

# 9412 AMU AUDIO MANAGEMENT UNIT

BRIDGING THE GAP IN TELECOMMUNICATIONS



The 9412 Audio Management Unit is a versatile emergency services audio operator interface. A single interface manages:

- Footswitch
- Telephone (PABX line)
- Radio control systems such as the BISS Tech 950 Series or a stand alone mobile radio
- Auxiliary audio channel (turnout)
- Public Address system
- AM/FM radio audio (music)
- Television audio (music)
- Continuous loggers
- Rapid recall loggers

This sophisticated user interface is intuitive in operation and greatly adds to operator efficiency and comfort. Audio sources from both the mobile radio(s) and PABX are integrated into the system and are operator selectable. Muting and audio priority facilities are included. In quiet periods AM/FM radio or television can be selected. Continuous loggers record all audio during console activity. Rapid recall loggers operate in a similar manner except when temporarily disabled by the operator.

## General Features

- Automatic foreground / background switching of mobile radio and telephone audio
- Automatic connection of music to operators during idle periods
- Dual headset and common foot switch facilities with headset disconnection safety mode
- Supports continuous and rapid recall loggers, pips to telephone and operator privacy mode
- Audio compressors on telephone and microphone inputs
- Voice Operated Switches (VOXs) on telephone and radio inputs
- A built in loudspeaker supports mobile radio, logger and music audio.
- A 30dB, 10 segment audio level meter provides visual level indication.



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## Compatibility

The 9412 AMU supports standard 4W, E & M audio channels and 4W PABX extensions via a line isolation unit. The 9412 AMU is fully compatible with the BISS Tech 950 Radio Management System, which has recently received the prestigious Australian DesignMark for design excellence. It allows up to 14 radio consoles or handsets to control up to 6 radio channels (expandable to 30 channels). The 950 system features:

- Consoles and handsets incorporating 5 tone selective calling and ANI
- Radio channel selection
- Audio channel cross link selection
- DTMF controlled remote channel linking

## Related Products

- 619E 6 way 4 wire audio bridge with remote control access
- 900 Series AUSTEL approved line interfaces
- 970 Series Remote radio channel change units

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# S P E C I F I C A T I O N S

## Power Requirements

Supply Voltage: 11.5V to 15Vdc  
 Supply Current: 700mA max.  
 Power supply rejection ratio: >80dB

## Control Inputs (optocoupled)

Contact input: Active when closed  
 Voltage input: Bidirectional 30Vdc max.  
 Control Outputs: Voltage free contact  
 30Vdc 1A max.(resistive)

## Audio Inputs

Nom. input signal measured at audio input connections @1KHz.  
 Impedance: 600Ω  
 Channel Crosstalk: Better than -55dB  
 Telephone input: With max. gain, compression begins at -20dBm input.  
 Compression range 30dB, limited to 2.5Vp-p max.  
 Adj. range >30dB below maximum.  
 Adj. up to 25dB below foreground  
 With max. gain, compression begins at -56dBm input.  
 Compression range 30dB, limited to 2.5Vp-p max.  
 Adj. range 21dB below max.  
 Bias available (+5Vdc or +10Vdc)  
 Tested with Plantronics # HSO599-3S

Telephone background:  
 Headset mic. inputs:

Radio, Turnout & Logger inputs: Adj. input level -6dBm to +10dBm to provide nominal internal level.  
 Radio background: Adj. up to 25dB below foreground.  
 AM/FM & TV inputs: Adj. input level -20dBm to +10dBm to provide nominal internal level.

## Audio Outputs

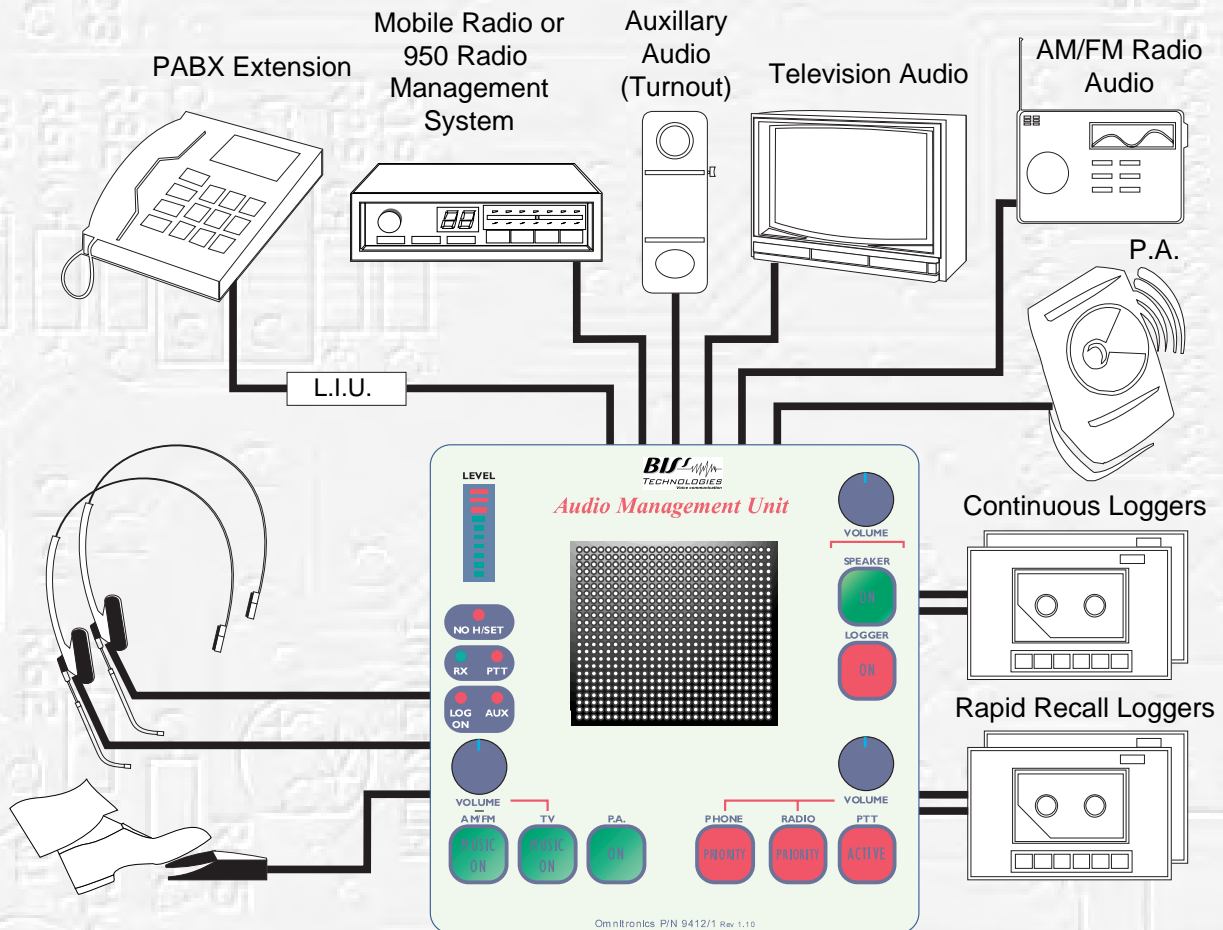
Nominal input test signal, 1Vp-p @ 1KHz.  
 Output distortion <1% for all non limited audio paths.  
 Impedance: 600Ω  
 Frequency response: 300 Hz to 3000 Hz (+/- 1.5dB ref 1000 Hz)  
 Telephone output: Adj. -53 to -23dBm into 600Ω  
 Radio & Turnout outputs: Adj. -25 to -4dBm into 600Ω  
 Sidetone output, adjustable: Mid range 0.7Vp-p, Adj. range relative to half scale -4.5 / +11 dB  
 P.A. output: Adj. -25dBm to -4dBm into 600Ω  
 Speaker output: Adj. 1.6mW to 4.5W into 8 ohms

## Physical

Dimensions (H x W x D): Audio 44mm x 19" x 255mm (1RU)  
 Console 150 x 150 x 85 mm  
 Weight: 5kg including packaging

## Environmental

Operating Temperature: 0 to 60 deg. C  
 Relative Humidity: 0 to 95% non condensing



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