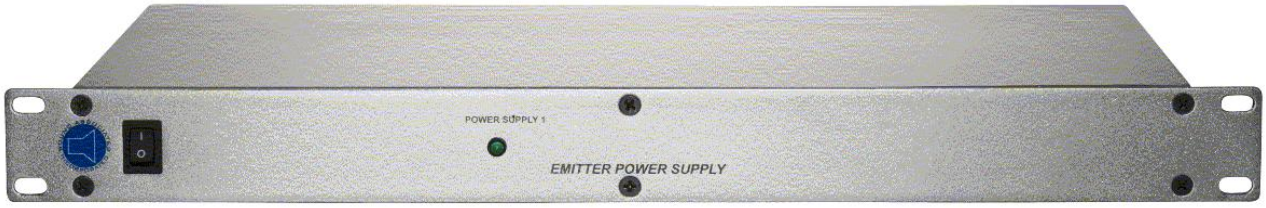
# SOUND ASSOCIATES, INC.




## INFRARED EMITTER POWER SUPPLIES

- SA1710 - Single Emitter Power Supply
- SA1720 - Double Emitter Power Supply

The SA1710 and SA1720 are low voltage, infrared emitter power supply for new and existing infrared emitter panels. The SA1710 and SA1720 utilize high-efficiency regulated switching power supply(s) internally adjustable from 27 to 33 VDC. The SA1710 single power supply can power up to six Sound Associates SA-611, three SA-612, or two SA-613 emitter panels, while the Sa1720 can power double that amount. This emitter power supply combines low voltage with a modulated audio signal supplied by an infrared transmitter. The emitter and power supply are connected via a single three conductor cable terminated at the power supply with either a 5 pin XLR connector or bare wire. This single cable supplies a modulated audio signal and power to the emitter eliminating the need for an electrical outlet at each emitter location. The SA1710 and SA1720 are equipped with a high efficiency switching power supply and a quiet forced air cooling system designed to insure years of quality performance.

### Features:

- Universal Input Voltage 90 to 264 VAC - Automatic Sensing.
- Over voltage and over load protection.
- High quality internal power supply rated at 120 Watts.
- Quiet forced air cooling system.
- Supply can be linked with existing infrared transmitters via BNC connection.
- Units can be daisy chained together.
- Single rack space design.
- Includes BNC-003 three foot RG59u BNC to BNC cable.
- Full 3-year warranty.

424 West 45th Street, New York, NY 10036 TEL: 212-757-5679
TOLL FREE 888-772-SOUND (888-772-7686)
www.soundassociates.com

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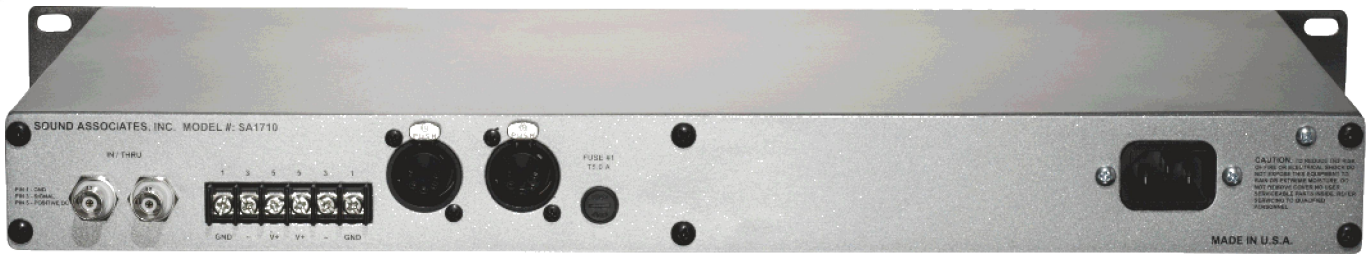


## Technical Specification:

| | SA1710 | SA1720 |
|---|---|---|
| **Modulated Audio Input/Link** | | |
| Connector | Chassis mount BNC | Chassis mount BNC |
| Number of inputs/outputs (links) | 2 | 2 |
| **Output** | | |
| Connector | 5-pin female XLR / terminal strip | 5-pin female XLR / terminal strip |
| Number of outputs | (2) 5-pin female XLR / (1) terminal strips | (4) 5-pin female XLR / (2) terminal strips |
| Wiring of 5-pin XLR | 1, 2 - ground; 3 - signal; 4, 5 - positive DC | 1, 2 - ground; 3 - signal; 4, 5 - positive DC |
| Wiring of terminal strip | 1 - ground; 3 - signal; 5 - positive DC | 1 - ground; 3 - signal; 5 - positive DC |
| Output voltage | 30 +/- 0.5 VDC Internally adjustable | 30 +/- 0.5 VDC Internally adjustable |
| Load regulation | 3% typical, 5% maximum | 3% typical, 5% maximum |
| Output ripple / noise pk-pk | 1% maximum at full load | 1% maximum at full load |
| Efficiency @ full load | 80% typical, 70% minimum | 80% typical, 70% minimum |
| Short circuit and current protection | Automatic current limit/foldback 150% max | Automatic current limit/foldback 150% max |
| Over voltage protection | Automatic 132% maximum | Automatic 132% maximum |
| Fuse | (1) T5 A (5 x 20) located on back panel | (2) T5 A (5 x 20) located on back panel |
| **Power** | | |
| Power Input | Universal input 90 264 VAC sensing | Universal input 90 264 VAC sensing |
| Power Input Frequency | 47-63 Hz auto sensing | 47-63 Hz auto sensing |
| Power consumption with (6) SA611 emitters | < 120 W | < 120 W |
| Power consumption with (6) SA612 emitters | N/A | < 240 W |
| Fuse | T2.0 A (5 x 20 mm) @ 120 V internal | T4.0 A (5 x 20 mm) @ 120 V internal |
| | T1.0 A (5 x 20 mm) @ 240 V internal | T2.0 A (5 x 20 mm) @ 240 V internal |
| **Mechanical** | | |
| Mechanical dimensions | 19" w x 1.75" h x 9" d (1U) | 19" w x 1.75" h x 9" d (1U) |
| Weight | 4.2 lbs. | 5.1 lbs. |
| Finish/material | Silver powder coat | Silver powder coat |

Engineering / Architect Specifications: The emitter power supply shall provide 24-30 +/- 0.5 volts DC with a stability of +/- 1.5 VDC for 24 hours after warm-up. The power supply shall consist of one (SA1710) or two (SA1720) internal regulated switching power supplies rated for 120 watts with an output ripple of 1% peak to peak maximum and automatic current and voltage overload protection. The modulated audio input and output (link) connection shall be made via a BNC style connector. The modulated audio output plus DC voltage shall be made via 5-pin XLR connectors or bare wire. The power supply shall be able to operate with a power source of 90 - 264 VAC with frequency of 47 63 Hz. The dimensions shall be 19" wide by 1.75" high by 9" deep (1U) with a net weight of 4.2 lbs. (SA1710) or 5.1 lbs. (SA1720). The emitter power supply shall be the Sound Associates SA1710 or SA1720.

## Warranty

The SA1710 and SA1720 infrared emitter power supplies are covered by a full three-year warranty, from the date of original purchase, against defects in workmanship or materials. If any component fails due to defects in craftsmanship or materials Sound Associates will repair or replace that component without charge. The factory warranty does not cover malfunctions due to abuse or operation other than specified.

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