

Courtrooms • Conferences • Houses of Worship • Universities • Cinema

# IR T2

## Infrared Transmitter



The IR T2 infrared transmitter ensures participants in your conference room, courtroom, classroom or other mid-sized venue receive direct, clear communication of your message without sacrificing security. The sleek and stylish IR T2 is designed to maximize coverage area **up to 18,000 square feet\* (1672 m<sup>2</sup>)** in single-channel mode when using the RX22-4 receiver. Mounting bracket and international power supply are included. 5-year warranty.

**System includes:**

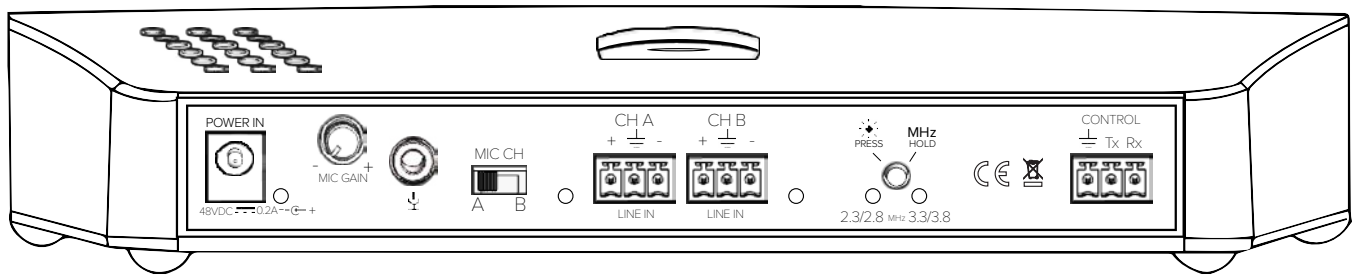
- (1) IR T2 infrared transmitter
- (1) BKT 024 wall / ceiling mounting bracket
- (1) TFP 057 (or TFP 061 with certain systems) international power supply with line cord

*\*Operating range varies based on receiver used. Reference user manuals or contact TechBlue at [techblue@williamsav.com](mailto:techblue@williamsav.com) for specific coverage information.*

# IR T2 Infrared Transmitter

## IR T2 Specifications

<b>Dimensions, Weight:</b>	9.0" W (229 mm) x 3.8" D (97 mm) x 1.4" H (36 mm), 0.84 lb. (0.38 kg)
<b>Color:</b>	Black
<b>Power Supply:</b>	TFP 057 (or TFP 061 with certain systems) Desktop style international certified power supply with IEC line cord, 100-240 VAC input, 50-60 Hz, 18 W; 48 VDC output
<b>DC Power Input:</b>	2.1 mm ID barrel connector, 48 VDC, 0.2A, center positive
<b>Power Indicator:</b>	Green LED
<b>Sleep/Power Save Mode:</b>	Shuts off carrier when no audio is present for 12 minutes
<b>Modulation:</b>	FM Wideband, $\pm 50$ kHz deviation max, 50 $\mu$ S pre-emphasis
<b>Emitter IR Power:</b>	0.7 W
<b>Baseband Frequencies:</b>	2.3, 2.8, 3.3, 3.8 MHz
<b>Channels:</b>	Indicators: Yellow LEDs indicate whether 2.3/2.8 MHz or 3.3/3.8 MHz baseband frequencies are selected
<b>Coverage Area:</b>	Up to 18,000 sq. ft (1,673 sq. m) in single-channel mode with the RX22-4 receiver
<b>Microphone input:</b>	3.5 mm, stereo jack with signal and bias connected to tip, electret microphone compatible (6 VDC bias supply with 2.7 k ohm series resistor)
<b>Microphone gain adjust:</b>	Rotary 10 dB range
<b>Microphone channel switch:</b>	Selects microphone input to Ch. A or Ch. B
<b>Audio Inputs / Controls:</b>	Line inputs: Phoenix style connector jack for Ch A and Ch B accept line level, balanced or unbalanced audio
<b>Audio indicators:</b>	One yellow LED per channel. Lights up and stay on steady with minimum audio level.
<b>Indicators On/Off:</b>	Momentary contact switch turns on/off indicator lights
<b>Frequency Selection:</b>	Press and hold momentary contact switch to change carrier frequency group.
<b>Signal-to-Noise Ratio:</b>	70 dB (line input)
<b>Frequency Response:</b>	95 Hz to 17.6 kHz, -3 dB re 1 kHz (line inputs) 125 Hz to 17.0 kHz, -3 dB re 1 kHz (microphone input)
<b>Total Harmonic Distortion:</b>	<1% (1 kHz, nominal deviation, line or microphone input)
<b>Control/Monitoring:</b>	3-wire RS-232 bus, standard ASCII commands/replies, 115200 Baud rate (8N1). See the IR T2 Programmers Guide for more information.
<b>Operating Requirements:</b>	32°-122°F (0-50°C)
<b>Mounting Kit:</b>	Wall or Ceiling mount: BKT 024 Omnidirectional mount
<b>Warranty:</b>	5 Years
<b>Approvals:</b>	CE, FCC, Industry Canada, WEEE, RoHS, CB Scheme, RCM, PSE
<b>Compatible Receivers:</b>	WIR RX22-4, WIR RX18, IR R1



# IR T2

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## Architectural Engineering Specs

### IR T2

The Williams Sound infrared transmitter shall consist of an all in one modulator and emitter operating on 2.3 MHz and/or 2.8 MHz (or 3.3 and/or 3.8 MHz) broadband frequency. The carrier frequency shall use 50 kHz deviation and 50  $\mu$ S pre-emphasis.

The transmitter will operate in 2 channel mode on broadband frequencies 2.3 and 2.8 or on 3.3 and 3.8 MHz.

The transmitter will operate in single channel mode on broadband frequency 2.3, 2.8, 3.3, or 3.8 MHz.

The transmitter shall have coverage up to 18,000 sq ft (1672  $m^2$ ) with the WIR RX22-4 receiver in single-channel mode.

The transmitter shall be housed in a heavy-duty black plastic enclosure with a metal plate base, and a durable infra-red transparent front lens. It shall be convection cooled without fans. The Transmitter includes an omni-directional mounting bracket for various permanent installations.

The transmitter shall have a line level Phoenix style connector input for each of the channels. Each channel shall have an audio input level LED. There shall be a single 3.5 mm microphone input with gain control. The mic input shall have a channel selector switch.

The transmitter shall have a switch to turn off all indicator LED's if pressed, and change the carrier frequency set if pressed and held.

The transmitter shall be powered by a 48 VDC universal power supply, 50-60 Hz, 100-240 VAC input, 18 W.

The transmitter shall have RS-232 monitoring and control available for third party controllers.

The transmitter shall be covered by a five-year parts and labor warranty, 90 days on accessories.

The transmitter operating at 2.3 and/or 2.8 (or 3.3 and/or 3.8 MHz) shall be the Williams Sound model IR T2.

**NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!**

#### Domestic Sales

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