

## RAV™ 600 and 900

### Complete Audio Conferencing Systems



#### KEY BENEFITS

##### Superior Audio Performance

- Sound quality exceeds any conferencing phone on the market
- ClearEffect™ loudspeaker technology provides high-fidelity audio to your conference.
- Provides great audio for group conferencing with PC-based web-conferencing and videoconferencing systems.

##### Ease of Use

- Centralizes operational functionality through wireless tabletop controller
- Uses familiar user interface that resembles a standard phone
- Control in a web-browser

##### Remote System Management

- Enhances remote management of product configuration, monitoring and control via LAN or WAN.

##### Reduces Total Cost of Ownership

- Ease of installation and operation provides lower cost and maintenance
- Includes access to product innovation through remote upgrade capabilities
- Maximizes customer and product support (2-year product warranty)

#### AN INSTALLED CONFERENCE SYSTEM AT A TABLETOP PRICE

RAV™ 600/900 audio conferencing system uniquely combines the sound quality of a professionally installed audio system with the simplicity of a conference phone. This complete, out-of-the-box system is an easy and affordable way to provide audio conferencing capabilities to small and medium conference rooms. The RAV system can also be fully integrated with rich-media devices, such as video and webconferencing systems, for enhanced audio performance. In addition to conferencing, it allows single input connection to CD, DVD players, VCRs, etc. for playback over the system's speakers.

With the RAV system's superior audio quality sound distribution, your organization will achieve increased levels of collaboration and productivity that you've never experienced with premium or standard conferencing phones. The RAV system enables your organization to make decisions more quickly, share ideas more easily and interact with remote meeting participants in a way that feels like everyone is gathered around the same meeting room table.

##### RAV 600 and RAV 900

- RAV Audio Mixer
- Wireless Controller
- RAV-Ware™ Software
- Two (RAV 600) or Three (RAV 900) Microphone Pods
- Quick Start Guide and User Manual
- Two Bose® Loudspeakers (Ceiling or Wall-Mount)



RAV 900 pictured

**ClearOne**  
You're Virtually There<sup>SM</sup>

# PRODUCT BRIEF

## PRODUCT FEATURES

**Audio Mixer:** The heart of the RAV 600/900 audio conferencing system is the Audio Mixer, which provides audio processing to ensure audio quality for natural communication. This unit can be rack- or shelf-mounted.

- **Gentner Audio Quality™:** Includes Gentner® Distributed Echo Cancellation® and Noise Cancellation.
- **AV Control System Integration:** Easily integrates with AMX/Crestron control systems.
- **Camera Control:** When used with videoconferencing systems, Voice Tracking Mode allows camera presets to be triggered by microphone activation.

**Tabletop Controller:** The wireless controller provides an intuitive interface that emulates a telephone keypad.

**Microphone Pods:** Each microphone pod features three voice-activated microphone elements for 360-degree pickup of speech audio and reduced background room noise and reverberation.

**Bose® Loudspeakers:** Either a ceiling or a wall-mount loudspeaker option.

## RAV-WARE SOFTWARE

On those rare occasions when you need to customize the audio settings, RAV-Ware can configure a system via the built-in USB or Ethernet connection. RAV-Ware application software provides a drag-and-drop interface to customize the audio in your RAV audio conferencing system.

**Device Toolbox:** Select pre-configured audio settings for the most common auxiliary devices.

**System Check:** Simply run the System Check utility to verify all components of your RAV system are functioning properly.

**Event Logging:** Select and track events such as passwords, dialing, reboots and errors. The Event Log can be accessed through the network or the web interface.

**Network Find:** Easily connect to other RAV units on your network by entering the unique network name or IP address.

**Firmware Upgrades:** Take advantage of updates and enhancements to your RAV system through remote firmware upgrades.

## AUDIO MIXER UNIT — BACK PANEL



## PRODUCT 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 – 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 Pod

Coverage: 360 degrees  
Connection: RJ-45 with Cat. 5, Link In/Out Ports  
Maximum Distance from Base Mixer: 50' (RAV 900), 75' (RAV 600)  
Frequency Response: 60 Hz–14 kHz (±1 dB)  
THD+N: <0.08% (–45 dBu input @ 1 kHz)  
Sensitivity: –45 dBu  
Input Level: –6 dBu for 1 kHz 94 dB SPL microphone input  
Dynamic Range: > 65 dB

### Line Input

Connection: Unbalanced RCA  
Gain: –10 dBu nominal, adjustable from –14 dB to +18 dB  
Nominal Level: –10 dBu  
Maximum Level: +9 dBu  
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 Input

Connection: Unbalanced RCA  
Gain: –10 dBu nominal, adjustable from –14 dB to +18 dB  
Nominal Level: –10 dBu  
Maximum Level: +9 dBu  
Impedance: > 10 kOhm

### 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)

### Loudspeaker

Connection: Left and right push terminals  
Power: 10 Watts into 8 Ohm load  
Impedance: 8 Ohm  
Frequency Response: 60 Hz–15 kHz (±1 dB)  
Dynamic Range: > 80 dB  
THD+N: < 0.5% (+5 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  
9,600/19,200/38,400/57,600 (default)/115,200  
Baud rate: 8 bits, 1 stop, no parity  
Hardware flow control on (default)/off

### Communication I/O

10/100 Ethernet Control Port:  
RJ-45 with LED indicators for link, duplex and activity status.

### USB 1.1 Configuration Port

Slave port

### VISCA Camera Port

DIN, 9600 baud, no Flow Control

### Dimensions (WxDxH)

Mixer: 17" x 7.5" x 2"  
(43.2 cm x 19.1 cm x 5.1 cm)  
RF Controller: 10.5" x 4.5" x 2.75"  
(26.7 cm x 11.4 cm x 6.9 cm)  
Mic Pod Diameter: 7" (17.8 cm),  
Height: 1.5" (3.8 cm)

### Weight

Mixer: 4.5 lb (2 kg)  
RF Controller: 2.0 lb (.9 kg)  
Mic Pod: 1.1 lb (.5 kg)

### Environmental

Operating Temp: 32–122° F (0–50° C)

### Power Supply

Primary Voltage: 100 to 240 VAC  
Auto-Sensing, 50–60 Hz

### Optional Accessories

Go to [www.clearone.com](http://www.clearone.com) to find out more regarding other conferencing products:

- Remote Antenna
- Credenza
- A-D Converters
- Document Cameras
- Roll-About Carts

### Part Numbers

910-153-100 RAV 600 No Speakers  
910-153-101 RAV 600 Ceiling Speakers  
910-153-102 RAV 600 Wall-Mount Speakers  
910-153-300 RAV 900 No Speakers  
910-153-301 RAV 900 Ceiling Speakers  
910-153-302 RAV 900 Wall-Mount Speakers

Call 1-800-707-6694 for international part numbers.