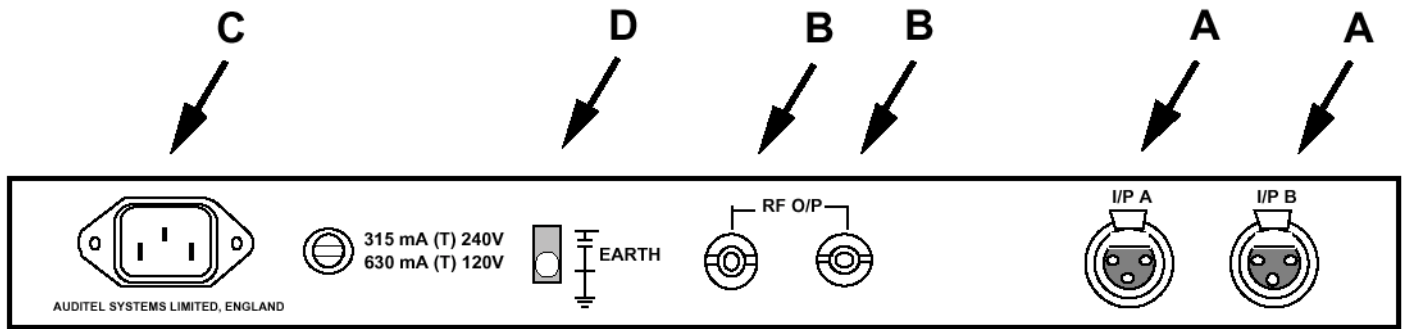


- Single or two
- channel versions
- (95kHz and 250kHz)
- Bargraph level indicators
- Test emitter diode
- Line level inputs

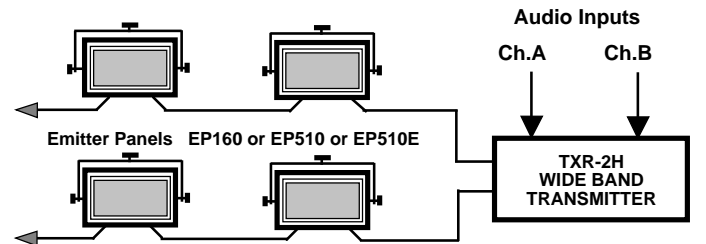
The wide-band infra-red transmitter is available either as a single channel transmitter at 95kHz (type TXR-1H) or as a two channel version with channel frequencies at 95kHz and 250kHz (type TXR-2H). It is used mainly for assisted hearing applications in conjunction with the single channel receiver type IRX-1H or for language distribution in bilingual simultaneous interpretation systems with the two channel (switchable) receiver type IRX-2H. The transmitter is a 19" rack mounting unit with a panel mounted power on/off switch and indicator, and with rotary controls and bargraph indicators for modulation level. The two channel version has a 3-position selector switch to permit single channel operation on either channel separately or on both channels simultaneously. There is also a "test" emitter diode on the front panel which enables the user to adjust the modulation level with the aid of one of the

receivers and/or to verify that the transmitter and/or receiver is operating correctly. The audio input to the transmitter is via an XLR type connector on the rear panel and the input signal level should be 0dB nom. (775mV RMS). However the transmitter can be configured by internal switches to operate with an input signal level of -20dB nom. if required. There is also an "earth lift" switch which can be set to isolate the signal ground from the mains supply earth, whilst leaving the chassis safety earth intact. The wide band transmitter uses the same infra-red emitter panels as are used for the multi-channel narrow band system (ie: EP160, EP510 or EP510E). The RF output from the transmitter is fed to the emitter panels via a BNC type connector on the rear panel and a 50 ohm co-axial cable network. Two BNC connectors are fitted to facilitate zoning of the panels.



Technical Data

Number of channels	one (two for TXR-2H)
Carrier frequencies	95kHz and 250kHz
Modulation	FM
Nominal deviation	±35kHz
Peak deviation	±50kHz
Pre-emphasis	50µsec
Frequency response	50Hz-13kHz (-3dB)
Distortion at 1 kHz	less than 1%
Signal/noise ratio	better than 70dB(A wtg.)
Input sensitivity	750mV RMS or 75mV RMS
Input impedance	10kohms balanced
Output	50 ohms, 1V p-p
Power supply	110/120 - 220/240 Volts 50/60 Hz AC
Dimensions	485 x 45 x 270 mm
Weight	3.5 Kg.



- A 3-WAY XLR TYPE SOCKET (F) (FOR AUDIO INPUTS)
- B CO-AXIAL BNC TYPE SOCKET (OUTPUT TO EMITTER PANELS)
- C 3-WAY CEE22/IEC320 PLUG (A/C MAINS I/P)
- D EARTH LIFT SWITCH

Architects and Engineers specification

The wide band infra-red transmitter shall have a single channel (two channels) with carrier frequency 95kHz (and 250kHz). The FM modulation characteristics shall be as specified in IEC 764 with pre-emphasis 50µsec, nominal deviation ±35kHz and peak deviation ±50kHz. The input impedance shall be 10k ohms balanced and the input sensitivity shall be 750mV RMS or 75mV RMS (switchable). The front panel shall have a rotary modulation switch with an associated 10 segment LED bargraph (one bargraph for each channel), a power ON/OFF switch and indicator and a test emitter diode. (There shall also be an output selector switch for channel A, B, or A+B). The input connectors on the back panel shall be XLR type 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. There shall also be an earth lift switch to isolate the signal ground from the mains supply earth, whilst leaving the chassis safety earth intact. The transmitter shall be a 19" rack mounting unit with dimensions not exceeding 485mm x 45mm x 270mm and weight not exceeding 3.5kg. (TXR-2H two channel version only)

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

