



- Interchangeable disposable or rechargeable batteries
- 500+ hours operating life
- Battery status check LED
- Automatic de-activation in the absence of transmissions
- Complies with IEC 764

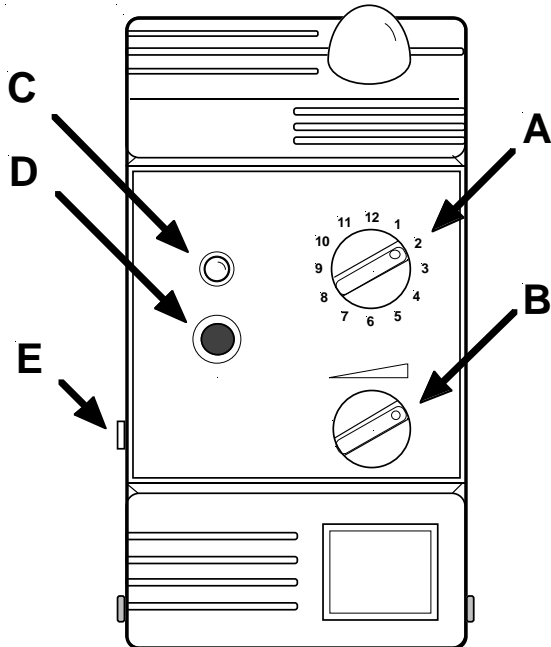
The infra-red receiver is designed for use in narrow band transmission systems complying with IEC 764 standards. It is manufactured from impact resistant plastic materials with a pocket clip and lanyard, and it is powered by two AA size interchangeable dry cell or rechargeable batteries. The receiver is available with 6, 9, or 12 channels, and with either type of batteries :-

No. of channels	Dry cells	NiCad
6	IRX-6	IRX-6R
9	IRX-9	IRX-9R
12	IRX-12	IRX-12R

The receiver has a very low current consumption, and the operating life with long life dry cells is up to 500 hours which is typically over one year for most users. For continuous daily use NiCad rechargeable batteries provide an operating cycle of 85-100 hours, but recharging racks are necessary. The infrared system is based on multiplexed FM signals and is compatible with other similar narrow band systems. The receiver uses the superhet principle with low consumption integrated circuits, block IF filter, and ceramic resonators for accurate tuning. The receiver has an ON switch with a battery charge status indicator. It is automatically turned off when the transmissions cease. There is a rotary channel selector knob (0-11 or 1-12) and a volume control with a 3.5mm headset socket.

## Controls

Channel selection and volume control is by rotary knobs. The channel annotation on standard versions is 1-12, but 0-11 is available on request. There is a push button ON switch, but the receiver automatically switches off after about 30 secs. in the absence of infra-red transmissions or on removing the headset from the socket.



- A CHANNEL SELECTOR
- B VOLUME CONTROL
- C BATTERY CHECK INDICATOR
- D ON SWITCH
- E HEADSET SOCKET

## Battery Status

The battery status LED is automatically illuminated when the "on" switch is pressed, indicating that the receiver is operational.

Batteries should be replaced (or recharged in the case of NiCad batteries) when the indicator fails to illuminate.

## Technical Data

Number of channels	6, 9, or 12.
Channel spacing	40kHz.
Carrier frequencies	95kHz - 535kHz (excl. 455 kHz.)
Modulation	FM.
Nominal deviation	±6kHz.
Peak deviation	±8kHz.
De-emphasis	100µsec.
Frequency response	50Hz-8kHz (-3dB).
Distortion at 1 kHz	less than 2.5%.
Signal/noise ratio	better than 55dB(A wtg.)
Channel separation	better than 55dBA
Sensitivity (S/N>40dB)	better than 5mW/m 2 IR.
Matching headset	70-2000 ohms. impedance
Battery size	2 x AA size (1.5 volts).
Battery operating life	disposable - 500+ hours rechargeable - 100+ hours.
Dimensions	130 x 70 x 23 mm.
Weight	140 g

## Architects and Engineers specification

The infra-red receiver shall be powered by interchangeable disposable dry cell or rechargeable NiCad batteries with a minimum operating life of 500+ or 100+ hours respectively. It shall operate on FM principles in accordance with IEC 764 with 6, 9, or 12 channels in the range 95kHz to 535 kHz (excluding 455 kHz) with 40 kHz channel spacing. The receiver shall have a push button ON switch which also activates an automatic battery charge status indicator, and have automatic de-activation in the absence of infra-red transmissions. The audio frequency response shall be at least 50Hz-8kHz (-3dB), with S/N better than 55dB, channel separation better than 55dBA, and distortion at 1kHz less than 2.5%. The dimensions shall not exceed 130 x 70 x 23mm, and the weight (excluding batteries shall not be greater than 140g.

We reserve the right to vary the specification without notice in the interest of product improvement

