



## BS 17 SINGLE CHANNEL BELTPACK



## QUICK GUIDE

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**This product is designed and manufactured by:**

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## 1.0 GENERAL DESCRIPTION

The BS 17 beltpack is a portable single channel user station housed in a strong ABS/PC case with a nylon belt clip.

On the top panel are a Volume (listen level) control, a TALK and a CALL button with LED indicators. On the side panel are trimmers for side tone, buzzer volume and mic gain. A momentary push of the CALL button makes the red LED flash, whilst holding the button for two seconds activates the Call sound signal.

The volume of the sound signal (buzzer) is adjustable

Special attention has been paid to the intelligibility of speech. By applying low noise/high speed op-amps, a speech presence filter and a specially developed amplifier, communication is very comfortable even in environments with a very high background noise level.

## 2.0 UNPACKING

After unpacking the unit please inspect for any physical damage to the unit, and retain the shipping carton and relevant packing materials for use should the unit need returning.

If any damage has occurred, please notify your dealer immediately so that a written claim can be initiated. Please also refer to the warranty section of this quick guide.

## 3.0 INSTALLATION

To connect the BS 17 to the intercom system, use professional microphone cable with 2 wires and 1 shield. The for the BS 17 necessary DC voltages are derived from the intercom master station or power supply via the interconnecting cables.

The BS 17 is fully protected against mis-wiring (reverse power) or short-circuit in the interconnecting cables.

## 4.0 WARRANTY

This unit is warranted by ASL to the original end-user purchaser against defects in workmanship and materials in its manufacture for a period of one year from date of shipment to the end-user. Faults arising from unauthorized modifications, misuse or accidents are not covered by this warranty.

When the unit is faulty it should be sent, in it's original packing, to the supplier or your local ASL dealer, with shipping prepaid. A note must be included stating the faults found and a copy of the original suppliers invoice.

## 5.0 TOP PANEL CONTROLS



### 1 VOLUME control knob

To adjust the listen level for the headset.

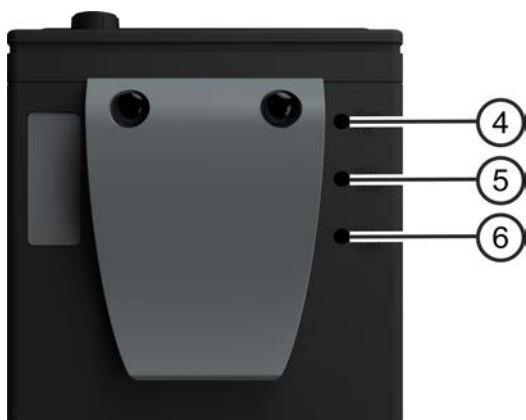
### 2 TALK button

By pushing this button the signal of the headset microphone is sent to the intercom party line. When the button is switched on, its large green LED is lit.

### 3 CALL button

To activate the call system. By a momentary push a call signal is sent to all stations connected to the intercom channel and the call LEDs start flashing. Push and hold the CALL button for 2 seconds activates the call buzzer. After the CALL button is released the LEDs continue to flash for a further 2 seconds.

## 6.0 SIDE PANEL CONTROLS



### 4 BUZZER VOLUME trimmer

To adjust volume of the internal buzzer.

### 6 MIC GAIN trimmer

To increase the mic gain, turn trimmer clockwise.

To decrease the mic gain, turn trimmer counterclockwise

### 5 SIDETONE trimmer

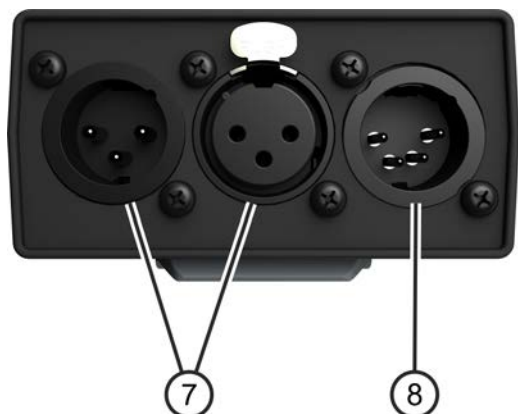
To adjust the level of your voice as you hear it in your headset.

Side tone adjustment procedure :

- set trimmer in start position : fully clockwise
- switch off the microphones of all connected (speaker) stations
- switch on the microphone of the BS 17
- turn up the volume
- speak into the headset mic and adjust the listen level by turning the trimmer.

The trimmer operating area is between fully clockwise and minimum level. Adjusting the side tone does not affect the level of your voice as it is heard by other stations.

## 7.0 BOTTOM PANEL CONNECTORS



### 7 LINE connectors (XLR-3)

To connect the BS 17 to the intercom party line. The female XLR is the intercom line input and the male XLR is for daisy chaining the intercom party line to other user stations ('daisy chaining').

### 8 HEADSET connector (XLR-4)

To connect a headset to the BS 17. The headset can(s) must have a can impedance of minimum 200  $\Omega$ . The headset mic may be of the dynamic or electret type. I

## 8.0 TECHNICAL SPECIFICATIONS

### System

dynamic range: 80 dB (1 kHz, THD<1%)  
frequency response: 200 Hz – 15 kHz (-3 dB)  
call signal (send): 2.8 mA  
call signal threshold (receive): 2.4 V DC  
operating voltage: 24 - 32 V DC  
line impedance: 350  $\Omega$  (1kHz), 2.2 k $\Omega$  (DC)  
audio level: nom. -18 dBu, max. 0 dBu

### Mic. Pre-amp

gain: 40 - 60 dB  
presence filter: +6 dB at 5 kHz  
voltage to electret mic: 9 V DC

### Headphones Driver Amp

max. output level: 11.6 Vrms @ 200  $\Omega$   
max. output power: 0.7 Wrms @ 200  $\Omega$

### Side Tone

Rejection: 0 - 30dB adjustable

### Buzzer

max. SPL: 85 dBA at 0.1m

### Power Consumption BS 17

current (at 30 V DC) :  
18 mA quiescent / 35 mA signaling  
80 mA at max. output + signaling

### BS 17 Dimensions & Weight

Width: 78 mm / Height: 46 mm  
Depth: 86 mm / Weight: 145 grams

*0dBu defined as 775 mV into open circuit.  
ASL reserves the right to alter specifications*

without prior notice.

**9.0 BLOCK DIAGRAM & SYSTEM CONFIGURATION**

