



BOSCH

Invented for life

LBB 451x/00 Infra-red Radiators



- ▶ **LBB 4511/00 covers up to 1300 m² (one carrier, 4 standard quality channels)**
- ▶ **LBB 4512/00 covers up to 2600 m² (one carrier, 4 standard quality channels)**
- ▶ **Automatic gain control ensures the IREds (infra-red emitting diodes) function with maximum efficiency**
- ▶ **Power output selection for efficiency and economy**

These radiators are used to distribute infra-red signals throughout the conference venue, enabling delegates to listen to the proceedings by means of personal receivers.

Functions

- Universal mains power facility allows use worldwide
- No fan - cooled by convection - resulting in quieter operation and less moving parts to wear out
- LED indicators for radiator status checking
- Communication between radiator and transmitter for easy checking by the operator
- Automatically switches on when transmitter is switched on and vice versa
- Automatic cable equalization ensures maximum transmission efficiency with different quality of cables
- Automatic cable termination simplifies installation
- Temperature protection circuitry automatically switches radiator from full- to half- power if the temperature becomes too high
- Adjustable radiator angle ensures maximum coverage
- IREds protected by a cover plate, making the units easy to maintain and clean
- Attractive and stylish design

Controls and Indicators

- Two yellow LEDs: one on each radiator panel to indicate that this panel is switched on and is receiving carrier waves from the transmitter
- Two red LEDs: one on each radiator panel to indicate that this panel is in standby mode

- Red and yellow LEDs simultaneously illuminated to indicate the radiator panel is malfunctioning
- Red LED flashing and yellow LEDs to indicate the radiator panel is in temperature protection mode
- Power reduction switch to reduce the output of the radiator to half-power
- Two delay compensation switches to compensate for differences in cable lengths between transmitter and radiators

Interconnection

- Male Euro socket for mains connection
- HF input and output connectors (2 x BNC) for connection to transmitter and loop-through to other radiators

Parts Included

Quantity	Component
1	LBB 451x/00 Infra-red Radiator
1	Mains cable
1	Bracket for mounting unit on ceiling
2	Plates for mounting unit on floor stand

Technical Specifications**Electrical**

Mains voltage	90 to 260 V, 50 to 60 Hz
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Power consumption

LBB 4511, operating	100 W
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LBB 4511, standby	8 W
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LBB 4512, operating	180 W
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LBB 4512, standby	10 W
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Number of IREDS

LBB 4511	260
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LBB 4512	480
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Total optical peak intensity

LBB 4511	12 W/sr
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LBB 4512	24 W/sr
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Angle of half intensity	± 22°
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HF input	nominal 1 Vpp, minimum 10 mVpp
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Mechanical

Mounting	Suspension bracket for direct ceiling mounting Mounting plates for floor stands with M10 and 1/2 in Whitworth thread Optional wall mounting bracket (LBB 3414/00) available
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Dimensions (H x W x D)

LBB 4511 without bracket	200 x 500 x 175 mm (7.9 x 19.7 x 6.9 in)
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LBB 4512 without bracket	300 x 500 x 175 mm (11.0 x 19.7 x 6.9 in)
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Radiator angle

floor-stand mounting	0, 15, and 30°
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wall/ceiling mounting	0, 15, 30, 45, 60, 75 and 90°
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Weight

LBB 4511 without bracket	6.8 kg (15 lb)
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LBB 4511 with bracket	7.6 kg (17 lb)
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LBB 4512 without bracket	9.5 kg (21 lb)
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LBB 4512 with bracket	10.3 kg (23 lb)
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Color	bronze
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Ordering Information

LBB 4511/00 Infra-red Radiator medium-power, covers up to 1300 m ² (4265 ft ²)	LBB4511/00
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LBB 4512/00 Infra-red Radiator high-power, covers up to 2600 m ² (8530 ft ²)	LBB4512/00
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Accessories

LBB 3414/00 Wall Mounting Bracket Bracket wall mount for radiators.	LBB3414/00
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INT-FCRAD Flight Case for Radiator flight case for 1 radiator	INT-FCRAD
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