

INFRACOM®

IR Radiator IRad for band II and IV



Description

The radiator IRad belongs to the latest generation of infrared power radiators of the INFRACOM wireless audio distribution system.

With the IR-transmitter up to 32 channels in FM quality can be transmitted simultaneously to the radiator and emitted in a frequency range of 40 kHz to 4 MHz. This frequency range works in band II and band IV according the IR transmission standards of the conference technology (IEC61603-3 and IEC61603-7).

The metal swivel bracket can be mounted on a wall or ceiling mounting bracket or a tripod. The mounting thread is of 3/8".

The high-power radiator requires no cooling fan; heat exchange is secured by natural convective cooling and heat sink of metal on the rear, thus guaranteeing totally silent continuous operation.

Operation modes:

There are two modes of operation: half IR-power and full IR-power output. The operation modes are selectable using the corresponding switch on the backside.

Protection circuit:

Additional to the ESD-protection the radiator is equipped with a temperature control. This control decreases the radiator output power or switches completely off in the event that the temperature is too high. This mode is indicated by different colours of LED-light at front.

Status Indication:

A LED (multicolour) displays the current mode of operation:

- Blue flashing: OFF (Standby)
- Blue permanent: ON (full IR power out)
- Yellow permanent: ON (half IR power out)
- Red flashing: failure, e.g. excess temperature, one or more diode-lines are defective, other malfunction

Technical Data

The IRad is complying with international standard IEC914, IEC61603-3 and IEC61603-7

General

- Carrier frequency range: 40 ... 4000 kHz (band II and band IV)
- Number of transmitter diodes: 336
- Average radial angle of the IR diodes: 30°
- Average IR transmission power: 20W
- Switch for 50% / 100% IR power output
- Switch for line termination
- Highly linear input and output signal quality

Connectors

- Mains power connector on the rear of the radiator (recessed IEC panel plug) with ESD-protection.
- The IEC mains socket connector placed next to the mains power connector can be used for connecting the next radiator in line.
- RF-input with one BNC-connectors (50 Ohms). The second parallel electric BNC socket is used to loop through the signal

Temperature Range

- Operation: +10°C to +40°C
- Storage: -20°C to +50°C
- Humidity: <80%, non condensing
- Convective cooling

Power Supply

- Mains power: (85 ... 240) VAC, (50 ... 60) Hz provided by the built-in switching power supply.
- Power consumption: Stand-by: 6 W Half power: 25 W Full power: 35 W

Housing

- The cabinet is in plastic, both the swivel bracket and the heat sink are in metal
- W x H x D: (420 x 282 x 50) mm

Weight

- 5kg

Accessories

- 4.0 m mains connection cable
- 3.5 m BNC - cable

BRÄHLER ICS is committed to continually improving its products and so reserves the right to make technical modifications without notice.

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