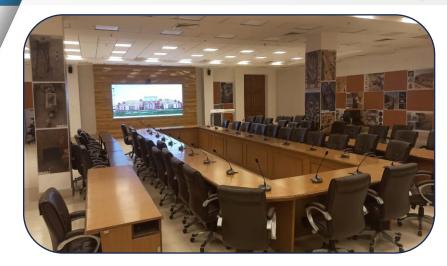# Digital Audio Conference Solution

Let's dive into a new era of audio conferencing with new technologies and new concepts. This solution has been designed to deliver superior audio quality and seamless communication in the environment.

Key Features

- Crucial for modern business
- Crystal clear audio
- Uninterrupted controller power supply
- Touch button Mic to enable / disable
- Central conference system control

* Due to continuous product development, the specifications may change without prior notice
** Product images are for illustration purpose only and may be different from the actual product

Delegate and Chairman Unit

Highly sensitive and unidirectional gooseneck condenser microphone Priority switch available in chairman unit.

Conference Control Unit

Conference control unit with digital recorder for recording the proceedings. It can playback the pre-recorded messages. Provided with headphone output for monitoring purposes. Switchable send/return facility also available.

Amp it up

Amplifiers and speakers are the part of the solution. Wall mount speakers of different – different watts /power are available as per the requirements. Also, Class D amplifiers come with automatic cooling fans for heat dissipation.

Recording with security

Capability to record audio conferences for future reference or distribution. They are totally encrypted, confidential and prevent unauthorized access

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Specifications

Chairmen Unit	IMPACT ADCS-CU
Priority Control	Chairman Unit functionality to override over other mic central control to mute all other microphone
Touch Buttons	Two touches enable button with LED Indication
Microphone type	Electret capacitive
Microphone directionality	Cardioid directionality
Frequency response	80Hz~16KHz
Microphone input impedance	1KΩ
Sensitivity	-46dBV/Pa
Maximum SPL	125dB (THD>3%)
SNR	>80dB(A)
THD	<0.1%
Headphone load	16-32Ω
Maximum headphone volume	40mW
Headphone jack	3.5mm
Maximum power consumption	3 W
LED indication for Mute/Unmute	Supported
Inter Connectivity	Digital Loop-In/ Loop-Out
Connector	2x RJ45 Connector for digital connectivity
Power supply	Controller power supply
Installation	Desktop
Mic Button	Touch Button to enable/ disable microphone
Priority Button	Touch Button for priority function to turn off all delegate units that are speaking
Built-in DSP	Built-in DSP audio processor with 48KHZ sampling rate to provide clear and bright sound
Built in Speakers	Built-in speaker with volume adjustment and howling suppression, when microphone is turned on the built-in speaker should automatically turn off
Audio Output	3.5 mm output sockets with Volume adjustment slider
Delegate Unit	**IMPACT ADCS-DU**
Microphone type	Electret capacitive
Microphone directionality	Cardioid directionality
Frequency response	80Hz~16KHz
Microphone input impedance	1KΩ
Sensitivity	-46dBV/Pa
Maximum SPL	125dB (THD>3%)
SNR	>80dB(A)
THD	<0.1%
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Central Conference System Controller	**IMPACT ADCS-CCU**
Microphone capacity	Support minimum up to 4000 Wired Microphone Unit and 300 wireless Units
Number of Channels	16CH
DSP functionality	Inbuilt DSP with audio matrix, howling suppression, EQ, volume, delay and other adjustment functions
USB Recording	Support audio recording with additional USB Disk/ Pen drive.
Microphone management modes	FIFO/ NORMAL/ VOICE (voice control)/APPLY
Open Microphone	Supports up to 8 wired microphones opened at the same time
Frequency Response	80Hz~20KHz
SNR	>85dB(A)
Dynamic Range	>80dB
Total Harmonic Distortion	<0.05%
Audio Input	2 X Balance Phoenix terminal, 1 X XLR LINE In, 1 X RCA line In or more
Audio Output	16 X Balance Phoenix terminal, 1 X XLR LINE out, 1 X RCA line out or more
Output Load	>1KΩ
Control Display	Inbuilt 4.3-inch TFT colourful touch screen to control the device.
Control Port	1x Alarm, 1x RS485, 1x RJ45 PC control, 1x RJ45 Dante, 1x RJ45 Extention Port, 1x RJ45 WiFi port, 2x RS232 Serial Port or more
LAN Interface	1×RJ45 Network Port
Delegate interconnectivity	4 Nos of 6-pin aviation connector
Extension Port	1 RJ 45 Extension port to Connect to the extension controller
USB interface	USB x1 for Record/playback
Amplifier Output	2×25W/4Ω
Static power consumption	30W
Output power consumption	320W
PTZ Camera control	Supported PTZ camera controlling for Voice tracking functionality