

## **Architectural and Engineering Specifications**

### **Sound Choice Assistive Listening, Inc. model SC-186K**

The transmitter shall operate by means of infrared light carrier frequency modulated by an audio source. The optical carriers shall operate any one center frequency of 95 kilohertz, 250 kilohertz, 2.3 megahertz or 2.8 megahertz as ordered. The infrared light wavelength shall be centered at 880 nanometers. The transmitter shall incorporate a self-contained infrared emitter system generating a main forward beam with a dispersion of 120 degrees and a radiated optical power greater than 450 milliwatts.

The transmitter shall include a built-in electret condenser microphone of the boundary effect type also commonly known as a pressure zone microphone. The transmitter shall also include self-contained audio circuitry comprising a preamplifier capable of gain greater than 50dB (decibels), a high pass rumble filter, mid/high-frequency boost equalization, an automatic gain control/peak limiter.

There shall be a 1/4 inch (6.5 mm) external input jack switchable for mic or line levels. Said switch setting shall have no effect on the integral transmitter microphone when the jack is not used. Plugging an external source in the jack will automatically disconnect the internal microphone. There shall also be a 1/4 inch (6.5 mm) line output jack for transcription recording.

The transmitter will optically transmit audio from the onboard microphone, or from an external microphone or line source. There shall be provision for a wired remote privacy mute switch which will mute the audio signal without disrupting the unmodulated infrared carrier. There shall be provision for connection to a second infrared emitter device via a jack carrying the required modulated

electrical signal.

Power shall be supplied by a UL approved AC wall outlet transformer. There shall be a power switch on the transmitter panel with a power indicator light. The exterior frame of the transmitter enclosure shall be of finished natural wood and will have external dimensions of 6 1/2 inches by 5 inches by 1 3/4 inches high (16.5 cm x 12.7 cm x 4.5 cm).

The Sound Choice Model SC-186K Infrared Audio Transmitter is specified.

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