Description:

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.

Applications:

- Simultaneous Interpretation Audio Description Conferences
- Multi-Media Rooms
 Boardrooms
 Courtrooms
 Schools
- Universities Cinemas Churches

Models:	
WIR TX9	(N. AMERICA)
WIR TX9-01	(EUROPE)
WIR TX9-02	(UK)

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		
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 ft ² (2,600 m ²) in single-channel mode when using the RX22-4 or RX12-4 Receive		
	18,000 ft ² (1,700 m ²) in two-channel mode when using the RX22-4 or RX12-4 Receiver		
	3,500 ft ² (325 m ²) in single-channel mode when using the RX14-2 Receiver		
	3,063 ft ² (285 m ²) in single-channel mode when using the RX16 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 RX12-4 Four-Channel Receiver, RX14 Stereo Receiver, RX16 Two-Channel Receiver		

Fig. 1: WIR TX9 Rear Panel

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SoundPlus® Infrared Emitter • Model WIR TX9

Coverage Patterns:



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.



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Fig. 3: 3-Dimension Foot Pattern



To determine the best location for the emitter, it helps to think of the IR emitter as an invisible floodlight. You'll want to aim it so the listeners are "flooded" with the infrared light. The emitter should also be positioned high enough so it won't be blocked by people and other physical obstructions. See Figure 4 below. Mount the emitter at least 2 ft. (.61 m) above the audience. Position the emitter to face in a slightly downward angle, 20°, that will increase the "throw" of the infrared beam.

Fig. 4 Vertical Beam Spread



***SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**



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Maximum Range When Using the RX22-4 or RX12-4 Infrared Receiver





Reflections of the infrared light from walls, ceilings, and floors may change these patterns. Important: Remember to point the emitter towards the listening audience!

If you're not getting sufficient coverage with a single, properly installed TX9 Emitter, you may need to add additional WIR TX9 Emitters to achieve full coverage of your listening area. Figures 6a and 6b illustrate how multiple emitters can be used for large room installations.



Multiple Emitters Installed to Maximize Coverage

Fig. 6a: Overlapping Illumination Patterns to Cover Larger Listening Areas



RoHS

Fig. 6a above is a typical example of how multiple emitters are used to cover larger listening areas. Generally it is desirable for the illumination patterns to overlap. Note: The coverage area will vary depending on the infrared receiver being used; refer to Figures 2 and 5 to determine how many emitters are required to achieve full coverage of a listening area.



Fig. 6b: Overlapping Illumination Patterns to Cover Larger Listening Areas

When two emitters are used at the same emission point in single channel mode, the overall coverage area increses 50%. When using an RX22-4 or RX12-4 receiver, as a result, the coverage area will increase to an estimated 42,000 ft² (3,902 m²); the RX14-2 will increase to 5,250 ft² (488 m²); the RX16 will increase to 4,590 ft² (426 m²).





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 28,000 sq ft (2,600 sq m) in single-channel mode and 18,000 sq ft (1,700 sq. m) in two-channel mode when using the RX22-4, RX12-4 or RX16 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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