e and RJ45 connectors are used in microphone to provide more convenient on project and maintenance.
- ❖ Priority button and approval button for chairman unit.
- ❖ One 1.5m cable out to connect the splitter box and keep the table clear.
- ❖ Strong system robust by the "Hand-in-Hand-Loop-Network" connection technology.
- ❖ Support Hot plug and play, auto-recovery function.
- ❖ AUDIO-LINK™ digital bring network technology to realize-all-digital signal transmission and processing.
- ❖ High fidelity sound by zero loss audio transmit technology, 48K audio sampling frequency, 20Hz~20KHz response frequency.
- ❖ Conference controller can output 16 segment equalized EQ to achieve sound field adjustment; pressure limit, which can recognize the noise gate passed by human voice.
- ❖ Automatic Gain Control (AGC) automatic volume gain control; Adaptive Feedback Cancellation (AFC) automatic feedback suppression and auto-mix technology.
- ❖ Chairman unit has the MIC switch button, priority and approval the application for speaking.
- ❖ This system assigned to each unit independently ID to avoid duplicate ID conflict.
- ❖ Button for MIC ON/OFF, Priority & Apply Answer button for chairman unit.
- ❖ User selection of numbers of simultaneous delegates (1,2,4 or 6 units) with various operation mode (OPEN,APPLY, VOICE, OVERRIDE).
- ❖ Work PIXELab series HD camera and PIXELab switcher, it can realize camera auto tracking function.



DMA4000 Series Digital Network Conference System

DMA4020R-CU/ DMA4020R-DU Digital Array Microphone with lifting device



DMA4020R-CU / DMA4020R-DU
Digital Array Microphone with lifting device

Technical Specifications

Button	Touchable interface
Sound Pickup	up to 120cm
Maximum power consumption	1.0W
Headphone load	16Ω
Headphone volume	10mW
Headphone jack	3.5mm stereo
Input impedance	2kΩ
SNR	60dB
Frequency response	10 ~ 17000Hz
Connection	CAT5 / CAT6 cable + RJ45
Equivalent noise	20dBA (SPL)
Operating temperature	0 °C to +55 °C
Color	Silver or Black
Dimension including chassis	415 (L) x 60 (W) x 562 (H) mm
Weight	6 kg

- ❖ Stylist and modern design with touchable button, flush mount on the desk with electrical lifting.
- ❖ HALO-Tech™ Microphone array technology and the voice pick-up distance up to 120cm.
- ❖ Built-in Automatic Gain Control (AGC) technology, the acoustic transmission gain is increased. By hiding the mic capsule inside without gooseneck mic, the conference room looks tidy and clean. Even if the orator is moving in a larger area, the microphone can maintain a clear and stable pickup.
- ❖ Standard CAT5e and RJ45 connectors are used in microphone to provide more convenient on project and maintenance.
- ❖ One 1.5m cable out to connect the splitter box and keep the table clear.
- ❖ AUDIO-LINK™ digital bring network technology to realize-all-digital signal transmission and processing.
- ❖ Support Hot plug and play, auto-recovery function.
- ❖ Single CAT5e network cable transmits 64 channels of audio and data control.
- ❖ High-fidelity sound quality, lossless audio transmission technology, 48K audio sampling frequency, 20Hz~20KHz response frequency.
- ❖ The unit automatically assigns each delegate unit a unique ID to eliminate ID conflicts.
- ❖ Conference controller can output 16 segment equalized EQ to achieve sound field adjustment; pressure limit, which can recognize the noise gate passed by human voice. AGC automatic volume gain control; AFC automatic feedback suppression and auto-mix technology.
- ❖ Chairman unit has the MIC switch button, priority and approval the application for speaking.
- ❖ User selection of numbers of simultaneous delegates (1,2,4 or 6 units) with various operation mode (OPEN,APPLY, VOICE, OVERRIDE).
- ❖ Combined with camera and camera tracking controller, it has an automatic camera tracking function.



DMA4000 Series Digital Network Conference System

DMA4030C-CU

Digital Chairman Unit

DMA4030D-CU

Digital Delegate Unit



DMA4030C-CU / DMA4030D-CU

Digital Array Microphone with channels selector Chairman/ Delegate Unit

Technical Specifications

Button	Touchable interface
Sound Pickup	up to 120cm
Maximum power consumption	1.0W
Headphone load	16Ω
Headphone volume	10mW
Headphone jack	3.5mm stereo
Input impedance	2kΩ
SNR	70dB
Frequency response	20 ~ 20000Hz
Connection	CAT5 / CAT6 cable + RJ45
Equivalent noise	20dBA (SPL)
Operating temperature	0 °C to +55 °C
Color	Silver or Black
Dimension	305 (L) x 45 (W) x 42 (H) mm
Weight	0.7kg

- ❖ Stylish and modern design with touchable button.
- ❖ HALO-Tech™ Microphone array technology and the voice pick-up distance up to 120cm.
- ❖ Built-in AGC technology, the acoustic transmission gain is increased. By hiding the mic capsule inside without gooseneck mic, the conference room looks tidy and clean. Large operating range for the orator, maintaining a clear and stable pick-up performance.
- ❖ OLED screen, providing excellent brightness, contrast, wide viewing angle but low power consumption.
- ❖ Built-in interpretation channel selector.
- ❖ Interpretation function with 64 channels selector which can display the language and channel number (Insert the earphone and the channel selector is active).
- ❖ Time and date display on the OLED screen.
- ❖ Standard CAT5e and RJ45 connectors are used in microphone to provide more convenient on project and maintenance.
- ❖ Single CAT5e cable transmits 64 channels of audio and various information.
- ❖ One 1.5m cable out to connect the splitter box and keep the table clear.
- ❖ Strong system robust by the “Hand-in-Hand-Loop-Network” connection technology.
- ❖ Support Hot plug and play, auto-recovery function.
- ❖ AUDIO-LINK™ digital bring network technology to realize-all-digital signal transmission and processing.
- ❖ High fidelity sound by zero loss audio transmit technology, 48K audio sampling frequency, 20Hz~20KHz response frequency.
- ❖ This system assigned to each unit independently ID to avoid duplicate ID conflict.
- ❖ Automatic Gain Control (AGC)/ Adaptive Feedback Cancellation (AFC)/Active Noise Control (ANC)/ Auto-Mix (Mix) technology.
- ❖ Button for MIC ON/OFF, Priority & Apply Answer button for chairman unit.
- ❖ User selection of numbers of simultaneous delegates (1,2,4 or 6 units) with various operation mode (OPEN,APPLY, VOICE, OVERRIDE).



DMA4000 Series Digital Network Conference System



DCS3020-S Splitter box

- ❖ No noise design
- ❖ Splitting two channels for CU/DU
- ❖ Repeat 2 CU/DU channels for reducing the cables and different project requirements

Technical Specifications

Dimensions	80 (L) x 50 (W) x 23 (H)mm
Weight	0.1 kg



CAT5E-02/CAT5E-05/CAT5E-10/ CAT5E-20/CAT5E-50/CAT5E-100 Professional CAT5E conference extension cables

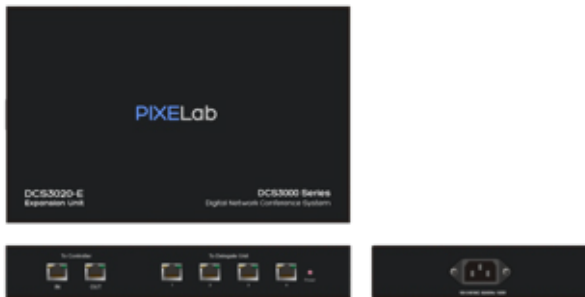
- ❖ TIA/EIA 568B CAT5E
- ❖ ISO/IEC 11801 Class D
- ❖ CELENEC EN50173, EN50167, EN50169
- ❖ UL C (UL) & ETL Verified
- ❖ Extension cable for main unit to CU/DU unit
- ❖ Carry 48DC power and signals
- ❖ Male to Male cable
- ❖ Size from 2m to 100m

Technical Specifications

Connector	Shielded RJ45
Resistance	100ohm±15%,1MHz to 100MHz
Shielding	F/UTP
Delay skew	25ns/100m max
Gauge	24AWG solid bare copper
Flame retardant rating	CM, IEC332/1
Storage temperature	--20°C ~ 80°C
Shielding	--20°C ~ 60°C



DCS3000 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

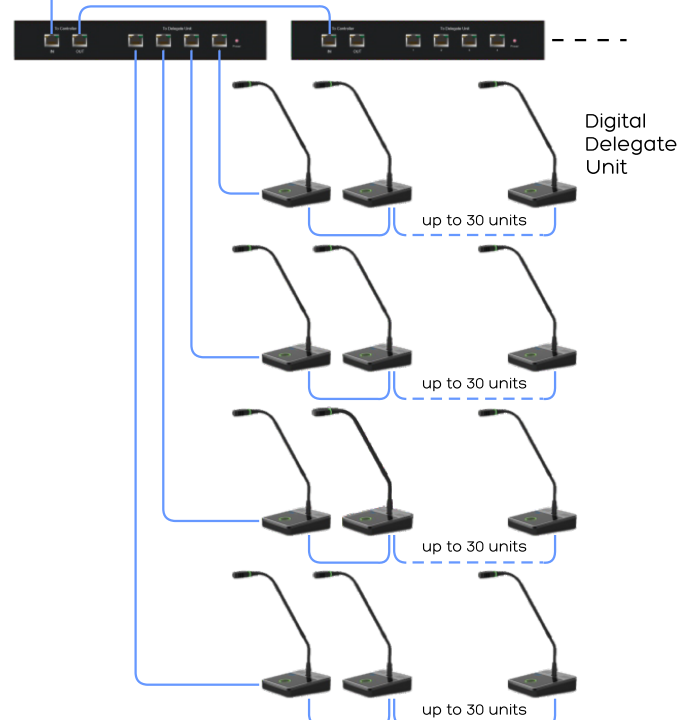
DCS3020-E Expansion Unit

- ❖ 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





DMA4000 Series Digital Network Conference System

Typical Application

