

INFRARED SPECIFICATION DATA

Simultaneous Interpretation • Audio Description • Conferences • Multi-Media Rooms • Boardrooms
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WIR TX9

SoundPlus® Infrared Emitter



The TX9 emitter produces a wide-angle infrared signal that concentrates the IR energy efficiently in the listening area. Operating on the 2.3-3.3 MHz bandwidth, the TX9 is less susceptible to radio and lighting interference. Each TX9 emitter can cover up to 28,000 sq ft (2,600 sq m) in single-channel operation. The coverage area can be easily increased by daisy-chaining additional TX9 emitters. A wall/ceiling omnidirectional mount is included and stand kits are available for portable operation.

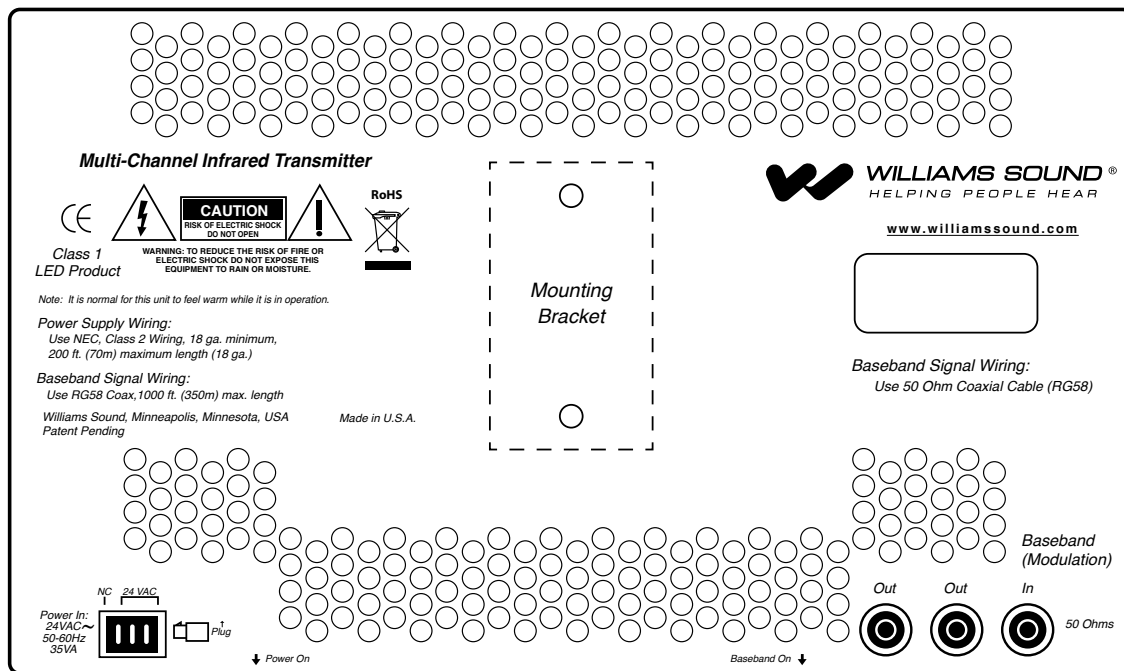
Models

WIR TX9	(N. America)
WIR TX9-01	(Europe)
Wir TX9-02	(UK)

SoundPlus® Infrared Emitter

WIR TX9 Emitter:

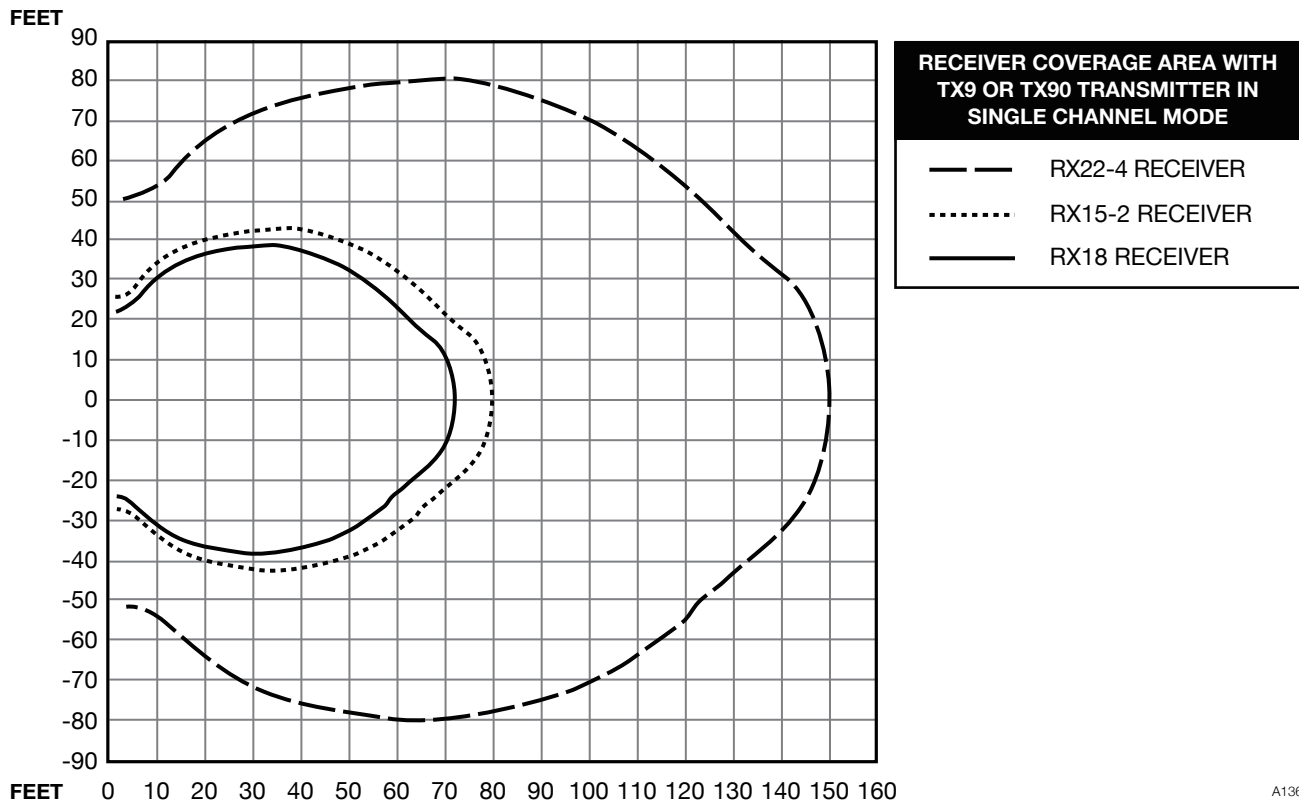
Dimensions, Weight:	11.25" W x 6.25" H x 2.125" D (28.6 cm x 15.9 cm x 5.4 cm), 1.9 lbs (0.9 kg)
Color:	Black with white legends, red acrylic lens (Available in white)
Power Supply:	Wall Transformer, 24 VAC, 50-60Hz, 35 VA, 3-pin MOLEX Connector
	North America: TFP 010, UL/CSA
	Europe: TFP 027-01, 2-pin Schuko plug, CE
	UK: TFP 027-02, 3-pin UK plug, CE
	Note: Each WIR TX9 requires its own power supply
Power Cable:	NEC Class 2 wiring, two-conductor, 18 ga, 200' (61m) max. length
Indicators:	Green LED power indicator, red LED baseband indicator
Carrier Frequency:	50 kHz to 8 MHz
Emitter IR Power:	3.5 watts
Coverage Area:	28,000 sq. ft. (2600 sq. m) in single channel mode when using the RX22-4 Receiver 18,000 sq. ft (1700 sq. m) in two channel mode when using the RX22-4 Receiver 11,000 sq. ft (1000 sq. m) in four channel mode when using the RX22-4 Receiver 3,500 sq. ft (325 sq. m) in single channel mode when using the RX15-2 Receiver 3,063 sq. ft (285 sq. m) in single channel mode when using the RX18 Receiver (See coverage area diagrams)
Baseband Input:	BNC, 100 mV per carrier, 50 Ω, for use with WIR TX9 or MOD 232 only
Baseband Output:	BNC, 50 Ω, for use with TX9 only
Baseband Cable:	RG 58 Coax, BNC connectors, maximum 1000' (300m) length
Operating Requirements:	0-50° C ambient temperature, non-condensing, non-corrosive atmosphere
Mounting Kits:	Wall or Ceiling Mount: BKT 024 Omnidirectional mount, Mic Stand Kit: SS-11 or SS-6
Warranty:	5 years on emitter, 90 days on accessories
Approvals:	CE, FCC, RoHS, WEEE
Compatible Receivers:	WIR RX22-4 Four-Channel Receiver, RX18 Two-Channel Receiver



A135

Fig. 1: WIR TX9 Rear Panel

Coverage Patterns:



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Fig. 2: Receiver Coverage Area with TX9 Emitter in Single Channel Mode

The coverage area for the TX9 will vary depending on the receiver being used. The diagram above demonstrates the receiver coverage when operating a single TX9 emitter in single channel mode. Patterns are direct radiation patterns.

Note: Reflections of the infrared light from walls, ceilings and floors may change these patterns.

SoundPlus® Infrared Emitter

Bid Specs

The emitter shall be contained in a metal enclosure with a shatter-resistant lens. The emitter shall include an omni-directional mounting bracket for permanent installation and a bracket shall be available for mounting on a floor stand for portable installations. Each emitter shall be powered by a 24 VAC, 50 VA, 50-60 Hz power supply. The power connector shall be a 3-pin Molex-type. The emitter shall have a BNC-type 50 ohm baseband input and a BNC-type baseband 50 ohm output jack. The emitter shall have a repeater circuit to allow multiple numbers of emitters to operate from the baseband signal. The emitter shall have a visible LED indicator for power and for baseband signal. Carrier frequency is 50KHz to 8 MHz. The emitter shall shut off when the

baseband signal is not present. The emitter shall provide an effective coverage area of up to 28,000 sq ft (2,600 sq m) in single-channel mode and up to 18,000 sq ft (1,700 sq. m) in two-channel mode when using the RX22-4, or RX18 receivers. The emitter shall be convection-cooled, without fans. The emitter shall have CE, FCC, RoHS, and WEEE approval and carry a five-year warranty on parts and labor.

The emitter shall be Williams Sound Corp. model WIR TX9.

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