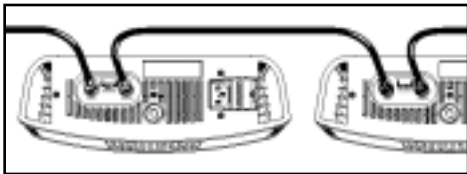
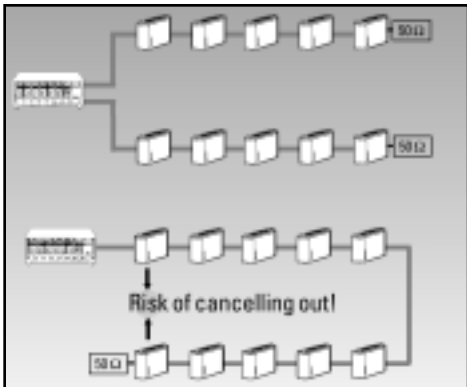


Bottom view of the SZI 1029 with sockets and controls



Daisy-chaining the SZI 1029



SZI 1029 Infrared Emitter

The SZI 1029 is a high powered infrared emitter for wideband or narrow-band signals from an IR modulator. Covers up to 12,500 sq. ft. in single channel mode; 6,250 sq. ft. in 2-channel mode; 8,000 sq. ft. divided by number of channels in multi-channel mode.

Features—Benefits

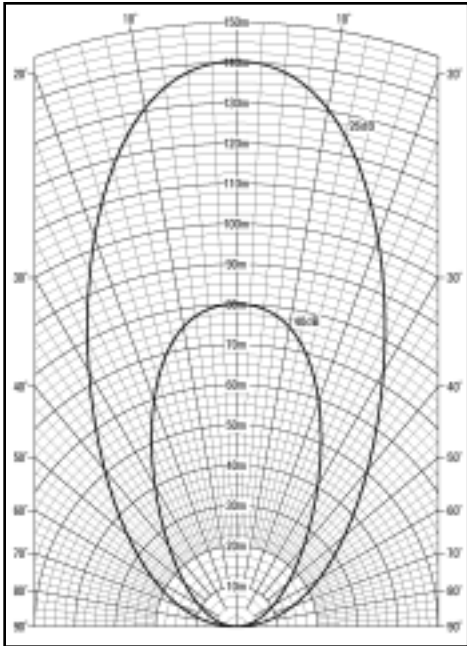
- High powered radiator with a maximum coverage area of 12,500 sq. ft.
- RF output for connecting additional radiators
- Automatic on/off function
- 5/8" and 3/8" threads for mounting
- 12 independent groups of transmitting diodes and malfunction indicator
- Greater coverage area
- Convenient interconnectivity
- Controlled from a single location
- Ease of installation
- Excellent reliability
- Available in black or white

Technical Data

Number of transmitting diodes	144
IR light wavelength	880 nm
Average diode current	110 mA
Average radiating power	5 W
Coverage area	12,500/6,250 sq. ft. narrow band multi-channel 8,000 sq.ft/# of channels
Sub-carrier frequency range	30 kHz–6 MHz
RF input sensitivity	50 mV–3 V
RF input impedance approx.	5 kW
Threshold voltage for automatic on/off function	50 mV
RF input/output	2 x BNC sockets
Operating voltage	90–280 V AC (switchable PSU) internal 24 V DC
Power consumption	Stand-by/operation 50 mA /1.6 A 230 V operating voltage 350 mA 120 V operating voltage 610 mA
Recommended cabling	50Ω coax (RG58)
Dimensions in inches	9.84 x 7.08 x 3.15
Weight	approx. 4 lbs.

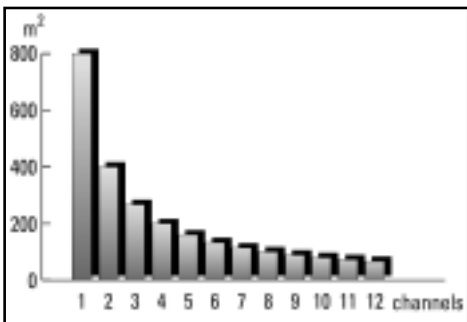
Product Variants

SZI 1029 in white	SZI 1029-W
SZI 1029 with operating voltage of 24 V DC (requires a separate DC power supply. Recommended 25–35 V DC at 1.7 A per emitter.)	SZI 1029-24
SZI 1029 but with 10 W radiating power and larger housing. Color: black	SZI 1029-10
SZI 1029, but with 10 W radiating power and larger housing. Color: white	SZI 1029-10W

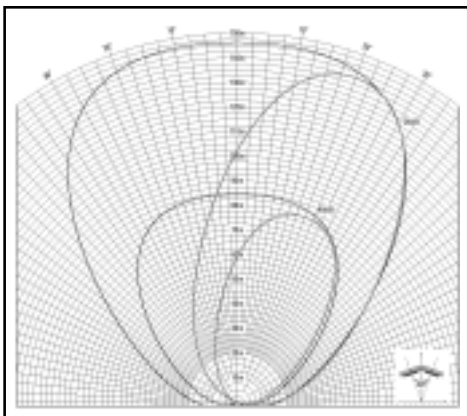


Coverage Area and Polar Diagrams

The coverage area of the SZI 1029 high-power radiator depends on the number of channels transmitted. For single-channel applications, the coverage area is up to approx. 12,500 sq.ft.



Coverage area of the SZI 1029



Polar diagram of two SZI 1029, mounted at an angle of 40° to each other*

Supplied Accessories

1 power cord for 110V AC outlet

Required Accessories

Modulator

Terminating resistor, 50 Ω, for the last emitter on the chain, can be used with any IR modulator

SZA 1060

Optional Accessories

Wall/ceiling mount with 5/8" thread

WM1

Omni-directional ball joint wall mount & flange

GZG1029 & GZP10

Floor stand

SEMS3000

Terminating resistor, 50 Ω, for the last Emitter in the chain

SZA1060

Product Compatibility

SI 1015 Infrared Transmitter

Architect's Specifications

The unit shall be an infrared high power radiator with RF input for wide and narrow-band signals. Carrier frequency band extends to 6 MHz RF input (50 mV to 3 V) via BNC socket, RF output via BNC socket. Excellent reliability due to 12 independent diode groups with malfunction indicator. 90–280 V AC power supply. Weight approx. 4 lbs. The unit shall be a Sennheiser SZI 1029.

Sennheiser Electronic Corporation, 1 Enterprise Drive, Old Lyme, CT 06371

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Manufacturing Plant: Am Labor 1, 30900 Wedemark, Germany