



US-2002

User Station

The US-2002 Intercom User Station is designed for stationary use by personnel who may require selective access to two intercom channels. It can be rack mounted or used as a desktop station. For rack mounting, optional hardware is required. For desktop use, four rubber feet are supplied.

Features

Balanced Audio Transmission

Balanced audio transmission system for crisp clean audio even under the most challenging conditions.

Headset Operation for Noise Reduction and Privacy

Remote Mic Kill

Remote mic kill feature allows users to silence any open mic on the intercom channel.

Digi-Latch Technology

Separate Listen, Call, and Talk buttons with Digi-Latch technology gives users complete control of system communications while maintaining ease of operation.

Backlit Buttons

Backlit buttons with lettering on the button allow users to see which button to push even in darkened room environments.

1/8-Inch Rear Data Connector

Convenient 1/8-inch rear data connector allows the Master Station to be linked with one or more ES-4000A Expansion Stations for access of up to 22 intercom channels.

VOX Feature

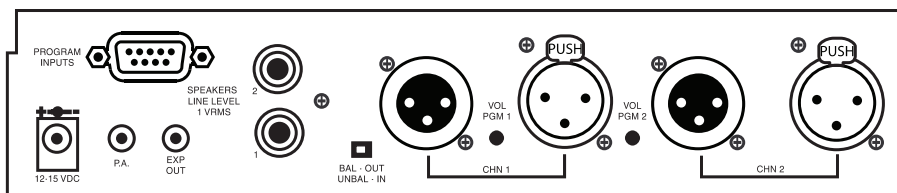
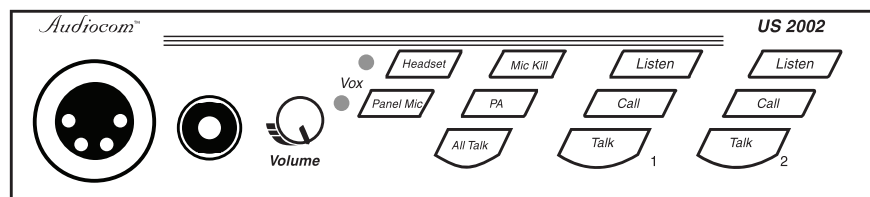
VOX (voice activated microphone) feature is on/off programmable via front panel with individual trim pots for headset and front panel microphones.

Rack Mountable

Rack mountable in a variety of modular configurations with one of several optional rack mount kits.

Clear-Com® Compatible

Line Drawing



US-2002 Specifications

General

Power Requirements:

Phantom Power: 24 VDC nominal (12 to 30 VDC), 65 to 150 mA

Local Power: 12 to 15 VDC, 65 to 150 mA

Dimensions: 1.75" (44.5 mm) high, 8.25" (209.5 mm) wide, 10.31" (261.9 mm) deep

Weight: approximately 2lb (0.9 kg)

Environmental Requirements:

Storage: -20°C to 80°C; 0% to 95% humidity, non-condensing

Operating: -15°C to 60°C; 0% to 95% humidity, non-condensing

Dynamic-Mic Headset

Microphone: 50 to 200 ohm, dynamic (balanced or unbalanced)

Headphones: 150 to 600 ohm, monaural

Connector Type: XLR-4M

Pin 1 Microphone low

Pin 2 Microphone high

Pin 3 Headphone high

Pin 4 Headphone low

Panel Microphone or Electret-mic Headset

Microphone: 5k ohm, electret (-57 dB)

Headphones: 150 to 600 ohm, monaural

Connector Type: IKP12 (MCP-90 series, stereo plug connector)

Program Input

Input Level: 100mV maximum

Voltage Gain: 25 ±3 dB

Output Level :1.0 Vrms nominal, 2.3 Vrms maximum

Input Impedance: 75k ohm

Common Mode Rejection: Greater than 50 dB

Connector Type: DB9F

Pin 1 Ground

Pin 2 Program 1 input low

Pin 3 Program 2 input low

Pin 4 NC

Pin 5 NC

Pin 6 Program 1 input high

Pin 7 Program 2 input high

Pin 8 NC

Pin 9 NC

Intercom Channels, Balanced Mode

(SW2 set to BAL position)

Output Level: 1 Vrms nominal

Input Impedance: 300 ohms

Bridging Impedance: greater than 10,000 ohms

Sidetone: -40 dB, 35 dB adjustable range

Call Signaling:

Send: 20 kHz ±100 Hz, 0.5 Vrms ±10%

Receive: 20 kHz ±800 Hz, 100 mVrms

Mic-Kill Frequency:

Send: 24 kHz ±300 Hz, 0.5 Vrms ±10%

Detect: 24 kHz ±800 Hz, 100 mVrms

Noise Contribution: less than -70 dB

Common Mode Rejection Ratio: greater than 50 dB

Connector Type: One XLR-3M and XLR-3F pair, wired in parallel, for each channel

Pin 1 Common

Pin 2 Intercom audio low and +24 VDC input

Pin 3 Intercom audio high and +24 VDC input

Intercom Channel, Unbalanced Mode

(SW2 set to UNBAL position)

Output Level: 1 Vrms ±10%

Input Impedance: 150 ohms

Bridging Impedance: greater than 10,000 ohms

Call Signaling:

Send: 11 ±3 VDC

Receive: 4 VDC minimum

Connector Type: One XLR-3M and XLR-3F pair, wired in parallel, for each channel

Pin 1 Common

Pin 2 +24 VDC input

Pin 3 Intercom audio high

PA Output

Output Level: 235 mVrms nominal

Connector Type: 1/8-inch Stereo Phone Jack

Tip: PA output high

Ring: Not used

Sleeve: Common

Speaker Output

Output Level: 0 dB nominal (1.0 Vrms)

Output Impedance: 1000 ohms nominal

Frequency Response: 200 Hz to 8 kHz +1/-3dB

Connector Type: RCA Phono Jack

Tip: Speaker output high

Sleeve: Common

Expansion Input /Output

Type: 2.0 mm stereo phone jack

Tip: Talk output

Ring: Listen input

Sleeve: Common

External Power

Type: 2.0 mm power jack

Internal pin: positive (+)

External shell: negative (-)

Headphone Amplifier

Voltage Gain: 30 ±3 dB

Maximum Output: 250 mW ±10% into 150 ohms, 65 mW±10% into 600 ohms

Frequency Response: 200 Hz to 8 kHz +1/-3db

Incoming Call Beep Tone: 2 kHz, at the headphones

Total Harmonic Distortion: Less than 0.2% at 200 mW

Sidetone: 18 ±2 dB, adjustable

Panel Microphone Amplifier

Voltage Gains:

Mic to CHN; 25±3 dB, before limiting

Mic to Headphone; adjustable, 45 dB ±10% maximum, into 150 ohms

Mic to PA; 15 ±3 dB, 235 mVrms ±10%

Frequency Response: 200 Hz to 8 kHz +1/-3dB

Total Harmonic Distortion: Less than 0.2% at CHN output

VOX Range: -75 to -30 dB, -60 dB factory set

Ordering Information

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