# RTS
## *Audiocom*

## BP-1002 and BP-2002
### Beltpacks

The BP-1002 and BP-2002 are ideal beltpacks that keep users connected and offer mobility as well as hands free convenience. The power circuitry has been redesigned and reinforced to improve overall performance. For a completely portable intercom system, directly connect your belt pack to the back of an intercom Power Supply or Master Station.

Alternately, passive wall connector plates can be permanently installed at strategic locations, and the beltpacks can then be connected to these using cables. Both the BP-1002 and BP-2002 are Clear-Com compatible.

## Features

- The Talk button activates the headset and can operate in either Hands-Free-Talk or Push-to-Talk Mode.

- On the BP-2002 only. Allows the user to select which intercom channel is active. A indicator light shows the active channel.

- The sidetone control adjusts your own voice level heard in the headphone.

- The call function allows the user to send or receive signals to other user stations on the intercom channel. The user can receive call light signals as well as send signals easily.

- The BP-1002 and BP-2002 are Clear-Com Compatible

## Line Drawings

**BP-1002**
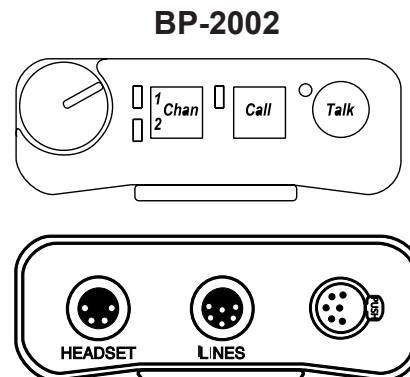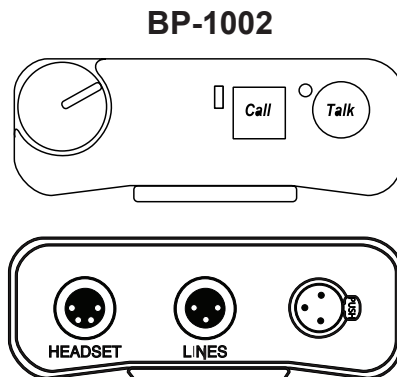
**BP-2002**

# Specifications

## General

Power Requirements:

Channel Supplied: .............. 24 VDC nominal, 40 to 100 mA

Local-Power:.................... (BP-2002 only) 24 VDC nominal (21to 30 VDC), 40 to 100 mA

Environmental Requirements:

Storage: ......................-20°C to 80°C; 0% to 95% humidity, noncondensing

Operating:......................0ºC to 50°C; 0% to 95% humidity, noncondensing

Dimensions:....................................... 5.0 in (127 mm) high, 3.5 in (88.9 mm) wide, 1.8 in (45.7 mm) deep

Weight: ....................................................... 13 oz (0.36 kg)

## Headset

1000 to 3000Ω electret microphone
150 to 600Ω headphones

## Balanced Intercom Channel

Output Level: ...............................................1Vrms nominal

Terminating Impedance: ...................................300Ω ±10%

Bridging Impedance:............................. greater than 10kΩ

Call Signalling:

Send: ........................................20kHz ±100Hz, >0.5Vrms

Receive: ...........................20kHz ±800Hz, 100mVrms min.

Mic-Off Frequency:

Detect: .............................24kHz ±800Hz, 100mVrms min.

Noise Contribution: .................less than -60dBu on the line

Connector Types:

BP-1002: ........................... One XLR-3M and XLR-3F pair, wired in parallel, for each channel (permits "loop-thru" connection)

BP-2002: ........................... One XLR-6M and XLR-6F pair, wired in parallel, for each channell

## XLR-3 Balanced Configuration Pinouts

Pin 1: ..................................................................Common

Pin 2: .....................Intercom audio low and +24VDC input

Pin 3: ................... Intercom audio high and +24VDC input

## XLR-6 Balanced Configuration Pinouts

Pin 1: ................................................................. Common

Pin 2: .................Local power (21 to 30VDC, 40 to 100mA)

Pin 3: ..............Intercom channel 1 audio low and +24VDC phantom power

Pin 4: ............Intercom channel 1 audio high and +24VDC phantom power

Pin 5: .............Intercom channel 2 audio low and +24VDC phantom power

Pin 6: ............Intercom channel 2 audio high and +24VDC phantom power

## Unbalanced Intercom Channel

Output Level: ...........................................775mVrms ±10%

Terminating Impedance: .................................. 200Ω ±10%

Bridging Impedance: ............................greater than 10kΩs

Call Signalling:

Send: ............................................................12 ±3 VDC

Receive: .................................................. 4 VDC minimum

Connector Type: ... Uses same connectors as for balanced mode, above, but with pinouts modified as follows:

## XLR-3 Unbalanced Configuration Pinout

Pin 1: .......................................... Common Audio & Power

Pin 2: ...........................................................+30VDC input

Pin 3: .......................................................Intercom audio

## XLR-6 Unbalanced Confi guration Pinouts

Pin 1: .......................................... Common Audio & Power

Pin 2: .................Local power (21 to 30VDC, 40 to 100mA)

Pin 3: ........................................Channel 1 +30VDC input

Pin 4: .....................Channel 1 Intercom audio and DC call

Pin 5: ........................................Channel 2 +30VDC input

Pin 6: .....................Channel 2 Intercom audio and DC call

## Headphone Amplifier

Maximum Output: .........3.5 ±10% Vrms into 150Ω headset

Frequency Response: ....................... 200Hz to 8kHz ±2dB

Audible Alert: ................................... 1kHz, at the headset

Total Harmonic Distortion: ......... Less than 1% at less than 3.25 Vrms into 150Ω headset

Sidetone: ........................17dB minimum range, adjustable

# Order Information

BP-1002 • 1 channel select portable metal belt-pack.
BP-2002 • 2 channel select portable metal belt-pack.

For ordering information, contact your regional sales representative at:
http://rtsintercoms.com/us/intercom/contact

The specification information is preliminary and is subject to change without notification.
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