

LA-140 Stationary IR Radiator

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www.listentech.com



The LA-140 IR radiator/emitter packs high infrared power in a small and attractive design, with your choice of grey

or white packaging. Designed for easy installation using standard components, the LA-140 is powered via CAT-5 cabling while the RF modulated carriers are delivered via standard coax cable. Mounting brackets are included for wall, ceiling, desk, mic stand and tripod mounting. Power can be supplied by the LT-82 transmitter or from a separate power supply (LA-205). Built-in delay compensation prevents signal cancellation (multi-path) problems and eliminates the piled-up cabling that is required

with other systems. The LA-140 is used for government compliance (such as ADA), assistive listening, language interpretation, live theatre, houses of worship, courtrooms, secure rooms and for auditory description.

Configuration

LA-140-GY (Grey)
LA-140-WH (White)

Highlights

- Outstanding coverage - 10,000 ft² (929 m²).
- Two (2) radiators can be powered from a single LT-82 transmitter or optional power supply using standard CAT-5 cabling - eliminating the need for multiple cables.
- White or grey color - allows for a variety of aesthetic settings.
- Includes wall, ceiling, desk, mic stand and tripod mounting brackets - gives multiple options for mounting.
- Units can be horizontally or vertically mounted together - doubles the power in a small footprint.
- Radiator diodes are turned off if no audio signal is present at the transmitter after 30 minutes - saves radiator diode life.
- Delay compensation - ensures no drop out in the IR signal.

Architectural Specification

The radiator-emitter shall have a single carrier transmitting area of no less than 10,000 ft² (929 m²) or greater for each radiator specified when used with specified receiver. The radiator shall be powered via CAT-5 cabling and the RF from the transmitter shall be carried by 50 ohm coaxial cable. The radiator shall have three indicating LEDs for power, no carrier present and carrier present. The radiator LEDs shall be deactivated after 30 minutes if there is no audio signal present from the transmitter. The radiator shall come in a white or grey color and shall include all of the mounting hardware capable of mounting the radiator on a wall, on a ceiling, in a corner, on a desk, on a mic stand or on a tripod. The Listen LA-140 is specified.

Includes

LA-140 Stationary IR Radiator
Mounting hardware for one unit (allows for wall, ceiling, desk, mic stand and tripod mounting)
25 ft. (7.6 m) of coax cable, matched color
25 ft. (7.6 m) of CAT-5 cable, matched color
Quick Reference Card

Requires

LT-82 Stationary IR Transmitter

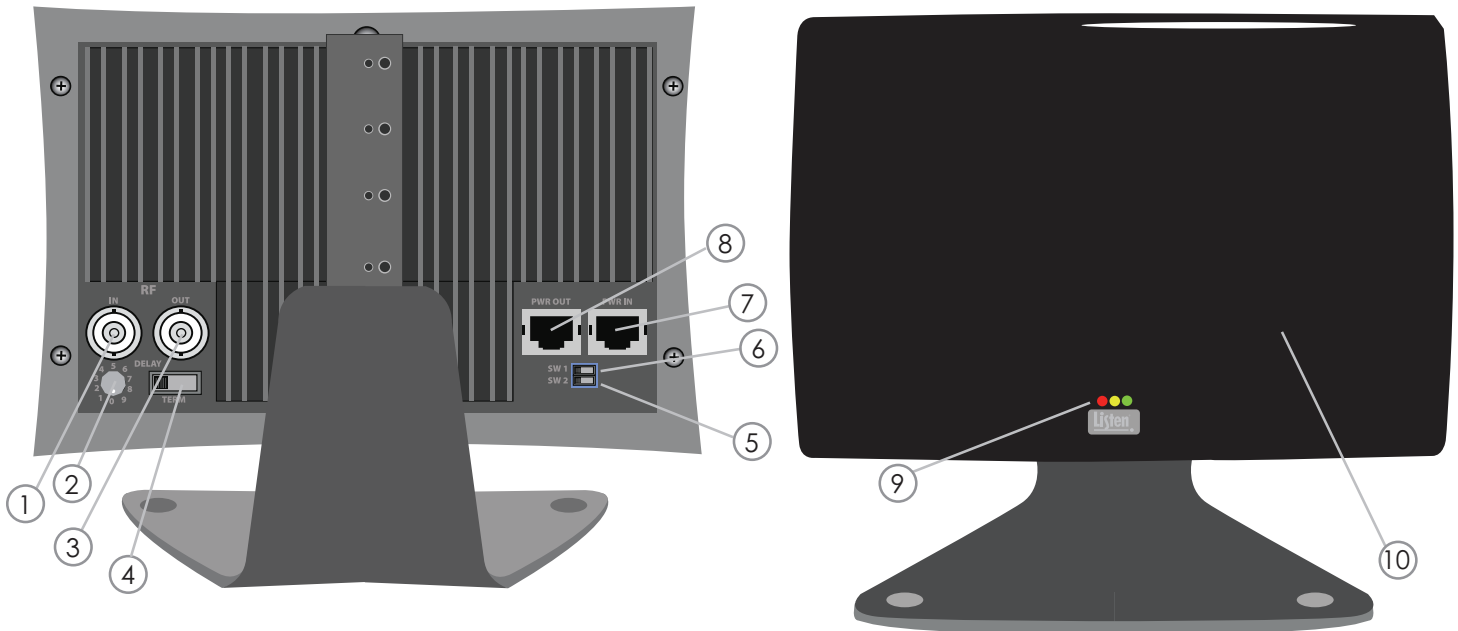
Used With

LR-42 IR Stethoscope 4-Channel Receiver
LR-44 IR Lanyard 4-Channel Receiver

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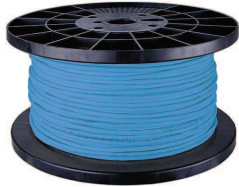
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Product Features

1. RF input connector - this is the connection from the LT-82 transmitter or from the output of another radiator.
2. Delay compensation - allows you to set different delays so all radiators have the same timing. This prevents drop-outs caused by signals out of phase.
3. RF output connector - use this to send the RF input to another radiator.
4. Termination Switch - use to terminate the coaxial cable.
5. Compatibility switch - use this switch when using a non-Listen transmitter.
6. LED illumination switch - use this to turn on/off the illumination of the front panel LEDs.
7. Power connection from LT-82 transmitter or optional power supply (LA-205).
8. Power connection to (optional) second radiator.
9. LEDs - Three LEDs that indicate *power*, *no carrier present* and *carrier present*.
10. Color: Two different colors. Available in Grey (LA-140-GY) or White (LA-140-WH). Mounting brackets and supplied cables match the radiator.

Accessories



LA-70

Cables / Connectors

LA-70 CAT-5e Cable (Per ft.)
LA-71 RJ-45 CAT-5e Connector (10)
LA-72 RJ-45 CAT-5e Coupler
LA-112 RG-58 50 Ohm Coaxial Cable (Per ft.)
LA-115 RG-58 BNC Coupler
LA-127 RG-58 BNC Connector
LA-391 RG-58 50 Ohm Preassembled Coaxial Cable (Per ft.)
LA-393 CAT-5e Preassembled Cable (Per ft.)



LA-337

Mounting

LA-337 IR Radiator Floor Stand
LA-342 Stationary IR Dual Radiator Mounting Bracket



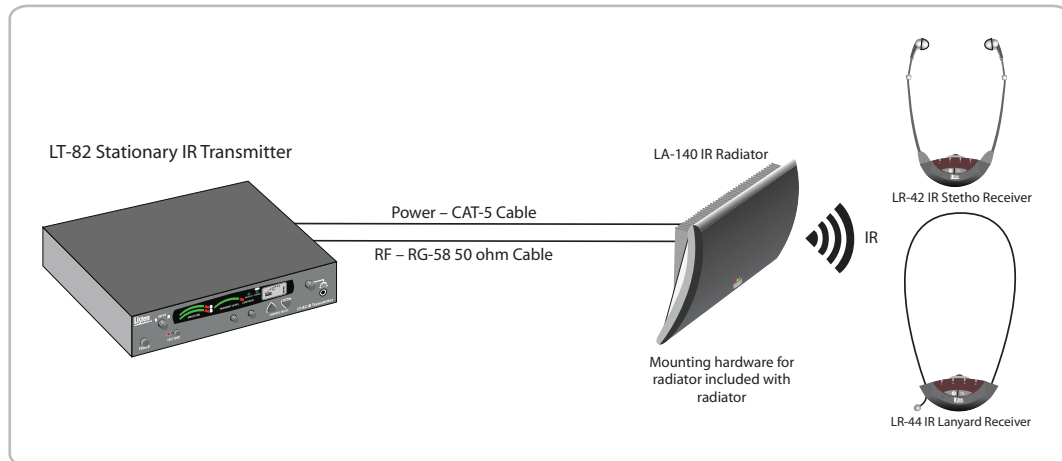
LA-205-(01,02,03)

Power Supply

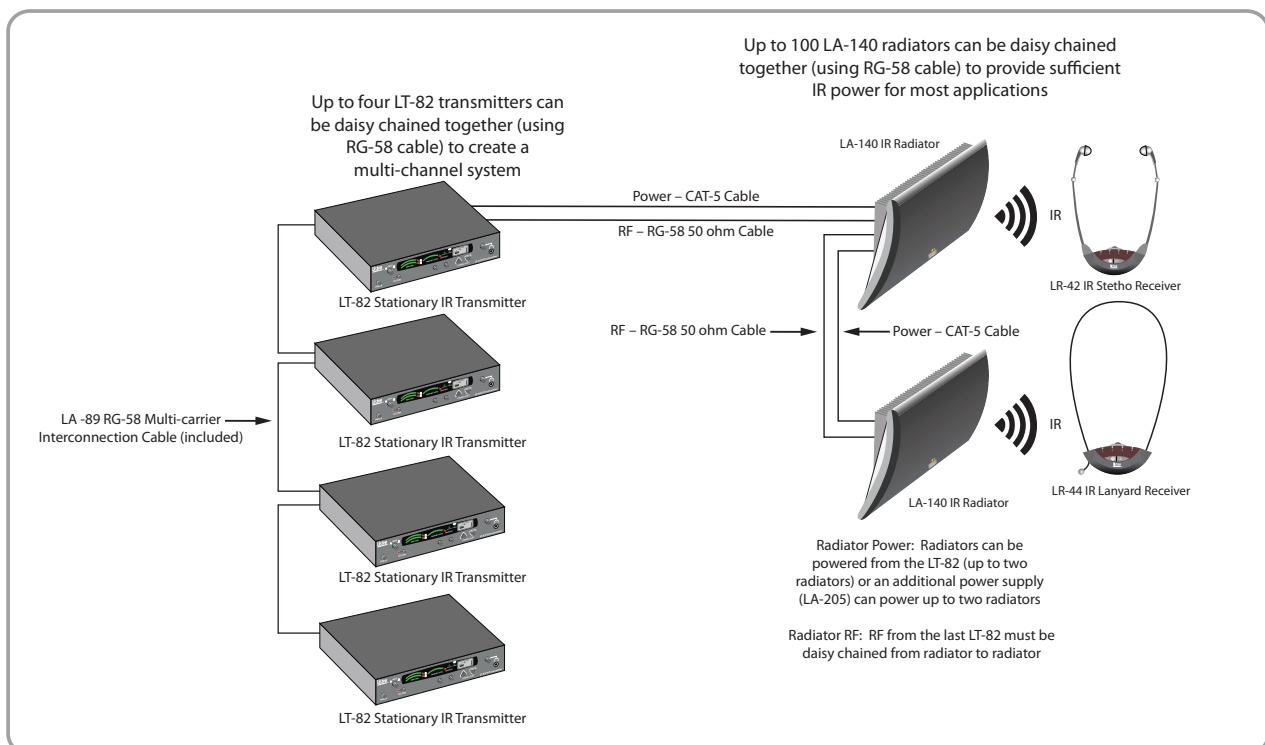
LA-205-(01,02,03) 30 VDC Extension/Replacement Power Supply for LA-140/LT-82

Specifications		LA-140
RF	Frequency Range	1 MHz - 5 Mhz
	Input	BNC Connection. -25dbm to -5dbm input nominal
	Output	BNC Connection. -15 dbm nominal
	Compliance	FCC Part 15, Industry Canada, CE, RoHS
	Coverage Area	10,000 f ² (929 m ²) when used with Listen Receivers
Controls	User Controls	Termination Switch, Delay Compensation Switch, Indicator LEDs on/off, Compatibility Switch
Indicators	Red LED	Indicates power is present
	Yellow LED	Indicates no connection to transmitter or radiator
	Green LED	Indicates carrier and power are present and radiator is emitting IR signal.
Power	Input	RJ-45 connector. 30 VDC, powered from transmitter via CAT-5 cable or optional LA-205 power supply.
	Output	RJ-45 connector. 30 VDC, powers up to one additional radiator. (Maximum two radiators powered from each LT-82 transmitter or LA-205 power supply)
	Emitter Power	3 W
Physical	Dimensions (H x W x D)	5.50 x 8.00 x 2.60 in. (140 x 203 x 66 mm)
	Color	LA-140-GY (Grey), LA-140-WH (White)
	Unit Weight	2.1 lbs. (0.95 kg)
	Unit Weight with Wall/ Ceiling Mounting hardware	2.4 lbs. (1.09 kg)
	Shipping Weight	4.0 lbs. (1.81 kg)
Environmental	Temperature - Operation	-14° F (-10° C) to +104° F (40° C)
	Temperature - Storage	-4° F (-20° C) to +122° F (50° C)
	Humidity	0 to 95% relative humidity, non-condensing

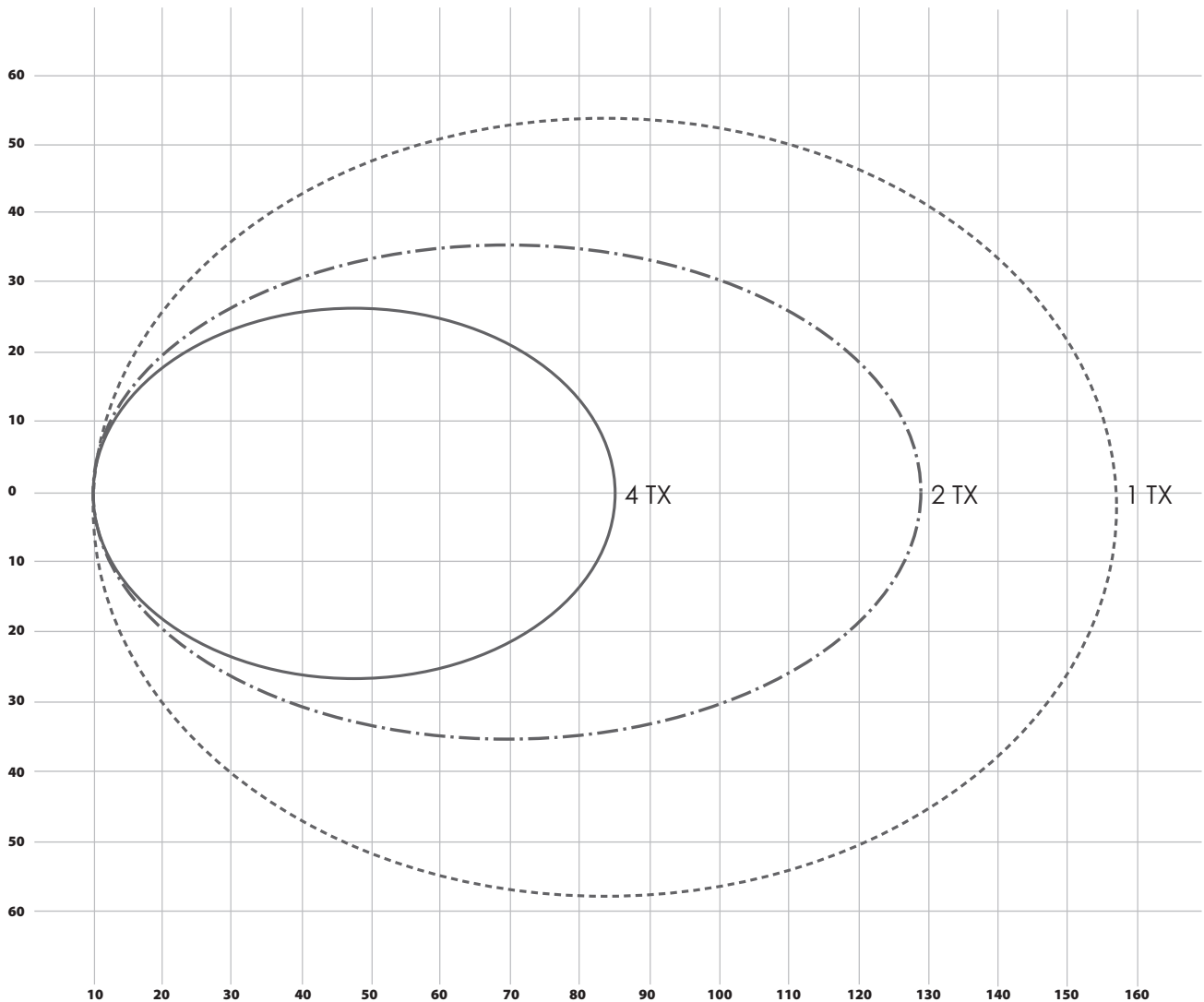
Stationary IR Block Diagram Basic Single Channel/Single Radiator System



Stationary IR Block Diagram Multi-Channel/Radiator System



Radiator Footprint



Except in small rooms it is recommended that at least two radiators be used to ensure good coverage and minimal shading. Listen radiators (when used with Listen receivers) will cover approximately 10,000 sf (929 sm) for one channel as indicated in the diagram below (note the coverage decreases as the number of channels goes up). For two channels, one radiator will cover 5,000 sf (465 sm) and for four channels, one radiator will cover 2,500 sf (232 sm).