



SOUND ASSOCIATES, INC.

INFRARED EMITTER

- SA611 (SMALL AREA)
- SA612 (STANDARD)
- SA613 (LARGE AREA)

The Sound Associates 600 series emitters are high-powered infrared emitter panels that convert a frequency modulated signal, generated by an infrared modulator or transmitter, into infrared light invisible to the naked eye. The SA611, SA612 and SA613 work in conjunction with the SA601F Transmitter, PS24 and SA650 series receivers. These emitter panels are powered by 24-30 volts DC, activated by the carrier signal from the transmitter. One PS24 Power Supply will power a maximum of four SA611's, two SA612's, or one SA611 and one SA613. The SA600 series emitters are equipped with infrared diodes rated for 100,000 hours designed to ensure years of quality performance at an affordable price.

Features:

- Powered by low voltage, eliminating the need for 120 VAC at each emitter location.
- Infrared diodes are activated when modulated signal is present.
- Fault circuit indicates diode or voltage regulator failure.
- New switching voltage regulator increases efficiency by 20%.
- Terminal strip allows for easy connection to power supply.
- Removable front plate allows for painting of emitter panel to blend into its surrounding.
- Connected to a power supply via a single, 2-conductor shield cable that supplies voltage and signal to emitter.
- Full three-year warranty.

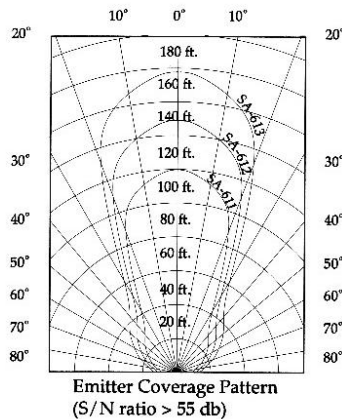
SA612 Low-voltage Emitter Panel
Available in black or white



SA611 Low-Voltage Emitter Panel
Available in black or white



SA613 Low-Voltage Emitter Panel
Available in black or white





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Accessories:

Mounts: MB13 (Wall or ceiling, available in black or white)
 MB1MA (Mic stand mount, available in black or white)
 MB1C (Emitter mount with C-Clamp, black only)

Cable: SA6000 (16 GA emitter cable, bulk/ft.)
 SA6000P (16 GA emitter cable, plenum rated, bulk/ft.)
 SA6001 (5-pin XLR line connectors, pair)
 SA6025 (25 ft. cable with 5-pin XLR connectors)
 SA6050 (50 ft. cable with 5-pin XLR connectors)
 SA6100 (100 ft. cable with 5-pin XLR connectors)

**custom cable sizes also available*

Technical Specification:

	SA611	SA612	SA613
No. of diodes	50	100	150
Average IR power	1W	2W	3W
Approximate coverage	3000 sq. ft.	6000 sq. ft.	9000 sq. ft.
IR light wavelength	940 nm	940 nm	940 nm
Modulated AF input	50 mV - 3 V/5 K ohms	50 mV - 3 V/5 K ohms	50 mV - 3 V/5 K ohms
Carrier frequency range	30 kHz - 280 kHz	30 kHz - 280 kHz	30 kHz - 280 kHz
Input connection	terminal strip or male 5-pin XLR	terminal strip or male 5-pin XLR	terminal strip or male 5-pin XLR
Output connection	terminal strip or female 5-pin XLR	terminal strip or female 5-pin XLR	terminal strip or female 5-pin XLR
Switching threshold for automatic on/off function	50 mV	50 mV	50 mV
Supply voltage (nominal)	24 - 30 VDC	24 - 30 VDC	24 - 30 VDC
Minimum supply voltage	19 VDC	19 VDC	19 VDC
Maximum supply voltage	30 VDC	30 VDC	30 VDC
Power consumption	0.6 A	1.2 A	1.8 A
Dimensions	7.75" w x 3.75" h x 2.8" d	7.75" w x 7.5" h x 2.8" d	7.75" w x 11.25" h x 2.8" d
Weight	1.6 lbs.	3.2 lbs.	4.8 lbs.
Finish	black or white powder coat	black or white powder coat	black or white powder coat
Material	aluminum extrusion	aluminum extrusion	aluminum extrusion

Cable Specification:

Alpha Model No.	Gauge	Max. Load	Max Distance (24 VDC)	Max Distance (30 VDC)
2421C	20 AWG	2.4 A	140 ft.	250 ft.
2432C	18 AWG	2.4 A	150 ft.	280 ft.
2432C	16 AWG	2.4 A	250 ft.	450 ft.

Engineering/Architectural Specification:

The unit shall be an infrared high power emitter/radiator with RF input for wide and narrow-band RF signals. The carrier frequency band extends to 280 kHz with a modulated AF input of 50 mV to 3 V (at 5 k ohms). The unit is powered locally or remotely by 19 VDC to 30 VDC. Each unit inputs RF and power via a terminal strip or a male 5-pin XLR connector and outputs via the same terminal strip or a female 5-pin XLR connector. A current sensing circuit indicates diode or voltage regulator failure. The average optical output power shall be 1W (SA611), 2W (SA612), and 3W (SA613) with power consumption of 0.6 A (SA611), 1.2 A (SA612), and 1.8 A (SA613) at 24 VDC. The unit(s) shall be the Sound Associates SA611, SA612, or SA613.

Warranty

The SA611, SA612 and SA613 infrared emitters are covered by a full three-year warranty, from the original date of purchase, against defects in workmanship or materials. If any component fails due to defects in craftsmanship or materials, we will repair or replace the component without charge. The factory warranty does not cover malfunctions due to abuse or operation other than specified.