



SOUND ASSOCIATES, INC.

SINGLE CHANNEL INFRARED TRANSMITTERS

- SA601F (95 kHz)
- SA601FX (250 kHz)

The Sound Associates Infrared Transmitters are wideband infrared modulators for large area, professional applications.

Equipped with an internal phantom power supply to power one condenser microphone, the SA601F and SA601FX has an external pre-amp level control, adding versatility to this state-of-the-art modulator. SA600 series transmitters work in conjunction with the SA611, SA612 and SA613 infrared emitter panels and the SA650 and SA652 series wireless receivers.

The SA600 Series is used in theaters, cinemas, courtrooms, classrooms and public meeting areas to assist hearing or sight impaired individuals. Also used for simultaneous translation or audio enhancement, the SA601F series supply unsurpassed quality at an affordable price and is backed by a full three-year warranty that will ensure years of quality performance and listening satisfaction.

SA600 Series
Infrared Listening System



Features:

- Balanced line or microphone input with phantom power.
- Infrared output on the front panel for monitoring program.
- Pre-amp gain control on back panel.
- 10-segment peak responding LED bar graph display, showing true modulation output.
- Half-rack space design that can fit side by side with PS24 Power Supply in standard 19" rack.
- Available at 95 kHz (SA601F) or 250 kHz (SA601FX) modulation frequencies, compatible with other infrared listening systems.
- SSM ultra-low noise audio pre-amp used in the input stage: has very low THD, wide bandwidth, and high slew rate.
- Newly designed fast reacting limiter with no additional distortion or noise.
- High push-pull output stage capable of driving long wire runs.
- Full three-year warranty.

Accessories:

- RK1 - single unit rack mount
- RK2 - double rack mount kit
- BNC003 - RG59u BNC to BNC cable (3 ft.)

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TOLL FREE 888-772-SOUND (888-772-7686)

www.soundassociates.com



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Technical Specification:

Modulation	Transmitting frequency Modulation Modulation nominal swing Pre-emphasis	95 kHz (SA601F) or 250 kHz (SA601FX) FM ± 35 kHz nominal, ± 50 kHz peak 50 s
Input	Connector Number of inputs Wiring Phantom power Sensitivity at 1 kHz Input impedance AF frequency response (-3 dB) Maximum input level	Microphone - Female XLR; Line - $\frac{1}{4}$ " phone 1 Pin 1 - sleeve (ground); Pin 2 - tip (pos); Pin 3 - ring (neg) ± 24 V 50 mV to 2 V adjustable Balanced > 50 k ohms / > 2 k ohms 20 Hz to 20 kHz 20 dBm (7.75 V)
Output	Connector Number of outputs RF Voltage output Impedance	BNC 1 approximately 750 mV rms approximately 50 ohms
Power	Power Power consumption with (4) SA611 emitters Fuse	120/240 ACV internally switchable > 25 W T500 mA (5 x 20 mm) @ 120V; T250 mA @ 240 V internal
Mechanical	Mechanical dimensions Weight Finish/material	8.5" w x 3.5" h x 9" d 5 lbs. Black anodized aluminum

Engineering/Architectural Specification:

The infrared transmitter shall frequency modulate an audio signal at 95 kHz or 250 kHz with a nominal modulation swing of ± 35 kHz and a peak modulation of ± 50 kHz. The input stage shall consist of an SSM ultra-low noise audio pre-amp with an input sensitivity at 1 kHz adjustable from 50 mV to 2 V. The input shall be electronically balanced with the XLR connector with an input impedance $> 50,000$ ohms and the $\frac{1}{4}$ " phone connector with an input impedance $> 2,000$ ohms. The transmitter shall supply ± 24 VDC phantom power via the XLR connector to power condenser microphones. The transmitters shall have a radio frequency output voltage of approximately 750 mV (rms) and output impedance of approximately 50 ohms. The audio connection shall be made via a XLR connector for microphone level or $\frac{1}{4}$ " phone style connector for line level. The modulated audio output connection shall be made via a BNC connector. The transmitter shall be able to operate with a power source of 120 VAC or 240 VAC $\pm 12\%$ 50/60 Hz with power consumption of < 30 W. The dimensions shall be 8.5" wide by 3.5" high by 9" deep with a net weight of 5 lbs. A rack mount shall be made available, as an additional piece, to mount unit side by side or stand alone in a 19" standard equipment rack. The transmitter shall be the Sound Associates SA601F (95 kHz) or SA601FX (250 kHz).

Warranty

The SA601F and SA601FX infrared transmitters 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.

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