



Univox[®] IRR-1

Infrared Receiver

User Guide



Part no 650301

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Introduction

Thank you for choosing a Univox® product. We hope you will be satisfied!

Univox® IRR-1 receiver is a wireless 2-channel, stereo infrared pendant receiver designed for professional applications. Equipped with multiple receiving diodes for increased sensitivity, the receiver works with transmitters operating on 2.3/2.8 MHz bandwidth.

Powered by a rechargeable Lithium Polymer battery, this lightweight receiver is to be worn around the neck, pendant-style (with supplied lanyard) or clipped on a pocket. The unit is easy to operate – select the channel frequency and adjust the volume with the intuitive slide volume control.

Univox® IRR-1 receiver can be used with Univox NL-90 neck induction loop to supplement personal hearing aids with a telecoil /T-switch setting, as well as with EM-101 single-sided earphone or EM-201 headphones for non-hearing aid users.

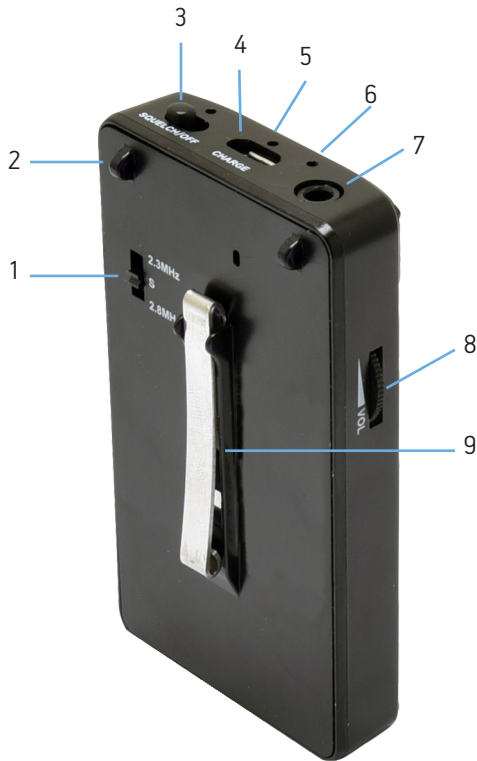
Please read this user guide carefully before using this product.

Included in package

- IRR-1 receiver
- Micro-USB cable
- Lanyard



Features Overview



- 1. Chanel Selection Switch
- 2. Lanyard clip
- 3. Squelch On/Off
- 4. Micro-USB charging port
- 5. Charging LED
- 6. Power On/Off LED
- 7. 3.5mm Output jack
- 8. Volume Control
- 9. Belt Clip

Details

1. **Chanel Selection Switch** – The receiver operates on 2.3MHz and/or 2.8MHz frequency. Select between 2.3MHz and 2.8MHz for mono- or “S” for both 2.3/2.8 MHz stereo operation.
2. **Lanyard Clip** – Attach the neck lanyard to wear the unit around your neck - recommended for best performance.
3. **Squelch – On/Off** – Slide the switch to activate/deactivate squelch function. When activated, the receiver audio output will be muted whenever the signal from the transmitter/radiator is turned off or the level is too weak to be received.
4. **Micro-USB charging port** – Connect a Micro-USB cable to charge the internal battery.
5. **Charging LED** – Indicates red during battery charging. Switches off automatically when the battery is fully charged.
6. **Power ON/OFF LED** – Indicates green when the receiver is On. The receiver’s “On/Off” switch is located internally. The unit is automatically turned on when 3.5mm plug is inserted into the output jack and switched off once it is removed.
7. **3.5mm Output jack** – Connect Univox NL-90 neck induction loop to supplement personal hearing aids with a telecoil or T-switch setting, or EM-101 single-sided earphone or EM-201 headphones.
8. **Volume Control** – Adjust the listening level by rotating the volume thumb wheel.
9. **Belt Clip** – Secure the unit on your pocket or clothes.

Operating Instructions

1. Insert Earphone or Neck Loop 3.5mm plug into the receiver's headphone output jack.
2. A green LED indicates once the plug has been connected properly and the unit is switched ON.
3. Place the receiver around the neck at chest height (pendant style) by using the lanyard, or attach it to a pocket using the clip on the back of the unit, with the front facing away from the body.

Note: Keep the receiver in the line of sight of the transmitter/emitter and do not place it in a pocket, as this will interrupt the reception and the receiver will not work properly.

4. Select a channel by sliding the Channel selection switch. Choose between 2.3MHz or 2.8MHz for Mono operation or "S" for dual-channel, 2.3/2.8MHz Stereo operation. For most applications and especially when using the Neck Loop, Stereo mode setting is recommended.
Make sure that receiver and transmitter are set to the same channel frequency.
5. Adjust the volume to a comfortable listening level by rotating the Volume knob.
6. Disconnect the earphones/neck loop when not in use to avoid unnecessary drain on the battery and prolong the battery life.

Troubleshooting

The receiver has no power

- Make sure the receiver is fully charged. Verify that the 3.5mm plug is inserted properly into the headphone jack and the ON LED is illuminated.
Note: IRR-1 receiver is equipped with a rechargeable, non-removable Li-Polymer battery. In case of battery failure do not attempt to replace or repair it. Please contact your local distributor for further instructions.

No audio or poor audio quality (distortion)

- Check the volume control setting. Make sure the receiver is kept in the line of sight and range of the transmitter/emitter and that the 3.5mm plug is properly inserted into the headphone jack.
- Check the transmitter operation and make sure that the transmitter and receiver are operating at the same channel/frequency. If Neck Loop is connected verify that the Stereo channel transmission is selected.
- Check the Squelch setting – if enabled, the audio output will be muted whenever the signal from the transmitter/emitter is off or the level is too low.

Service and warranty

Product is covered by 2 year warranty.

Under normal circumstances no special maintenance is required. In case of failure, if the product should not work properly after the troubleshooting has been performed, please contact your local distributor for further instructions.

The product warranty doesn't cover failure caused by tampering, carelessness, improper handling or maintenance.

Refer all servicing to qualified service personnel only. If the product is sent to Bo Edin AB, please enclose a filled Service Form, www.univox.eu/support.

Safety



Do not attempt to replace, recharge or repair damaged or defective battery as there may be a risk for heat, fire or short circuit development, if incorrectly replaced or connected.

Bo Edin AB shall not be held responsible or liable for interference to radio or TV equipment, and/or to any direct, incidental or consequential damages or losses to any person or entity, if the equipment has been installed by unqualified personnel and/or if installation instructions stated in the product User Guide have not been strictly followed.

Environment



To prevent possible harm to the environment and human health, please dispose the product responsibly by following statutory disposal regulations.

Technical data

| | |
|----------------------------------|---|
| IRR-1 Infrared Receiver | Part no 650301 |
| Receiver style | Body pack |
| Modulation | FM, 1kHz \pm 75kHz |
| IR Light Wavelength | 850nm |
| Carrier Frequency | 2.3MHz, 2.8MHz or stereo: 2.3/2.8MHz (Left/Right) |
| Audio Frequency response | XLR Input: 160 Hz-13 kHz (\pm 3 dB) RCA Input: 20 Hz-13 kHz (\pm 3 dB) |
| Total Harmonic Distortion | < 1% |
| Signal-to-noise Ratio | < 55dB |
| Battery | 3.7V Lithium Polymer 500mAh |
| Operation time | Approx. 8 hours |
| Charging time | <4 hours |
| Power Connection | USB (micro-USB to USB) |
| Indicators | Green LED: power on Red LED: charging |
| Output | 3.5mm |
| Weight | 58g incl battery |
| Size | (W) 45 x (D) 12 x (H) 82mm |

Accessories

| Part No | Description |
|----------------|---|
| 283101 | NL-90 Neck loop, 3.5mm plug, black, cable 55cm |
| 230903 | EM-201 Headphones, 3.5mm stereo, cable 1.2m |
| 230904 | Headphone pad, spare part for EM-201 |
| 581407 | EM-101 Earphone, on-ear, 3.5mm stereo, cable 90cm |

Product data sheet/brochure can be downloaded from www.univox.eu.
Additional technical information can be ordered from support@edin.se.



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