CONVERGE™ | 560/590

Professional Conferencing Systems

An easy-to-use conferencing system with flexible microphone and speaker options. Converge 560 and 590 deliver exceptional audio conferencing quality and value at a price point far superior to the competition. Customizable microphone and speaker options, plus the ability to connect to rich-media systems, allow great flexibility in a wide variety of medium-sized room applications.

APPLICATIONS
- Semi-customized Board Rooms
- Multimedia Conference Rooms
  + Video conferencing
  + Web conferencing
- Distance Learning Rooms
- Classrooms with Video Conferencing
- Deposition & Hearing Rooms

ADVANTAGES
Superior Audio Performance
+ Full-duplex sound enables participants to speak and listen at the same time without cutting in and out
+ ClearEffect™ provides natural, full-sounding audio without requiring wideband on both ends
+ Distributed Echo Cancellation® effectively eliminates echo
+ Noise cancellation removes background noises from fans or HVAC systems
+ 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
+ Ability to add 3rd-party microphones allows flexibility in designing optimal room coverage
+ Local sound distribution (single speaker zone) allows amplification of presenter's voice in near-end room

Rich Media Ready
+ Interfaces with any video or web conferencing system, providing superior audio pickup
+ Camera voice tracking capability allows six or nine camera presets for pan/tilt/zoom in video conferencing applications
+ Recording option allows crystal-clear capture of both sides of conversation, useful particularly in courtroom environments

Ease of Use and Installation
+ Dial pad resembles a standard phone
+ Built-in web server enables remote access
+ Configuration & device management software provides simple user interface for system configuration and operation
+ Microphone distribution boxes contain three industry-standard XLR microphone connectors for flexibility in using 3rd-party microphone solutions
+ Internal 10-watt amplifier drives speaker configuration of choice; external amplifier and speakers can also be added

Flexibility
+ Place mixer on tabletop, credenza, or in rack
+ Mic distribution boxes can be rack mounted or strategically positioned throughout the room to minimize microphone cable runs
+ Wireless or wired controller option
> components

**AUDIO MIXER**
Provides advanced audio processing for superior sound quality. Can be placed on a tabletop, credenza, or in a standard equipment rack.
- + ClearOne audio technologies: Distributed Echo Cancellation®, Noise Cancellation, First Mic Priority, Look-Ahead Gating, ClearEffect®, Adaptive Modeling, Chairman Override Mode
- + Single speaker zone sound distribution allows amplification of presenter’s voice in near-end room
- + Camera control: Camera presets triggered by microphone activation with video conferencing

**TABLETOP CONTROLLER**
Wireless or wired controller provides intuitive interface that emulates a telephone keypad. Converge 560/590 also available without controller included, so system can be used with 3rd party control systems such as AMX or Crestron.

**MICROPHONE DISTRIBUTION BOX**
Converge 560 - two boxes. Converge 590 - three boxes. Each box contains three industry-standard XLR microphone connectors. Boxes are daisy-chained from mixer using standard RJ-45 cables. Boxes can be rack-mounted with mixer or strategically positioned throughout room to minimize microphone cable runs.

**RACK KIT**
Allows microphone distribution boxes to be mounted in a standard equipment rack.

**SPECIFICATIONS**

**AUDIO PERFORMANCE**
Conditions: Unless otherwise specified, all measurements are performed with a 22 Hz to 15 kHz BW limit (no weighting)
- Audio Mixer
  - AEC tail time: 128 ms
  - Adaptive noise cancellation: (-6 to -18) dB
  - Gating: Adaptive ambient, 1st mic priority, look-ahead gating, NOM attenuation
  - Audio bandwidth: 16 kHz with videoconferencing or other full-band networks

**Microphone Distribution Box**
- Connection: Female XLR
- Maximum Distance from Audio Mixer to Last Mic Box: 60 ft.
- Maximum Level: +17 dBu
- Frequency Response: 20 Hz to 14 kHz
- THD+N: < 0.01% (+6 dBu input @ 1 kHz)
- Phantom Power: 24 V selectable
- Impedance: 10 kOhm

**Line Output**
- Connection: Unbalanced RCA
- Nominal Level: -10 dBu, adjustable from -14 dB to +18 dB
- Maximum Level: +9 dBu
- Frequency Response: 40 Hz – 15 kHz (+/-1 dB)
- Dynamic Range: > 80 dB
- THD+N: < 0.02% (+6 dBu input @ 1 kHz)

**Playback/Record Output**
- Connection: Unbalanced RCA
- Nominal Level: -10 dBu, adjustable from -14 dB to +18 dB
- Maximum Level: +9 dBu
- Frequency Response: 40 Hz – 15 kHz (+/-1 dB)
- Dynamic Range: > 80 dB
- THD+N: < 0.02% (+6 dBu input @ 1 kHz)

**Amplifier Output**
- Connection: Left and right push terminals
- Power: 10 Watts into 8 Ohm load
- Impedance: 8 Ohm
- Frequency Response: 60 Hz – 18 kHz (+/-1 dB)
- Dynamic Range: > 80 dB
- THD+N: < 0.02% (+6 dBu line input @ 1 kHz)
- Output Level: 90 dB SPL output @ 1 meter

**TELEPHONE INTERFACE**
Conditions: All measurements taken with ALC disabled.
- Connection: RJ-11 (Set and Line jacks)
- Tail Time: 30 ms
- Frequency Response: 250 Hz to 3.3 kHz (+/-1 dB)
- THD+N: < 0.2% (+7 dBu line input @1 kHz)
- Dynamic Range: > 60 dB

**RS-232 Control Port**
- DB9 female
- Baud rate: 8 bits, 1 stop, no parity
- (default)/115,200
- 9,600/19,200/38,400/57,600 DIN, 9600 baud, no Flow Control

**10/100 Ethernet Control Port**
- RJ-45 with LED indicators for link, auto-sensing, 50-60 Hz

**Environmental**
- Operating Temp: 32-122º F (0-50º C)
- Weight
  - Mixer: 4.5 lb (2 kg)
  - Controller: 2.0 lb (9 kg)
  - Mic Box: 1.5 lb (7 kg)

**Optional Accessories**
Go to www.clearone.com to find out more regarding other conferencing products.
- Remote Antenna
- Microphones
- Roll-About Carts

**Part Numbers**
- 910-153-590 Converge 590 with wireless controller
- 910-153-560 Converge 560 with wireless controller
- 910-153-565 Converge 560 with wired controller
- 910-153-596 Converge 590 with wired controller
- 910-153-050 Converge Remote Antenna Accessory Kit

Call 1-801-974-3641 or visit www.clearone.com for international part numbers.

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**dimensions (w x d x h)**
- Mixer: 17” x 7.5” x 2”
- Controller: 10.5” x 4.5” x 2.75”
- Mic Box: 4.7” x 5.6” x 1.7”
- 11.9 cm x 14.3 cm x 4.4 cm

**convergence 560/590 data sheet**