



- Mains On/Off switch and indicator
- Tri-colour LED signal level indicators on each channel
- Gain control for each channel
- Illuminated on/off button for each channel
- Recording output
- Two RF outputs to facilitate zoning
- Audio signal monitoring facility
- IR signal monitoring provision

The Integrated Infrared Transmitter is available in 4 or 8 channel versions. The text and illustrations here describe the 8-channel version.

The TXR-8X is an eight-channel integrated infrared modulator, designed to be used in conjunction with the Auditel EP series of high power emitter panels, and the IRX series of receivers. Principal applications will be for use in multi-language simultaneous interpretation and tour guide systems.

The unit is housed in a 19" 1U steel chassis, suitable for rack mounting. An optional cover is available to make the unit suitable for free-standing applications where required.

The channel input signals will normally be derived from an interpretation system (e.g. from an Auditel M12 Interpretation Control Unit). A multi-way connector is provided which allows all the channel input connections to be made via one single connector.

The TXR-8X is equipped with level controls and monitoring facilities. A SIN-6/12 Interface Unit is therefore not normally required (although it may be incorporated for other reasons).

The channel frequencies are derived via phase-locked loop frequency synthesisers from quartz crystal references for maximum accuracy and virtually zero drift.

AUDIO INPUTS

The channel inputs are balanced, and are compatible with both balanced and unbalanced sources. They are combined on a single 37-way D-type connector, which is directly compatible with other Auditel Interpretation and Language Distribution equipment. The input sensitivity is nominally -20dBu , but can be factory configured to 0dB where required.

AUDIO OUTPUTS

The Recording Output reproduces the channel inputs in single-ended form suitable for connection to a multi-channel recording system, or "slaving" of additional language distribution equipment. The signals are available on a single 37-way D-type connector. The output level is nominally 0dBu .

RF OUTPUTS

Modulation level is set by a rotary control for each channel. A tri-colour LED indicator allows the correct level to be readily gauged and set.

There is also an illuminated push button switch associated with each channel. This allows unused channels to be disabled in order to make optimum use of the available infrared power.

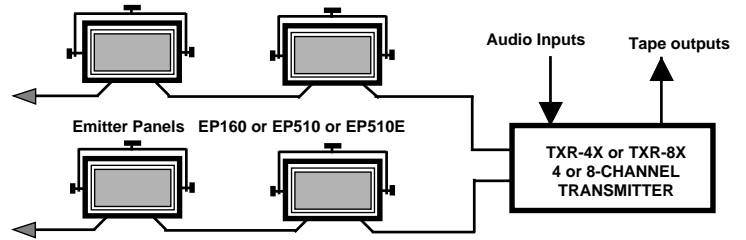
Connections to the emitter panels are via two 50Ω BNC coaxial connectors on the rear panel. This permits the panels to be connected in two zones.

MONITORING

The TXR-8X incorporates monitoring facilities for both the baseband audio, and the modulated IR signals.

The audio monitoring is provided by a rotary channel selector and 6.35mm jack socket on the front panel. The output level is fixed. A suitable headset is the Auditel HS-2 (not included).

The modulated signal can be monitored via an array of IR emitter diodes mounted behind a semi-opaque window on the front panel. The IR radiation can be monitored via a standard delegate receiver to confirm correct operation.



Technical Data

CHANNEL INPUTS

Input Type	Electronically Balanced
Connector	37-way "D-type" (Male)
Input Impedance	100k Ω (Differential)
Sensitivity	-20dBu nom. (0dBu optional)
Signal Regulation	Compressor/Limiter prevents over modulation
Frequency response	100Hz-8kHz
Distortion	<1% @ 1kHz
Pre-emphasis	100_s

RECORD OUTPUTS

O/P Type	Single-Ended
Connector	37-way "D-type" (Female)
Record O/P Level	0dBu nom
Output Impedance	1k Ω nom

RF OUTPUTS

Output Type	Multiple Carrier FM
Number of channels	Four or Eight
Connectors	2x50 Ω BNC
Output Level	1Vp-p
Load Impedance	50 Ω
Channel spacing	40kHz
Carrier frequencies	55kHz - 335kHz (8-ch.)
Deviation	\pm 6kHz nom. \pm 7kHz pk
Carrier Accuracy	\pm 10Hz

GENERAL

Operating Voltage	115/230VAC \pm 10%, 50-60Hz
Power Consumption	40VA max
Dimensions (WxDxH)	485x300x45mm (19"x1U)
Weight	4.1kg

Architects and Engineers specification

The narrow band infrared transmitter shall have four/eight* channels with carrier frequencies from 55kHz to 335kHz and 40kHz channel spacing. The FM modulation characteristics shall be as specified in IEC 764 with pre-emphasis 100 μ sec, nominal deviation \pm 6kHz and peak deviation \pm 7kHz. The input impedance shall be 100k ohms balanced and the input sensitivity shall be 75mV RMS or 750mV RMS (internally set). The front panel shall have a power ON/OFF switch and indicator, a channel selector and headphone socket for audio monitoring, and an emitter diode array for IR monitoring. Each channel shall have an illuminated ON/OFF switch and a rotary modulation control with an associated tri-colour LED level indicator. The rear panel shall have 37-way 'D' type connectors for the audio input and tape recorder output, and there shall be two BNC type output connectors to facilitate zoning of the emitter panels. The output impedance shall be 50 ohms and the output signal level shall be 1V p-p. The transmitter shall be a 19" rack mounting unit with dimensions not exceeding 485 x 300 x 45mm and weight exceeding 4.5kg.

*As appropriate.

We reserve the right to vary the specification without notice in the interest of product improvement



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