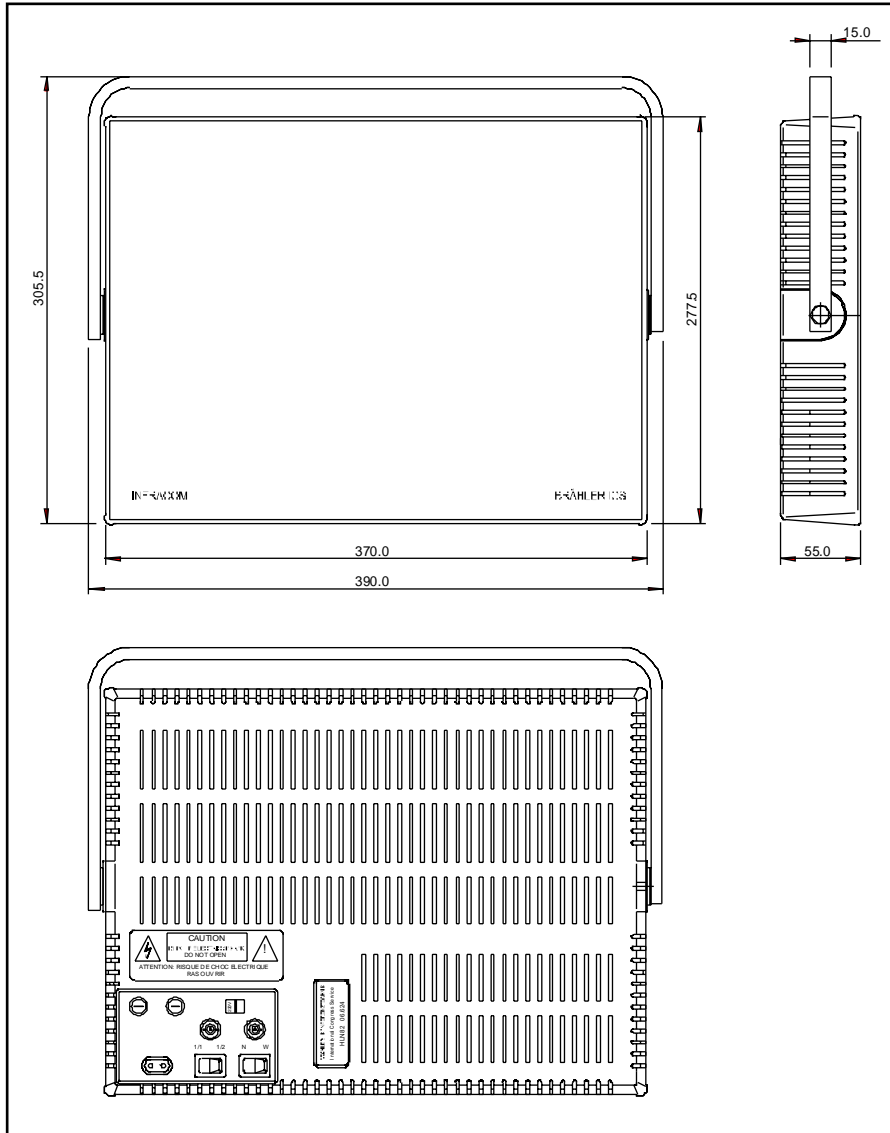


INFRACOM® High-Power Radiator

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



Transmission over an area of ... m ² with ... channels		Range of one/two radiator(s) when transmitting ... channel	
		1	2
Channels	m ²	m	m
1	6710	120	170
2	3355	85	120
4	1678	60	85
6	1118	49	69
9	746	40	57
12	559	35	49
21	287	31	37

These values apply in the absence of any amplification effect, such as reflections from light-coloured walls and ceilings, which might allow for reducing the number of radiators required even further.

The high-power radiator can also be switched over to wideband operation, thus increasing its range by around 30%.

Power supply is provided by an integrated power supply unit which is automatically switched on by an high frequency sensor (connected via a BNC socket).

LEDs situated on the radiator's front panel indicate the presence of a mains voltage as well as the operating modes 50%/100% power and wideband operation, thus permitting operating mode control even from a considerable distance.

Transmitter and high-power radiator are connected by means of a coaxial cable with BNC plugs, which allows connection of up to 20 radiators in one single daisy chain.

The HLN82B high-power radiator requires no cooling fan; heat exchange is secured by natural convective cooling, thus guaranteeing totally silent continuous operation.

The cabinet is in black plastic and can be supplied in other colours on request.

The radiator is supplied with a swivel bracket for wall-, tripod- or ceiling-mounting (see accessories).

Description

The latest generation of INFRACOM® radiators is a product of long-term experience in the development and daily use of infrared transmission systems. Now, up to 21 channels can be transmitted simultaneously in FM quality on different frequencies.

The INFRACOM® high-power radiator HLN82B only weighs 2.5 kg while producing a transmission output of 20 watts. This makes it particularly suitable for use in large rooms and halls, guaranteeing even and properly dimensioned IR illumination. Due to its reduced weight, it

is the perfect radiator for use in portable installations.

The left-hand side of the table below shows the respective areas which the HLN82B is able to reliably illuminate under optimum conditions (depending on the number of channels used for transmission). The right-hand side of the table shows the range of one or two radiators positioned next to one another (also depending on the number of channels used for transmission). All these values are based on a reception quality with a signal-to-noise ration of >40dB, i.e. without any audible interference.

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Technical Data

Complies with int. standard IEC914
Frequency response: 40...1000kHz
Number of transmitter diodes: 294
Average IR transmission power: 20W
Switchable to wideband operation (30% increase in range)
Average angle of radiation: 50°
Highly linear input and output stage
Turn-on current limiter
Integrated mains suppression filter
HF input voltage: 50...700mV
LED to indicate system ready
2 LEDs to indicate 50% / 100% transmission power
LED to indicate wideband operation
LED (flashing) to indicate a defective fuse
Switch for 50% / 100% transmission power
Convective cooling, no fan
Power uptake: 50W
Mains voltage supply, selectable: 115/230V, 50...60Hz
Permissible ambient temperature for operation: 10-40°C
Plastic cabinet, black
Retention bracket, 360° rotation
Dimensions (excluding retention bracket): 370x277.5x55mm
Dimension (including retention bracket): 390x305.5x55mm
Weight: 2.5kg
Supplied with:
1 mains cable 4m
1 BNC cable 3.5m

Accessories

We offer a complete program of accessories permitting the use of the radiators in both portable and permanent installations:

B1-1 INFRACOM[®] BNC cable 1m
B1-10 INFRACOM[®] BNC cable 10m
B1-15 INFRACOM[®] BNC cable 15m
B1-20 INFRACOM[®] BNC cable 20m
B1-25 INFRACOM[®] BNC cable 25m
UG-914/U BNC connector
W-BNC INFRACOM[®] line terminator
WB8 wall-mounting bracket
DB1 ceiling-mounting bracket
BS91 radiator tripod 3.2m
BS98 radiator tripod 2.9m

Preferential Service Program

This item is available at short-notice.

Tender Specification

The IR high-power radiator is to produce a transmission output of 20 watts and must be switchable to 50% power. Power supply is to be provided by an integrated power supply unit which must be automatically switched on by an high frequency sensor or by means of a relay control.

LEDs situated on the radiator's front panel must indicate the operability and transmission power (50% or 100%). They must be clearly visible from a considerable distance.

The cabinet must be particularly light-weighted and be made in black plastic. On request, it must also be available in other colours.

The high-power radiator must be cooled by natural convection and must not incorporate a fan in order to guarantee totally silent and reliable continuous operation. It must also incorporate a mains suppression filter.

The radiator must be mounted in a swivel bracket capable of 360° rotation and be supplied with an assembly kit permitting easy installation on ceilings, walls and tripods.

Infrared high-power radiator model BRÄHLER ICS[®], type HLN82B or equivalent.