

# WIR TX925, WIR SYS 1

## Two-Channel Infrared Listening Systems

### USER MANUAL

Emitter Model WIR TX9 DC  
Modulator Model MOD 232  
Optional Receiver Models WIR RX18, WIR RX22-4



WIR TX9 DC EMITTER

MOD 232 MODULATOR



WIR RX18 RECEIVER



WIR RX22-4 RECEIVER

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## System Overview

The Williams Sound SoundPlus® Infrared Listening System consists of a MOD 232 Modulator(s) and one or more TX9 Emitters which use invisible infrared (IR) light to broadcast speech or music to wireless infrared receivers.

The system is designed to transmit high quality audio for hearing assistance and language translation applications. Because the system uses infrared light for transmission, it is not affected by interference from radio equipment and does not interfere with radio equipment. No FCC license or radio approval is required.

The system can be used with microphones as a stand-alone system, or can be connected to other sound equipment. Infrared systems generally cannot be used in direct sunlight because of sunlight's large amount of interfering infrared light.

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**NOTICE:** A plasma monitor can degrade the audio quality of the SoundPlus® Infrared Listening System.

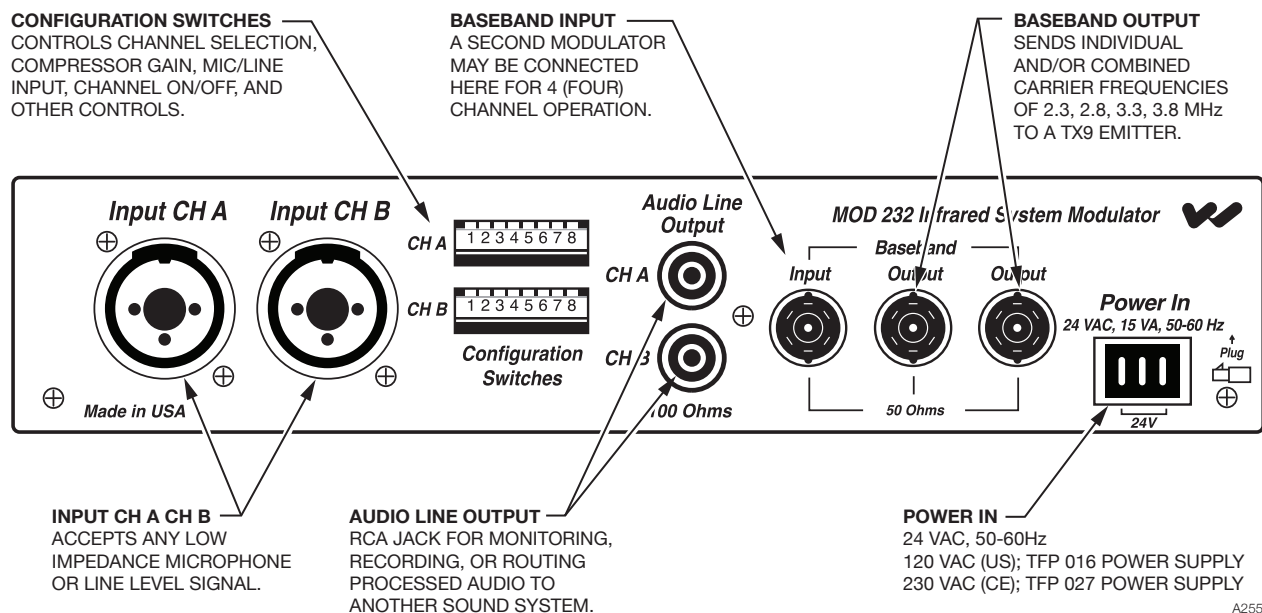
## MOD 232 Modulator Setup

### Determine Location

The modulator is usually located with the sound system amplifier or mixer for easy access to an audio input signal. For portable systems, the modulator can be placed near the emitter or in another convenient location. Infrared Stand Kit SS-6 is available for portable systems.

### Wiring and Connections

#### MOD 232 (Rear View)



## Power Connection for U.S. Application

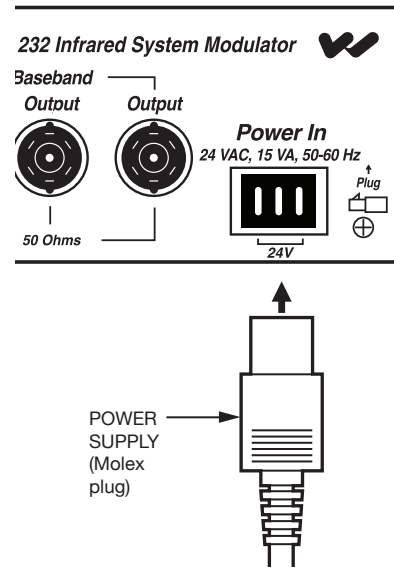
1. Connect the TFP 016 power supply to the 3-pin Molex connector located on the rear of the MOD 232.

## For Applications Outside The U.S. Requiring 240 VAC Mains Supply:

Use the transformer power supply, model TFP 027. Secondary specifications: 24 VAC, 35 VA, 50/60 Hz.

2. Plug the power supply into the AC outlet.

### Power Connection



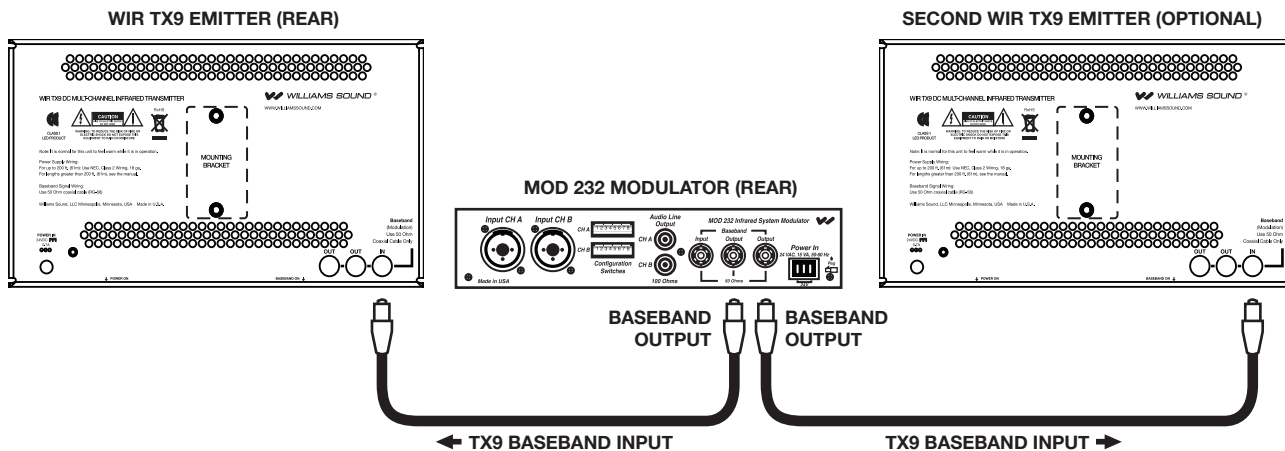
## Baseband Cable Connection

The MOD 232 can directly drive one or two emitters. TX9 DC emitters repeat the baseband signal, so any number of emitters can be used. The modulator outputs CANNOT be split with CATV splitters.

Determine the length of RG-58 cable needed to reach from the TX9 DC Emitter to the Modulator unit. Install BNC connectors to each end of the cable.

For two-channel operation, only one MOD 232 is required: Connect the coaxial cable to one of the Baseband Output jacks on the rear of the MOD 232. The other end of the coaxial cable connects to the Baseband Input jack of the TX9 DC Emitter.

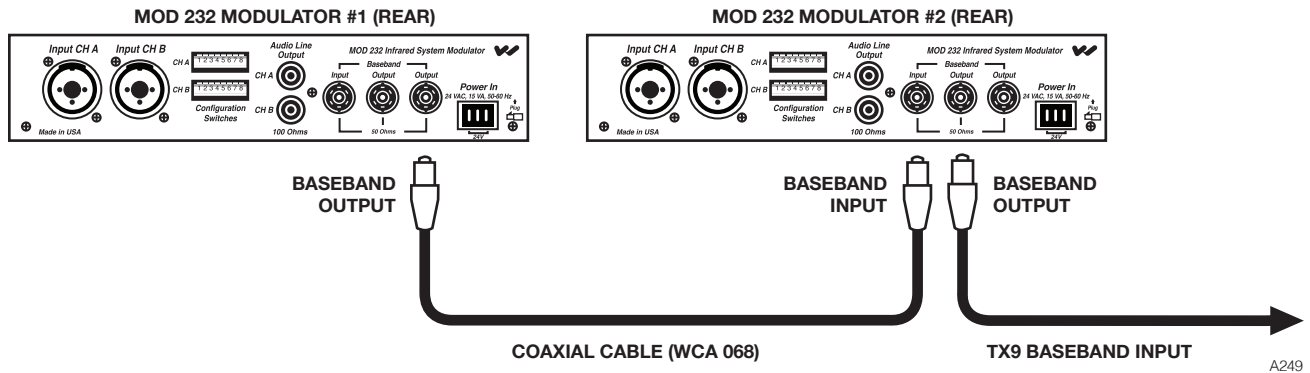
### Baseband Connection, Two Channel Operation



Connect to the TX9 DC using RG-58 cable and BNC connectors. The MOD 232 has two baseband output jacks to simplify connections when multiple emitters are used.

To setup a system for four-channel operation, two MOD 232 Modulators are required. Link the two Modulator units together as shown. Connect the baseband output from the second modulator in the chain to the TX9 DC emitter(s) baseband input connector.

## Baseband Connection, Four Channel Operation



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**IMPORTANT: Each channel must be set to a different frequency!**

## Audio Connection

### Microphone Input:

With the modulator DIP switches set for microphone input, the 3-pin XLR jack accepts balanced microphones. Power for condenser microphones can be selected by DIP switch. The minimum input level is 100  $\mu$ V and the maximum level is 90 mV.

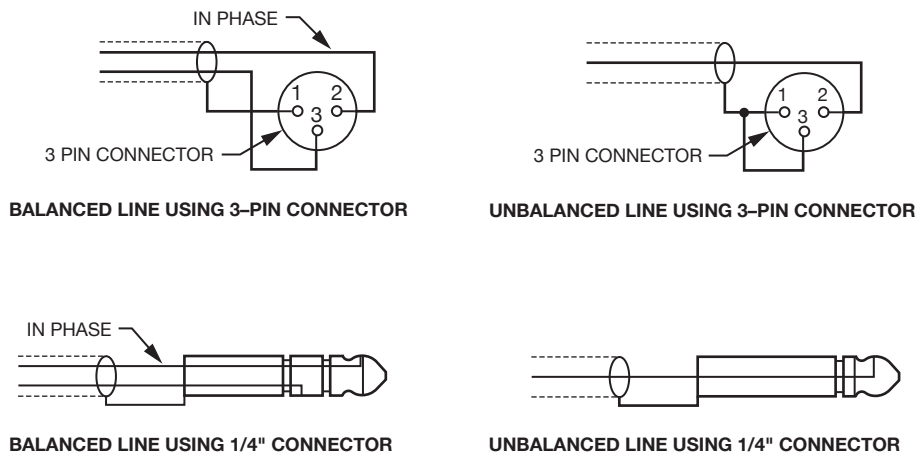
### XLR Line-Level Input:

With the modulator DIP switches set for line-level input, the 3-pin XLR jack accepts balanced line-level audio inputs. The minimum input level is 21 mV and the maximum level is 10 V.

### 1/4" TRS Line-Level Input:

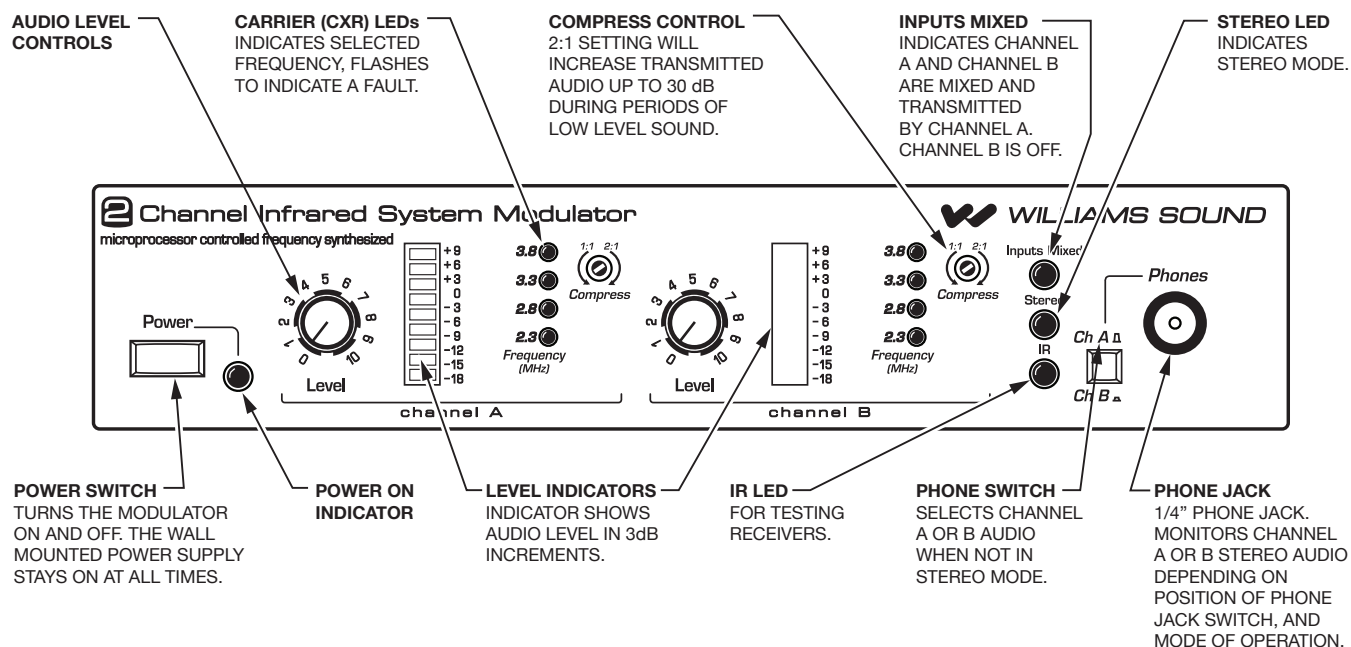
The 1/4" Tip/Ring/Sleeve (TRS) jack can accept only a balanced or unbalanced line-level input. A 25 V, 70 V, or 100 V speaker line can be connected to the balanced line input using an appropriate attenuator. "T" pads made with resistors yield better fidelity than speaker matching transformers.

## Audio Connection



## Features and Controls

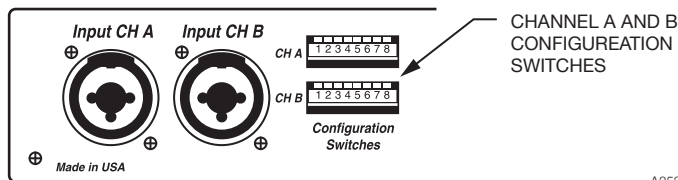
### Features and Controls (MOD 232 Rear)



## Configuration Settings

The configuration chart (next page) illustrates how to configure your system using the DIP switches located on the back of the MOD 232 Modulator. This chart is also printed on top of the MOD 232 Modulator unit for quick reference.

### Configuration DIP Switches



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**DIP Switch Configuration Chart**

SWITCH SETTINGS		CHANNEL A								CHANNEL B							
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
<b>COMPRESSOR GAIN</b> <small>SETS MAXIMUM AVAILABLE COMPRESSOR GAIN</small>	<b>MAXIMUM</b>	↓								↓							
	<b>MODERATE</b>	↑								↑							
<b>MIC/LINE INPUT</b> <small>LINE ALWAYS ON 1/4 INCH MIC OR LINE ON 3 PIN</small>	<b>LINE</b>		↓								↓						
	<b>MIC</b>		↑								↑						
<b>MICROPHONE SIMPLEX POWER</b> <small>15 VOLTS PER DIN 45596 NOT AVAILABLE IN LINE INPUT MODE</small>	<b>OFF</b>			↓								↓					
	<b>ON</b>			↑								↑					
<b>CARRIER FREQUENCY</b>  <small>DO NOT SET BOTH CHANNELS TO THE SAME FREQUENCY</small>	<b>3.800 MHz</b>				↑	↑							↑	↑			
	<b>3.300 MHz</b>				↓	↓							↓	↓			
	<b>2.800 MHz</b>				↑	↑							↑	↑			
	<b>2.300 MHz</b>				↓	↓							↓	↓			
<b>CHANNEL ENABLE</b> <small>TURN'S CHANNEL OFF WHEN DISABLED</small>	<b>ENABLED</b>						↓								↓		
	<b>DISABLED</b>						↑								↑		
<b>MIX INPUTS</b> <small>AVAILABLE ONLY IN ONE CHANNEL OPERATION</small>	<b>NOT MIXED</b>							↓									
	<b>MIXED</b>							↑									
<b>2 CHANNEL/STEREO</b> <small>IN STEREO MODE, CHANNEL A COMPRESSION SETTING CONTROLS BOTH CHANNELS</small>	<b>NON-STEREO</b>															↓	
	<b>STEREO</b>															↑	
<b>AUTO SHUT-OFF TIMER</b> <small>TURN'S CARRIER(S) OFF AFTER 15 MINUTES OF NO AUDIO</small>	<b>DISABLED</b>								↓								↓
	<b>ENABLED</b>								↑								↑

↑ Arrow up indicates *on* position

↓ Arrow down indicates *off* position

SEE MANUAL FOR COMPLETE DESCRIPTION OF CONFIGURATION SETTINGS

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**IMPORTANT: Channel A and Channel B must be set to different frequencies!****Compressor Gain**

The MOD 232's Compressor Gain is set in "Moderate" mode from the factory. Use this setting for simultaneous interpretation. Be sure that the compress control, located on the front of the MOD 232, is turned fully counter-clockwise. Compression can be added if desired by turning the compress control clockwise.

For hearing assistance applications, the MOD 232's Compressor Gain can be set to "Maximum" mode. For additional compression, use a tuning wand (PLT 005) or small screw driver and gently turn the compress control on the front of the MOD 232 clockwise.

TX9 DC Emitter Setup

## TX9 DC Emitter Setup

### TX9 DC Location and Placement

To determine the best location for the TX9 DC 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. Mount the emitter at least 2 ft (0.61 m) above the audience.

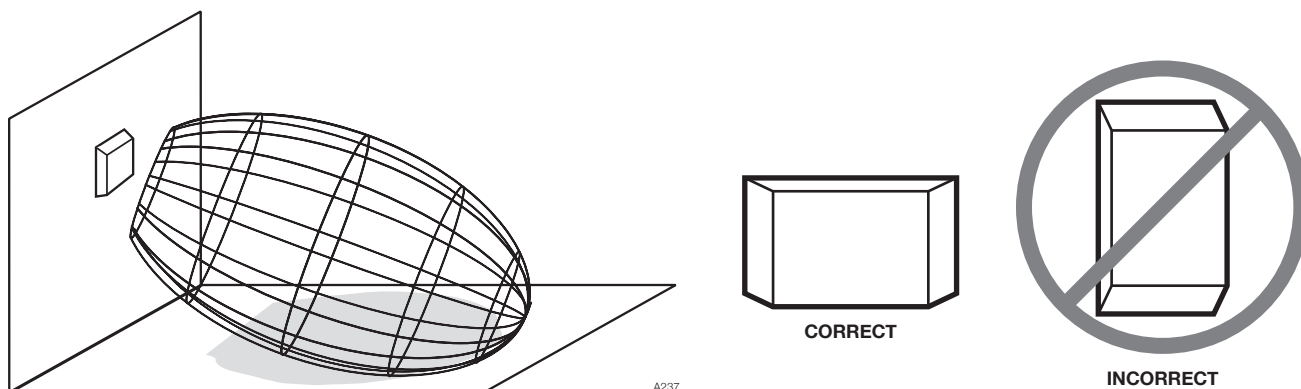
Position the emitter to face in a slightly downward angle - that will increase the "throw" of the infrared beam. Infrared light reflects off most surfaces and scatters, increasing the coverage area. Rough surfaces tend to absorb infrared light, minimizing reflections, and limiting coverage to the direct illumination. Remember: opaque objects block infrared light. Thus, emitters cannot be concealed behind opaque walls, curtains, etc.

The emitter front red plastic lens must NOT be painted. Neither should emitters be used in areas of extreme high or low temperature, humidity, or chemical environments.

The TX9 DC Infrared Emitter should not be installed where there is a lot of direct sunlight, which can create infrared interference.

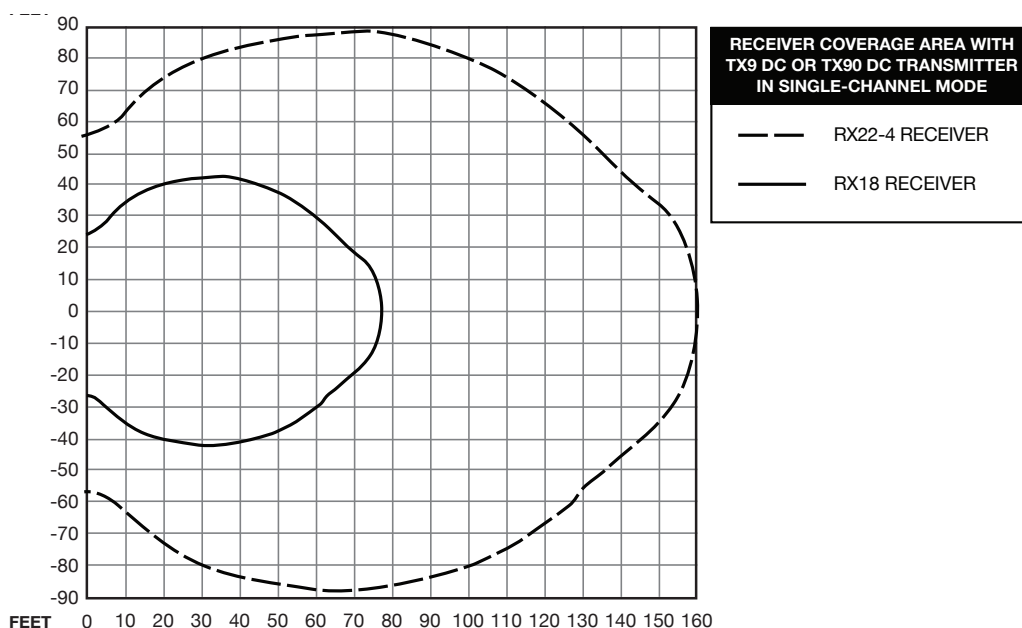
### 3-Dimensional Foot Pattern

When pointing the emitter, be sure to keep the long dimension horizontal.



## Coverage Area

### Maximum Range when using the RX22-4 or RX18 receiver

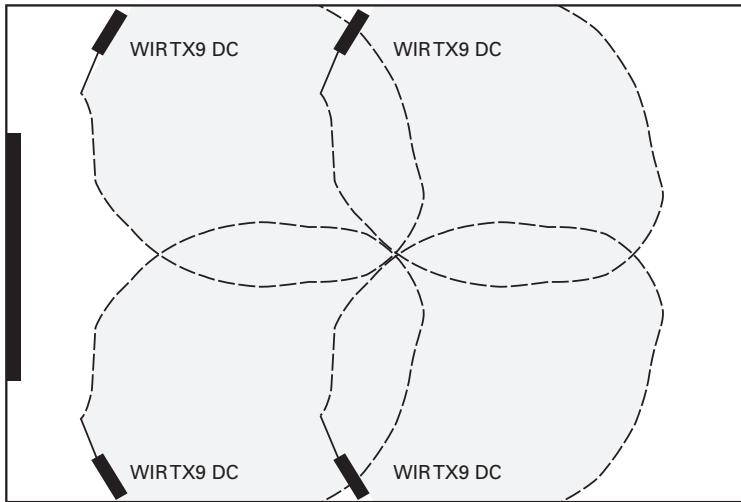




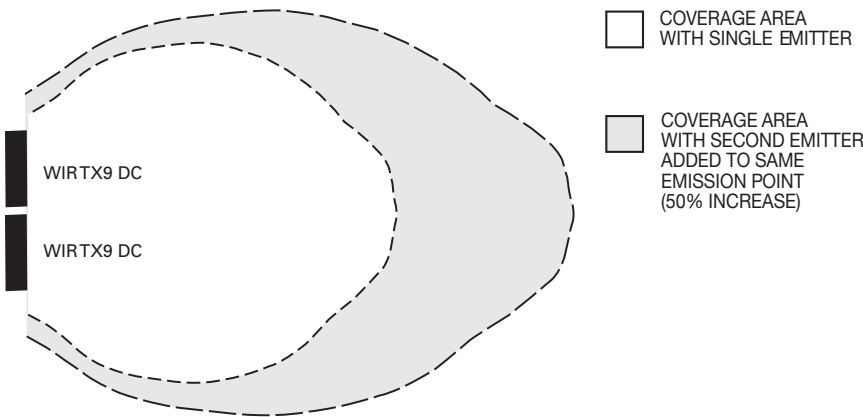
These patterns are the direct radiation pattern. The infrared radiation does not drop to zero outside the illustrated patterns; it decreases. It still may be useable at a greater distance, depending on the receiver sensitivity and the reflective characteristics of the room. Reflections of the infrared light from walls, ceilings, and floors may change these patterns.

## Multiple Emitters Installed to Maximize Coverage

Overlapping Illumination Patterns to Cover Larger Listening Areas



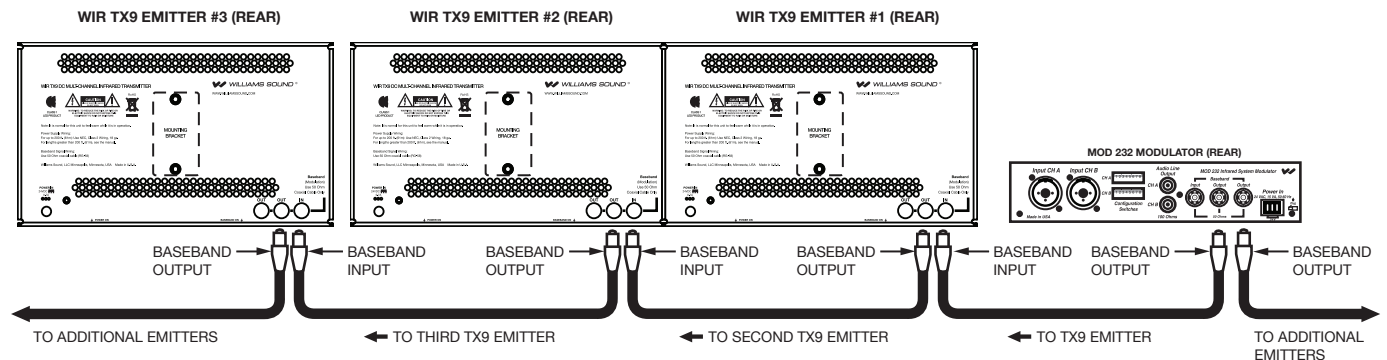
### Single Coverage Pattern with one or two emitters



### Connecting Multiple TX9 DC Emitters

An unlimited number of WIR TX9 DC emitters can be daisy-chained together to maximize the coverage area.

**Each emitter needs its own power supply and cannot share a power supply with a modulator or another emitter.**



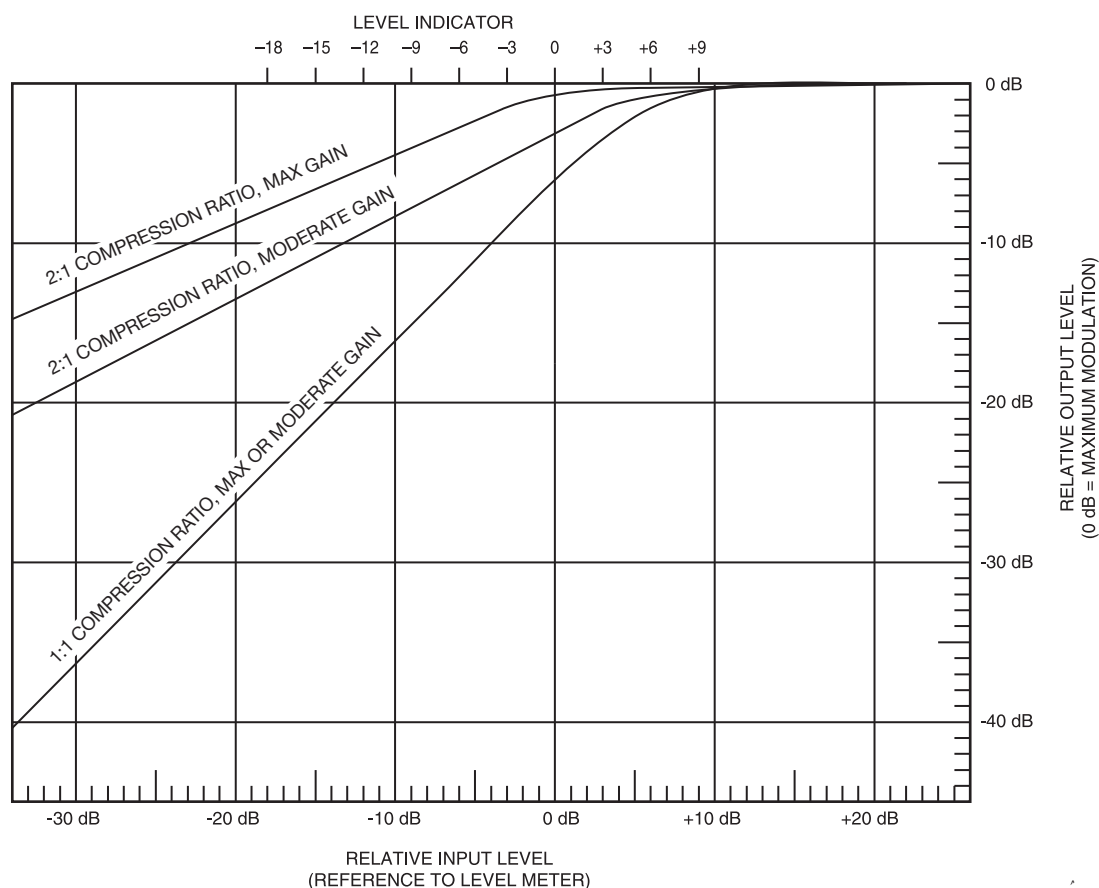
## Compressor Gain

The MOD 232's Compressor Gain is set in "Moderate" mode from the factory. Use this setting for simultaneous interpretation. Be sure that the compress pot control, located on the front of the MOD 232, is turned fully counter-clockwise. Compression can be added if desired by turning the compress pot control clockwise.

For hearing assistance applications, the MOD 232's Compressor Gain can be set to "Maximum" mode. For additional compression, use a tuning wand (PLT 005) or small screw driver and gently turn the compress pot on the front of the MOD 232 clockwise.

The difference between "Moderate" and "Maximum" Compressor Gain is illustrated below:

**Compressor Gain Chart**

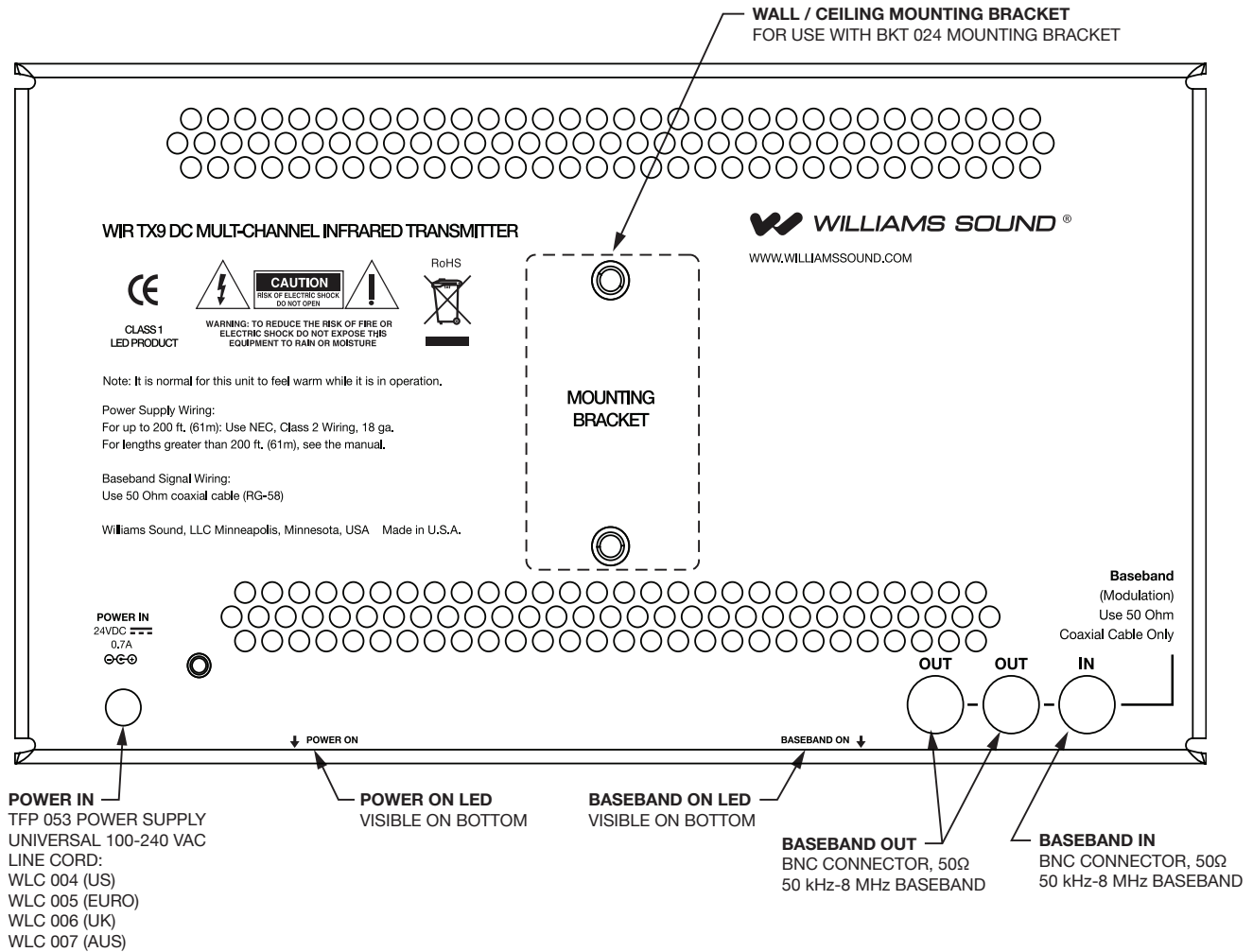


To setup the MOD 232 for "Moderate" Compressor Gain: Place switch 1 in the **↑** "on" position.

To setup the MOD 232 for "Maximum" Compressor Gain: Place switch 1 in the **↓** "off" position.

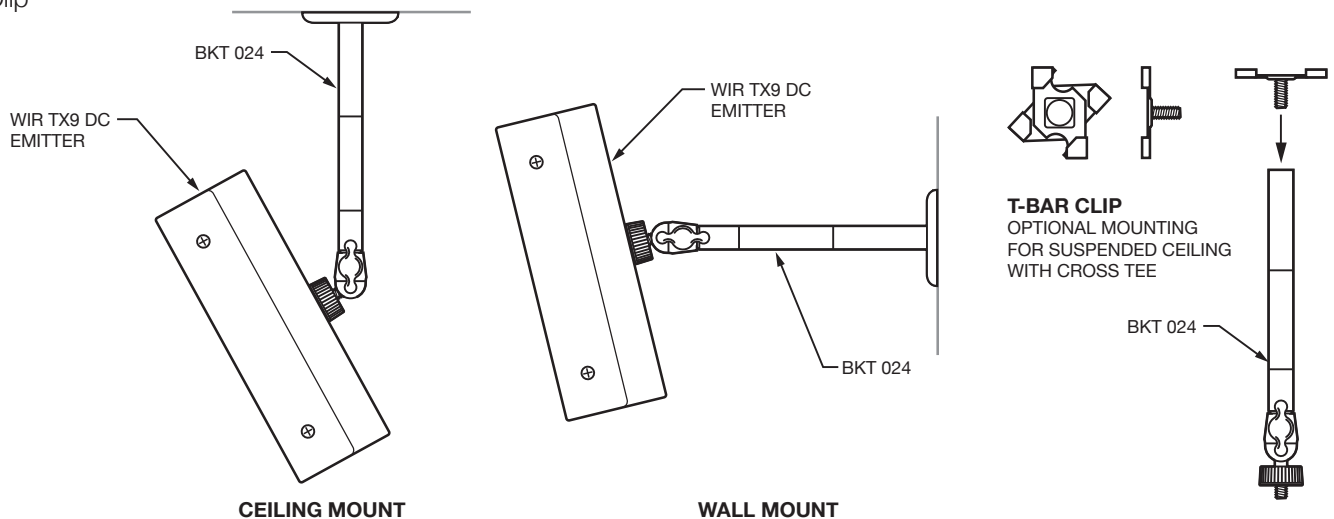
# WIR TX9 DC Features and Controls

## TX9 Emitter Rear View



## Mounting the WIR TX9 DC

Mounting the WIR TX9 DC to a wall, ceiling, or suspended ceiling with the BKT 024 using a Mounting Plate or a T-Bar Clip



## Receiver Safety Information

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### HEARING SAFETY

#### CAUTION!

This product is designed to amplify sounds to a high volume level which could potentially cause hearing damage if used improperly. To protect your hearing and the hearing of others:

3. Turn the volume down before putting on the earphone or headphone, and then adjust the volume to a comfortable level.
4. Set the volume level at the minimum setting that you need to hear.
5. If you experience feedback (a squealing or howling sound), reduce the volume setting and move the microphone away from the earphone or headphone.
6. Do not allow children or other unauthorized persons to have access to this product.

### BATTERY SAFETY

#### CAUTION!

This product is supplied with disposable Alkaline batteries. Do not attempt to recharge disposable batteries, which may explode, release dangerous chemicals, cause burns, or other serious harm to the user or product.

### MEDICAL DEVICE SAFETY

#### CAUTION!

1. Before using this product with an implantable or other medical device, consult your physician or the manufacturer of your implantable or other medical device.
2. If you have a pacemaker or other medical device, make sure that you are using this product in accordance with safety guidelines established by your physician or the implantable device manufacturer.

## Recycling Instructions

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#### **Battery Safety and Disposal**

Help Williams Sound protect the environment! Please take time to dispose of your equipment properly. Please do NOT dispose of batteries in the household trash. Please take the batteries to a retail or community collection point for recycling.



#### **Product Recycling:**

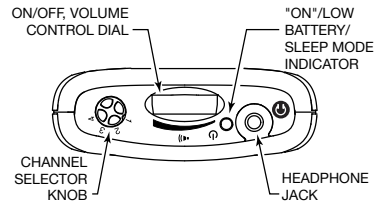
Please do NOT dispose of your Williams Sound equipment in the household trash. Please take the equipment to an electronics recycling center or return the product to the factory for proper disposal.

## Infrared Receivers

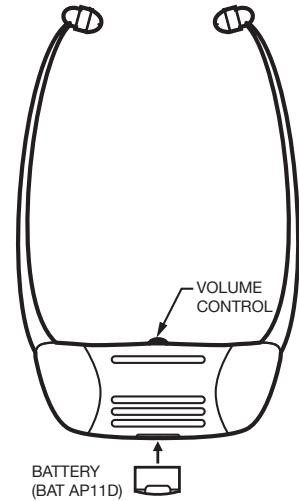
### WIR RX22-4 Four Channel Receiver



Channel	Frequency
1	2.3 MHz
2	2.8 MHz
3	3.3 MHz
4	3.8 MHz



### WIR RX18 Under-the-chin Receiver



## Specifications - WIR TX9 DC

<b>Dimensions, Weight:</b>	11.25" W x 6.25" H x 2.125" D (28.6 cm x 15.9 cm x 5.4 cm), 1.8 lbs (0.8 kg)
<b>Color:</b>	Black with white legends, black acrylic lens (optional white enclosure available)
<b>Power Supply:</b>	Desktop-style, universal power supply. Input: 100-240 VAC, 50/60 Hz, 0.6A. Line cord specified by country of use. Output: 24 VDC, 1.0 A, 25W. Barrel connector. 50 ft DC power supply extension cable available (WCA 123).
<b>Carrier Frequency:</b>	Accommodates baseband sub carriers from 2.3-3.8 MHz
<b>Emitter IR Power:</b>	3.5 watts
<b>Coverage Area:</b>	30,000 sq. ft. (2,787 sq. m) in single channel mode when using the RX22-4 Receiver 19,000 sq. ft (1,765 sq. m) in two channel mode when using the RX22-4 Receiver 11,000 sq. ft (1,022 sq. m) in four channel mode when using the RX22-4 Receiver 3,350 sq. ft (311 sq. m) in single channel mode when using the RX18 Receiver
<b>Baseband Indicator:</b>	Red LED
<b>Power Indicator:</b>	Red LED
<b>Auto Carrier Shut-Off:</b>	Turns off LEDs when no baseband is present
<b>Power Input:</b>	24 VDC, 0.8 A
<b>Baseband Input:</b>	BNC, 50 $\Omega$ , for use with MOD 232, TX 90, TX 90 DC, TX 9 and TX 9 DC
<b>Baseband Output:</b>	BNC, 50 $\Omega$ , for use with TX 9 or TX 9 DC only
<b>Baseband Cable:</b>	RG 58 Coax, BNC Connectors, maximum 1000 ft (300 m) length.
<b>Operating Requirements:</b>	32-122 °F (0-50 °C), ambient temperature, non-condensing, non-corrosive atmosphere
<b>Mounting Kits:</b>	Wall or Ceiling Mount: BKT 024 Omnidirectional mount; Optional: Tripod Stands: SS-11 or SS-6
<b>Warranty:</b>	5 years on emitter (90 days on accessories)
<b>Approvals:</b>	CE, FCC, RoHS, WEEE
<b>Compatible Receivers:</b>	WIR RX22-4 Four-Channel Receiver WIR RX18 Two-Channel Receiver
<b>Notes:</b>	<b>Specifications: Single end input, volume &amp; tone controls at mid point, 1 kHz, "Music" Preset</b>

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## Specifications - MOD 232

<b>Size, Weight:</b>	8.5" W x 8.2" D x 1.7" H (21.5 cm x 20.8 cm x 4.4 cm), 3.1lbs. (1.5 kg)
<b>Color:</b>	Black epoxy paint with white legends
<b>Rack Mount:</b>	1/2 rack space wide, 1 rack space high, one or two modulators may be mounted in a single IEC rack space with RPK 005 (single) or RPK 006 (double) Rack Mount Kits
<b>Power Supply:</b>	Wall Transformer, 24VAC, 50-60 Hz, 15VA North America: TFP 016, UL/CSA Europe: TFP 027-01, 2-pin Schuko plug, CE UK: TFP 027-02, 3-pin UK plug, CE
<b>Modulation:</b>	FM Wideband, +50kHz deviation, 50uS pre-emphasis
<b>Carrier Frequency:</b>	Channel A: Selectable, 2.3/2.8/3.3/3.8MHz, Channel B: Selectable, 2.3/2.8/3.3/3.8MHz
<b>Signal to Noise Ratio:</b>	More than 60dB
<b>Frequency Response:</b>	30 to 16,000Hz, +1 dB, -3dB, electrical response
<b>Total Harmonic Distortion:</b>	Less than 2%, electrical response
<b>Audio Processing:</b>	Compression (slope) adjustable from 1:1 to 2:1 Switchable compression gain: Moderate: 16dB. Max: 33dB
<b>Auto Carrier Shut-Off:</b>	15 minute timer shuts off carrier when no audio is present (can be disabled)
<b>Power Switch:</b>	Two-position push button, ON/OFF
<b>Power Indicator:</b>	Green LED
<b>Audio Level Controls:</b>	CHA and CHB Input Level, rotary knobs
<b>Audio Indicators:</b>	CHA and CHB Audio Level, 10-segment LED's
<b>Carrier LEDs:</b>	4 green LED carrier "on" indicators per channel (indicates frequency, malfunctions)
<b>Compress Control:</b>	1:1 or 2.0:1
<b>Input Mix LED:</b>	Indicates inputs A and B audio are mixed and transmitted by CHA. CHB off
<b>Stereo LED:</b>	Indicates stereo mode
<b>Phones Switch:</b>	Selects CH1 or CH2 for phones when not in stereo mode
<b>Phones Output:</b>	1/4" TRS headphone jack. Accepts stereo, mono, and any impedance phones.
<b>Infrared Test LED:</b>	IR LED for receiver testing, monitoring, and audio signal testing.
<b>Power Input:</b>	3-Pin Molex, 24VAC, 50-60Hz, 15 VA
<b>Audio Input Jack:</b>	CHA and CHB combination XLR/TRS jack Mic Level: Balanced, Lo-Z, 100µV min. to 90 mV max., 1mV nominal, 3kΩ input impedance, supplies switchable simplex power per DIN 45596 for condenser mics Line Level: Balanced or unbalanced, 21mV min. to 10V max., 212mV nominal, 100kΩ
<b>Audio Line Output Jacks:</b>	RCA Jack, CHA and CHB, 500mV, unbalanced, 100Ω source impedance, load impedance must be greater than 1kΩ
<b>Configuration Switches:</b>	CHA and CHB 8-position DIP switch, selects Mic/Line input, compressor gain, simplex power, discrete or mixed inputs, carrier frequency, channel disable, auto shut-off timer.
<b>Baseband Input Jack:</b>	BNC, allows mixing with additional MOD 232 Modulator (4CH operation), 100mV, 50Ω input impedance, use with MOD 232, BNC, RG-58 Cable
<b>Baseband Output Jack:</b>	Two BNC jacks carry baseband signal, 100mV/channel, 50Ω source impedance, for use with WIR TX9 or MOD 232 only
<b>Approvals:</b>	CE, FCC, RoHS, WEEE
<b>Operating requirements:</b>	0-50° C ambient temperature, non-condensing, non-corrosive atmosphere
<b>Warranty:</b>	5 years on Modulator, 90 days on accessories

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Visit our website for the latest specifications and publications: [www.williamssound.com](http://www.williamssound.com)

## Troubleshooting

### TX9 DC Indicator Light Is Not On.

- Make sure the power supply is plugged into the emitter.
- Make sure the electrical outlet is on.
- Make sure the power supply is working.

### Only TX9 DC's Power Indicator LED Comes On.

- Make sure the MOD 232 is on.
- Make sure the baseband cable is connected properly. See page 5, Figures 3 & 4.
- Check to see if the carrier light on the MOD 232 is on.
- Make sure an audio signal is being sent to the MOD 232.

### No Sound Through Receivers.

- If some of the receivers work but others don't, check for bad batteries or earphones on the receivers that aren't working.
- If none of the receivers work, check to see if the power and baseband cable are connected to the emitter and that the TX9 DC Power and Baseband Present Indicator lights are ON.
- Check to see if the modulator is connected properly to the sound system. The Frequency Indicator should be lit and there should be activity on the MOD 232 Level Indicators.
- Make sure the "eye" is not covered up on the receiver. There must be clear line of sight between the receiver eye and the emitter panel.

### Sound Through The Receivers Is Weak And Noisy.

- Make sure each channel is set to a different frequency on the MOD 232 modulator. Listen to the audio signal through the Phones jack of the MOD 232 modulator. You can also hold a receiver in front of the Infrared Test LED on the front of the MOD 232 modulator and listen to the audio signal. If the signal is weak and noisy here, check the Input Level switch and Input Level Control settings. Increase the input signal level from the sound system by turning up the mixer control. If the signal sounds okay, you may need to re-position the emitter panels or add additional panels.

### Buzzing Or Humming Noise In Sound System.

- Check for ground loops or noise on the input signal. Call your Authorized Williams Sound dealer or representative.

## Limited Warranty

Williams Sound products are engineered, designed, and manufactured under carefully controlled conditions to provide you with many years of reliable service.

Williams Sound warrants the WIR TX925 or WIR SYS 1 Infrared Listening System against defects in materials and workmanship for FIVE (5) years. During the first five years from the purchase date, we will promptly repair or replace the WIR TX925 or WIR SYS 1 Infrared Listening System.

*Microphones, earphones, headphones, batteries, cables, carry cases, and all other accessory products carry a 90-day warranty. Chargers carry a one year warranty.*

WILLIAMS SOUND HAS NO CONTROL OVER THE CONDITIONS UNDER WHICH THIS PRODUCT IS USED. WILLIAMS SOUND, THEREFORE, DISCLAIMS ALL WARRANTIES NOT SET FORTH ABOVE, BOTH EXPRESS AND IMPLIED, WITH RESPECT TO THE WIR TX 925 or WIR SYS 1 INFRARED LISTENING SYSTEM, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. WILLIAMS SOUND SHALL NOT BE LIABLE TO ANY PERSON OR ENTITY FOR ANY MEDICAL EXPENSES OR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY ANY USE, DEFECT, FAILURE OR MALFUNCTIONING OF THE PRODUCT, WHETHER A CLAIM FOR SUCH DAMAGES IS BASED UPON WARRANTY, CONTRACT, TORT OR OTHERWISE. THE SOLE REMEDY FOR ANY DEFECT, FAILURE OR MALFUNCTION OF THE PRODUCT IS REPLACEMENT OF THE PRODUCT. NO PERSON HAS ANY AUTHORITY TO BIND WILLIAMS SOUND TO ANY REPRESENTATION OR WARRANTY WITH RESPECT TO THE WIR TX 925 or WIR SYS 1 INFRARED LISTENING SYSTEMS. UNAUTHORIZED REPAIRS OR MODIFICATIONS WILL VOID THE WARRANTY.

The exclusions and limitations set out above are not intended to, and should not be construed so as to contravene mandatory provisions of applicable law. If any part or term of this Disclaimer of Warranty is held to be illegal, unenforceable, or in conflict with applicable law by a court of competent jurisdiction, the validity of the remaining portions of this Disclaimer of Warranty shall not be affected, and all rights and obligations shall be construed and enforced as if this Limited Warranty did not contain the particular part or term held to be invalid.

If you experience difficulty with your system, call Toll-Free for customer Assistance: **1-800-843-3544 (U.S.A.) or +1 952 943 2252 (Outside the U.S.A.)**

Your warranty becomes effective the date you purchase your system. Your returned warranty card is our way of knowing when your warranty begins.

Please take a moment to fill it out and mail the enclosed card. You may also register your product online: [www.williamsound.com/registration.aspx](http://www.williamsound.com/registration.aspx).

This information will help us serve you better in the future. Thank you!



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