



# Ezicom E101

Communications Belt Pack



# USER GUIDE

# COMPLIANCE

This product is approved for use in Australia/New Zealand and conforms to the following standards:

Standards
IEC55103-1 (Emission)
IEC55103-2 (Immunity)
IEC60065 (Safety)

To ensure continued compliance with EMC Directive 89/336 and the Australian Radio-communications Act 1992, use only high quality data cables with continuous shield, and connectors with conductive back shells.

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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

## DISCLAIMER

Information contained in this manual is subject to change without notice and does not represent a commitment on the part of the vendor. JANDS Pty Ltd shall not be liable for any loss or damage whatsoever arising from the use of information or any error contained in this manual.

It is recommended that all service and repairs on this product be carried out by JANDS Pty Ltd or its authorised service agents.

JANDS products must only be used for the purpose they were intended by the manufacturer and in conjunction with this operating manual.

JANDS Pty Ltd cannot accept any liability whatsoever for any loss or damage caused by service, maintenance or repair by unauthorised personnel, or by use other than that intended by the manufacturer.

Designed in Australia

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# SAFETY PRECAUTIONS

The following information is for your Personal Safety. Please read carefully.

	<b>DO NOT</b> modify the E101.
	<b>DO NOT</b> connect the E101 with non-approved headsets or Control Stations.
	<b>DO NOT</b> use the E101 in the rain or in damp situations.
	<b>DO NOT</b> use the E101 at high sound levels for long periods of time.
	<b>TURN DOWN</b> the volume before plugging the headset in or placing the headset over your ears
	<b>DO NOT</b> operate heavy machinery while wearing the headset.

## 1 INTRODUCTION

The Jands Ezicom is a closed circuit headset intercom system which provides clear two-way communications even in high noise environments. A basic Ezicom system consists of one E401 master station connected to a number of remote E101 belt packs.

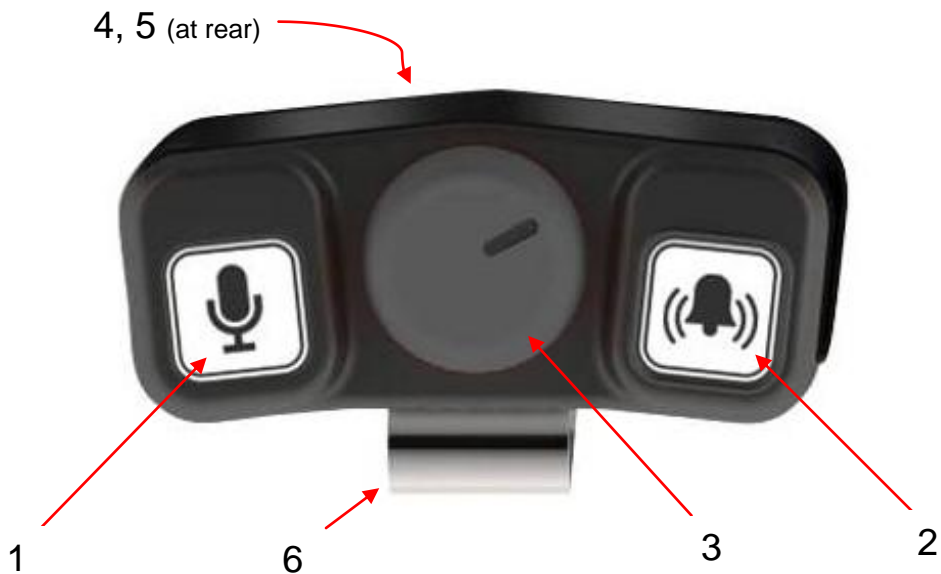
Ezicom components are interconnected with standard two-conductor shielded microphone cable fitted with three-pin XLR style connectors. One wire in the cable carries DC power from the master station to the remote belt packs; the other wire carries audio signals and superimposed “call” signals for visual signalling. The cable shield acts as the common ground-return.

The Ezicom cable transmission system is fully compatible with industry-standard headset intercom systems, allowing master stations and belt packs to be freely interchanged with other brand components without degrading performance.

### 1.1 Features

- High durability extruded aluminium case with custom moulded end caps;
- Bridge-mode amplifier for high output power;
- Large backlit buttons are easily identified in dark or low light situations;
- Remote Mic disable compatible.

## 2 EQUIPMENT DESCRIPTION



### 1. Microphone Button

Press this button to activate and deactivate the local headset microphone. This button glows green when the microphone is active.

### 2. Call Button

Press to signal other people on the system that may not be wearing their headsets. This button also flashes red when another user on the system presses their call button.

### 3. Volume Control

Adjust this control to set the level of the sound in the local headset.

### 4. Link Connectors

The 3 pin connectors are used to link this E101 to other equipment in the communications system.

### 5. Headset Connector

The 4 pin connector is where the headset is plugged in.

### 6. Belt Clip

Use the clip provided to secure the E101 to your person.

### **3 CONNECTIONS**

The Ezicom and compatible communications systems use 3 pin shielded microphone cables for all interconnecting links. Only one power source (usually a Master) should be used in a system.

Ensure all plugs are firmly seated in their sockets with the latches engaged. If possible make all connections before switching the power to the master station on - making connections while the power is on may disrupt other users and/or create clicks, pops, buzz, or other extraneous sounds.

### **4 OPERATION**

Once the system has been plugged in and switched on, both the Call and Microphone switches will glow blue indicating power is available. Turn the volume control to minimum (fully anticlockwise) before putting the headset on.

Slowly increase volume by turning the control clockwise. If there is signal present, for example there is program signal or a conversation is taking place, adjust the control until a comfortable level is achieved. If there is no signal present, turn the volume control back down, press the microphone switch to turn the headset mic on, then speak normally as the volume level is increased until a comfortable level is achieved. Turn off the microphone.

The volume level may require adjustment over time as more users come on line or the ambient noise level changes. Excessive headphone level should be avoided.

The Ezicom system is a party line system, which means all users in the system can hear the input from all open mics. For this reason:

- Leave the microphone switched off unless required.
- Ensure the microphone is turned off when the headset is taken off or the E101 is unplugged from the system.

Press the call switch to attract the attention of other users in the system who may not have their headphones on.

### **5 DISCONNECTING THE UNIT**

Turn off the microphone before disconnecting the E101. If possible switch power off to the system master station before making any disconnections.

Firmly press the release buttons to remove plugs from sockets.

## 6 FAULT FINDING TABLE

SYMPTOM	CAUSE	REMEDY
E101 totally dead eg switches do not illuminate, no sound in the headsets, and no response to button presses	System power off	Check Master power switch
	Mains power failure, power turned off at wall socket or disconnected	Check connections of Master
	Disconnection/not plugged in	Check connections between Master and belt-pack
	Faulty cable or other equipment in the system	Disconnect stations from master until the system works
	Faulty Master	Repair/replace
	Faulty E101	Repair/replace
E101 mic keeps switching off	Faulty cable or Master	Repair/replace
	Operator at Master pressing "Remote mic disable" switch	Liaise with operator of Master
No sound in headset	Volume turned down	Turn up volume
	No one talking	Nothing to fix here
	Faulty headset	Swap with another set
	Faulty cable	Repair/replace
Distorted sound	Volume too high	Turn volume down
	Faulty headset	Replace headset. Avoid single-ear headsets
	Ambient noise level too high	<ul style="list-style-type: none"> <li>• Turn unused mics off</li> <li>• Relocate operator position</li> </ul>
	Users talking too loudly	Liaise with other users

**Table 7.1 – Fault Finding Table**

## 7 CLEANING AND MAINTENANCE

To keep the E101 clean use a mild detergent and water with a soft cloth or paper towel, taking care to avoid water entering the units.

There are no user-serviceable parts inside.

## 8 TECHNICAL DATA AND SPECIFICATIONS

### 8.1 Mechanical

PARAMETER	VALUE
Dimensions	200mm (W) x 110mm (H) x 55mm (D)
Material	Aluminium + ABS poly.
Weight	330g

**Table 8.1 – Mechanical Specifications**

### 8.2 Electrical

PARAMETER	VALUE
Supply	24-32VDC, 100mA max
Line Signal Level	1mA/V
Microphone type	Dynamic
Headphone Impedance	32-400 ohms
Headphone Output Power	1.0W/32ohms, 650mW/200ohms
Compatibility	Clearcom RS series

**Table 8.2 – Electrical Specifications**

PIN	FUNCTION
1	Shield/Ground
2	Power
3	Audio/Call

**Table 8.3 – Link Connector**

PIN	FUNCTION
1	Mic Cold/Shield
2	Mic Hot
3	Phones -
4	Phones +

**Table 8.4 – Headset Connector**