

NEW

INTERACT® | PRO

Professional Conferencing Systems

A professional audio conferencing system offering TRUE stereo echo cancellation at an unbeatable market price. The INTERACT PRO platform is a complete audio system with unrivalled audio performance and application flexibility— all with simplified configuration in mind.

Directly connects to enterprise telephones, PC and HD video conferencing systems and emerging Unified Communications endpoints.

ClearOne



IMPROVE CLARITY
WITH TRUE
STEREO ECHO
CANCELLATION

APPLICATIONS

- + Unified Communications
- + Use with Rich-Media Systems
 - > Web conferencing
 - > Personal computer
 - > IP telephony
 - > Video conferencing
- + Telepresence
- + Board Rooms
- + Conference Rooms
- + Executive Offices

ADVANTAGES

- + Enables Unified Communication in the conference room
- + USB port connects to PC for Skype, WebEx and other A/V conferencing applications
- + Headset port connects to Cisco, Avaya, and Nortel handsets
- + ClearOne's HDConference and NEW true stereo AEC provides unrivalled audio quality and intelligibility
 - > Stereo Echo Cancellation for use with HD video conferencing or Telepresence
 - > Distributed Echo Cancellation® effectively eliminates echo
 - > Noise cancellation reduces background noises from fans or HVAC systems
 - > Full-duplex sound enables participants to speak and listen at the same time without cutting in and out
 - > Automatic level controls keep participants' audio balanced and consistent
 - > First-mic priority eliminates hollow "tunnel" sound by activating only the microphone closest to the person speaking
- + Add INTERACT 8i for up to 16 microphones
- + Integral network management system enables remote configuration, control and monitoring
- + Scalable and flexible to meet most conferencing needs
 - > Add INTERACT Tabletop Dialer for room control
 - > Add INTERACT COM for direct interface to PC or enterprise telephone sets
- + Interoperates with NetStreams™ A/V over IP systems
- + Easy to install, program and use

HDConference™

> INTERACT PRO REAR PANEL



> SPECIFICATIONS

AUDIO PERFORMANCE

Conditions: Unless otherwise specified, all measurements are performed with a 20 Hz to 22 kHz
 BW limit (no weighting)
 Frequency Response: 20 Hz to 22 kHz BW, max Gain
 Noise (EIN): -124 dBu, 22 kHz BW, max gain, Rs=150 Ω
 THD+N: <0.02%
 Dynamic Range: 100 dB (non A-weighted)
 Crosstalk <-91 dB re 17 dBu
 Sampling Rate 48 kHz
 A/D - D/A Converters 24-Bit

Auto Mixer Parameters

Number of Open Microphones (NOM)
 PA Adaptive Mode
 First Mic Priority Mode
 Last Mic Mode
 Maximum # of Mics Mode
 Ambient Level
 Gate Threshold Adjust
 Off Attenuation Adjust
 Hold Time
 Decay Rate

Matrix Mixing Parameters

8 Mic/line analog inputs
 2 line inputs
 8 line outputs
 8 line mic/line in expansion with optional INTERACT 8i
 3 assignable processing blocks in/out

Microphone Input Parameters

Input Gain Adjust
 Mic or Line Level
 Phantom Power on/off
 Echo Cancellation on/off
 Noise Cancellation on/off
 PEQ
 Filters
 Mute on/off
 Chairman Override on/off
 AGC on/off
 Automatic Level Control on/off
 Auto Gate/Manual gate
 Adaptive Ambient on/off
 Pre-AEC channel

Assignable Processing Blocks

Channels: 3
 Filter Nodes: 4 per channel
 Filter Types: All Pass, Low Pass, High Pass, Low Shelving, High Shelving, PEQ, Notch
 Compressor: 1 per channel

Mic/Line Inputs 1-8

Impedance: 5 Kohm per leg or 10 KOhm Balanced
 Maximum Level: -65 dBu to +17 dBu
 Echo Cancellation: 128 ms tail time (works with 12 dB of room gain)
 Phantom Power: 24 Vdc at 10 ma

Line Inputs 9-10

Impedance: 5 Kohm per leg or 10 KOhm Balanced
 Maximum Level: 17 dBu

Line Outputs 1-8

Impedance: 50 Ohm per leg
 Nominal Level: 0 dBu
 Maximum Level: 17dBu

Telephone Interface

Telephone Audio Performance
 Conditions: Unless otherwise specified, all measurements are performed with Transmit Limiter and Receive ALC disabled
 Frequency Response: 250 Hz to 3.3 kHz ±1dB
 THD+N: <0.3% re-max level 250 Hz to 3.3 kHz
 SNR: > 62 dB re-max level
 Telco Line Echo Cancellation
 Tail Time: 32 ms
 Null: 55 dB nominal
 Telephone Noise Cancellation
 Noise Cancellation 6-15 dB attenuation

RS-232 Control Port

DB9 female
 9,600/19,200/38,400/57,600 (default)/115,200
 Baud Rate: 38,400, 56,700(default) 115,200
 Protocol: 8-bit, 1 stop, no parity
 Hardware flow control on (default)/off

USB Configuration Port

USB 1.1 Compatible
 Type: B Connector

LAN

10/100 Ethernet
 RJ-45 with activity LED
 Supports: Telnet, HTTP

Expansion Bus In/Out

Cable:
 Cat 5 Twisted Pair, Solid Conductor
 Maximum Cable Length:
 Between INTERACT PRO and INTERACT 8i:
 80 feet
 Between INTERACT PRO/8i and INTERACT COM: 60 feet

Configuration Software

INTERACT Supports: Microsoft XP, Vista, and Windows 7

INTERACT COM (OPTIONAL)



USB Audio Channel:

USB 2.0 Compatible
 Connector: Mini Type B
 TX and RX Channel, 16-bit at 16 kHz

Headset Audio Channel:

Connector: RJ-9
 Supported Telephone Sets: Most Cisco, Avaya, and Nortel phones
 Audio Performance
 Frequency Response: 40 to 3300 HZ
 THD and Noise: <.04% re-max level with 0 dB gain@1 kHz
 Dynamic Range: >84 dB (non A-weighted)

Audio Processing:

Receive Automatic Level Control
 Line Echo Cancellation for side-tone elimination

GPIO:

Pin 1: Global Mute (C)
 Pin 2: Global Mute (S)
 Pin 3: ON/OFF Hook (C)
 Pin 4: ON/OFF Hook (S)
 Pin 5: 5V dc up to 40 milliamps

INTERACT DIALER (OPTIONAL)



Functions: Dialing, Volume Control, Mute Control
 Communications:
 RS-232 connected to mixer

Power Supply

Primary Voltage: 100 to 240 VAC
 Auto-Sensing, 50-60 Hz
 Power Consumption: 26 W Maximum

Dimensions (W x D x H)

INTERACT PRO: 17" x 7.5" x 2"
 (43.2 cm x 19.1 cm x 5.1 cm)
 INTERACT COM: 4.7" x 5.6" x 1.7"
 (11.9 cm x 14.3 cm x 4.4 cm)

Weight

INTERACT PRO: 4.5 lb. (2 kg)
 INTERACT DIALER: 2.0 lb. (.9 kg)
 INTERACT COM: 1.51 Lb (7 kg)

Compliance

ROHS Compliant
 WEEE Compliant
 UL Safety Listed
 AES48-2005 AES Standard on Grounding and EMC Practice

Optional Accessories

INTERACT - COM
 910-154-030
 INTERACT Dialer
 910-154-035
 INTERACT 8i Input Expander
 910-154-065

Part Number

910-154-055

> CLEARONE LOCATIONS

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