



**Specify Part Number**

LBB 4511/00

INTEGRUS Radiators are used to distribute the infrared light in the room to the receivers. Up to 120 radiators can be daisy-chained to one transmitter via RG59 BNC cabling. The radiator requires a mains power supply.

## Key Features & Benefits

- Covers up to 10,750 square ft. (999 square meters) (one carrier, 4 standard quality channels)\*
- Power output selection for efficiency and economy
- 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 gain control ensures the IRED's (infra-red emitting diodes) function with maximum efficiency
- 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
- Brackets for mounting on ceiling and floor stand included, which simplifies installation
- Adjustable radiator angle ensures maximum coverage
- IRED's protected by a cover plate, making the units easy to maintain and clean
- Attractive and stylish design
- Mains cable included

\* When the amount of channels in use doubles, the footprint is reduced by half

### Listen Technologies Corporation

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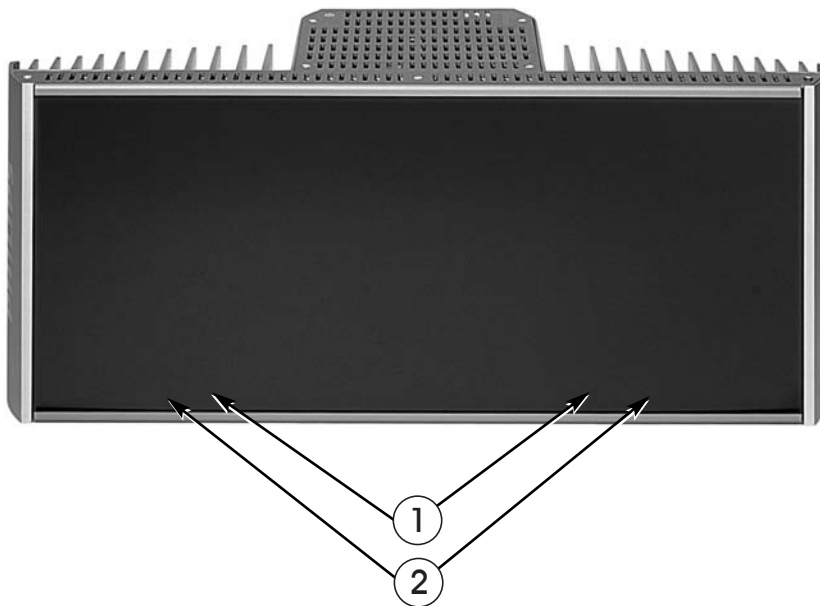
Don't miss a single sound.



# LBB 4511 Radiator

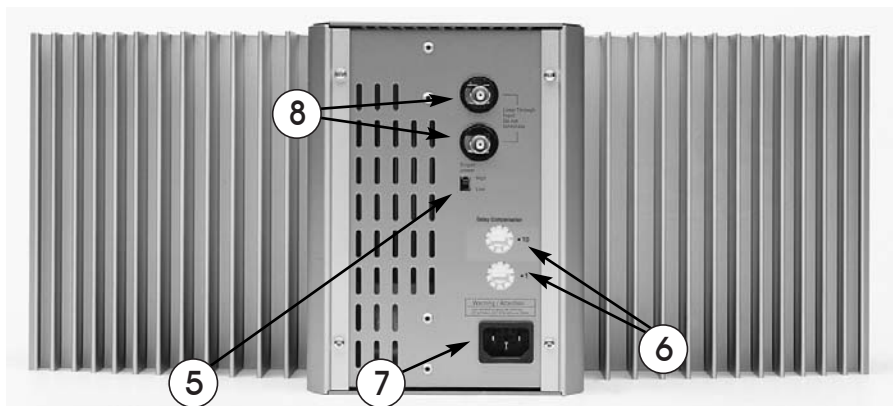
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Digital Infrared Products

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NOTE:

③ and ④ use the same LED's as ① and ②



## Features

1. Two yellow LED's: one on each radiator panel to indicate that this panel is switched on and is receiving carrier waves from the transmitter
2. Two red LED's: one on each radiator panel to indicate that this panel is in standby mode
3. Red and yellow LED's simultaneously illuminated to indicate the radiator panel is malfunctioning
4. Red LED flashing and yellow LED's to indicate the radiator panel is in temperature protection mode
5. Power reduction switch to reduce the output of the radiator to half-power
6. Two delay compensation switches to compensate for differences in cable lengths between transmitter and radiators
7. Male Euro socket for mains connection
8. HF input and output connectors (2 x BNC) for connection to transmitter and loop-through to other radiators

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# LBB 4511 Radiator

## Specifications

Cabling and System Limits	Cable type	75 ohm RG59
	Maximum number of radiators	30 per HF output
	Maximum cable length	TBD
Physical	Mounting	Suspension bracket for direct ceiling mounting Mounting plates for floor stands with M10 and 1/2"Whitworth thread LBB 3414/00 Wall Mounting Bracket can be used for fixing radiator to wall surfaces
	Dimensions (H x W x D)	without bracket: 7.9 x 19.7 x 6.9 in. (200 x 500 x 17 mm)
	Radiator angle	0, 15 and 30° for floor-stand mounting 0, 15, 30, 45, 60, 75 and 90° for wall/ceiling mounting
	Weight	without bracket: 15 lbs. (6.8 kg) with bracket: 17 lbs. (7.6 kg)
	Finish	Bronze colored
	Electrical and Optical Characteristics	Number of IREs
Total IR output at 68°F (20 °C)		8 Wrms 16 Wpp
Total optical peak intensity		9 W/sr
Angle of half intensity		± 22°
HF input		nominal 1Vpp, minimal 10 mVpp
Mains voltage		90 to 260 V, 50 to 60 Hz
Power consumption		100 W
Power consumption (standby)		8 W
System Environmental Conditions	Working conditions	Fixed/stationary/transportable
	Temperature range - transport	-40 to 158 °F (-40 to + 70 °C)
	Temperature range - operating	41 to 113 °F (+5 to + 45 °C)
	Maximum relative humidity	< 93%
	Safety	According to EN 60065, CAN/CSA-E65 (Canada and US) and UL 6500 According to EN 60065, CAN/CSA-E65 (Canada and US) and UL 1419 for LBB 4511/00 and LBB 4512/00
	EMC emission	According to harmonized standard EN 55103-1 and FCC rules part 15, complying with the limits for a class A digital devices
	EMC immunity	According to harmonized standard EN 55103-2
	EMC approvals	Affixed with the CE mark
	ESD	According to harmonized standard EN 55103-2
	Mains harmonics	According to harmonized standard EN 55103-1
Environmental requirements	Contains no banned substances as specified in UAT-0480/100 (e.g. no cadmium or asbestos)	

Photographs, CAD drawings, etc. available at [www.ListenTech.com](http://www.ListenTech.com).

## Warranty

Most Bosch equipment carries a 3 year limited manufacturer's warranty (excluding accessories) to be free from defects in workmanship and material under normal use and conditions. Bosch rechargeable batteries carry a 1 year warranty. All Bosch accessory items carry a 90-day warranty to be free from defects in workmanship and material under normal use and conditions. Warranty does not cover normal wear and tear on the product or any other physical damage unless the damage was the result of a manufacturing defect. This warranty is void if damage occurred because of misuse or if the product has been repaired or modified by anyone other than a factory authorized service center. Contact Listen or see the Listen website for further details.

## Accessories



### LBB 3414/00 Integrus Wall Mounting Bracket

Study metal bracket to mount the Integrus Medium or High Power Radiators to a wall.



### LA-337 Integrus Radiator Stand

The Integrus Radiator Stand is a portable tripod stand for the Integrus medium and high powered radiators. Made of sturdy aluminum and glass-reinforced polycarbonate fittings this stand is also lightweight enough for portable application.

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