

Technical Data Sheet

TECPRO DUAL CIRCUIT INTERCOM OUTSTATIONS

27-114 Tecpro BP114 Dual Circuit Beltpack (monaural) XLR 3 pin)

27-116 Tecpro BP116 Dual Circuit Beltpack (binaural) XLR - 3 pin)

OPERATING INSTRUCTIONS:

- 1 Plug a headset into the XLR type socket (4 pin - 114 : 5 pin 116) on the back of the unit. The headset wiring standard is detailed later.
- 2 Plug the extension cable from each circuit into the respective 3 pin XLR type socket on the back of the unit. If it is required to use as a single circuit unit, the circuit must be connected to circuit 'A' (see 6 below).
- 3 The BP114/116 allows the user to communicate with 2 independent intercom circuits. Identical controls are provided for each circuit.
- 4 The thumb operated 'Listen Level' () controls the loudness of your headset earphone(s), allowing a suitable receive level to be set.
In the 114, the two 'Listen Level' signals are mixed in the beltpack unit, allowing 'A', 'B' or both to be monitored.
In the 116, the two 'Listen Level' signals are supplied to separate earpieces.
Note: "Listen Level" controls have no effect on the microphone level.
- 5 The microphone amplifier gain is factory adjusted to suit most types of headset microphones . It contains a limiter/compressor which compensates for differences in microphone and talker output levels. Should your chosen headset have too little output, please contact your dealer.
- 6 **Use as single circuit unit.**
If it is necessary to use a BP114/116 as a single circuit unit (replacement for a BP111 for example) it is necessary to connect the single circuit to circuit 'A', as the internal circuitry uses the power supply for circuit 'A' only. For continued use, to avoid misleading settings of the controls, it is recommended that 'Listen Level' for circuit 'B' should be turned to minimum and taped over to avoid disturbance. In this manner the BP114 will

operate in a similar manner to a BP111 unit, as also the BP116 can with the exception that circuit 'A' will be only heard in one ear.

Note: If used on single circuit systems, the second (unused) circuit connected needs to be terminated. (An LI1906 will provide this termination, stock code: 27-906).

- 7 The flash (SIGNAL) button flashes a light in all outstations connected to the selected circuit. It can be used to attract attention in the event that a user has removed their headset.
- 8 The screwdriver preset controls the level of your own voice in your headset (Sidetone).
Tecpro beltpacks use the symbol () to indicate this.
The setting is factory set for the majority of users. It can be altered for personal preference.
- 9 Due to Clearcom's lower bridging impedance, a slight reduction in sidetone stability is incurred when a Clearcom outstation is used in a Tecpro system. With this exception the two different systems are compatible.

10 Connection details

Headset BP114, 4 pin male XLR type.

- 1-Mic Ground (screen)
- 2-Mic Line (centre)
- 3-Ear Ground
- 4-Ear Line

Headset BP116

5 pin male XLR type

- 1-Mic Ground (screen)
- 2-Mic Line (centre)
- 3-Ear Ground (ear common)
- 4-Ear "A"
- 5-Ear "B"

Circuit connections;

3 pin XLR female, one on each circuit (for single circuit see 6 above)

1-Ground

2-+24V Line

3-Ring (Audio) "A"

Note: Viewing BP114/116 from XLR end with the belt clip on top circuit 'A' is the right hand XLR.

TECHNICAL SPECIFICATION

Headset microphone impedance:	200Ω preferred, 300-1kΩ acceptable.
Headset earphone impedance:	150-600Ω preferred, 80-4kΩ acceptable.
Supply Voltage:	24VDC nominal; 12-30V DC acceptable.
Current Consumption:	10mA average with speech, 20mA with one SIGNAL LED activated.
Input limiter/compressor:	Frequency response tailored for comfortable listening combined with high intelligibility.
Lamp type:	Super bright LED.
Line bridging impedance:	>100kΩ 300Hz-3kHz. >10kΩ 20Hz-10kHz.
Sidetone Cancellation:	0dB to over 40dB, adjustable for each circuit.

Controls (2 identical sets)

Talk:	Push on-off, self indicating switch.
Listen Level:	Thumb operated potentiometer.
Flash:	Non-latching push switch with adjacent lamp.
Sidetone:	Screwdriver-operated preset. All controls are recessed to prevent accidental damage.
Size:	110mm×93mm×50mm
Weight:	470g nett, 520g shipping.