

TVX-225/1

PROFESSIONAL VHF TV TRANSMITTER



- TVX-225/1** is an VHF TV transmitter with high level power output for all VHF TV channels from CH 7-12. It is a single channel unit- please choose desired channel. It has adjustable high power output level from 50 mW- 1 W. The transmitter comes with two 19" rack mount units: exciter and power amplifier 1W. Antenna connector is an BNC type. RF amplifier is temperature and VSWR protected.

| Technical Specifications | |
|-------------------------------|--|
| VISION SPECIFICATIONS | |
| Inputs | 1 video - 1 audio |
| Impedance | 75 ohm |
| Connectors | BNC |
| Return loss | >=28 dB |
| Video | B/W Color |
| Input level | 1 Vpp (manually adjustable) |
| Clamp | Reinsertion of D.C. component and video alignment to black level |
| Modulation limiter | White level clipper |
| Amplitude response | within ± 0.5 dB (from 0 to 5 MHz) (measured at Video processor output) |
| Intermodulation distortion | <=-70 dB (3 tones Vc-5dB, Sc-10dB, Cc-17dB) |
| Differential gain | <=2% |
| Differential phase | <=2° |
| SOUND SPECIFICATIONS | |
| Inputs | N° 1 input in the monophonic version |
| Impedance | 600 ohm balanced |
| Connectors | BNC, RCA |
| Input level | 0 dBm to + 9 dBm (for deviation ± 50 KHz) |
| Frequency deviation check LED | Green LED nominal value; Red LED +2.5 dB; Yellow LED -2.5 dB |
| Preemphasis | 50ms |
| Bandpass | ± 0.5 dB (from 30 Hz to 15 KHz) |

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| Sound intercarrier frequency | obtained with a high stability synthesized oscillator, 2.5 KHz steps from 4.5 MHz to 9MHz |
| Sound 1 | 4.5 MHz (monophonic) |
| Sound 2 | 5.7425 Mhz (stereo or dual sound) |
| Total Harmonic Distortion | <=0.5% (dev.±50 KHz) |
| MODULATION SPECIFICATIONS | |
| Vision modulation | AM negative (A5C) according to the B and G standard of CCIR |
| Vision carrier | 38.9 MHz ± 1 ppm /year (TCXO) External Oscillator input facility |
| Group delay precorrector | Complying with B and G Standard |
| Sound modulation | FM, (F3) deviation ± 50 KHz |
| IF OUTPUT CHARACTERISTICS | |
| Intermediate frequency | composite (vision carrier + sound carriers) |
| Impedance | 50 ohm |
| Connector | BNC |
| Output Return Loss | >=20 dB |
| Vision carrier | from - 6 dBm to + 3 dBm adjustable output level |
| Sound 1 | carrier 33.4 MHz (-13 dB under the Vision carrier) |
| Sound 2 | carrier 33.1575 MHz (-20 dB under the Vision carrier) |
| The two sound sub carriers levels can be independently adjusted | |
| GENERAL SPECIFICATIONS | |
| Power supply | 110 to 264 Vac 48 to 62 Hz |
| Consumption | 240 VA |
| Power supply | D.C. +24 Vdc ± 15% or +15 Vdc ± 0.2V |
| Consumption | 1.8A " 120W |
| Warm up time | 10' |
| Operating temperature | -5°C to +45°C |
| Dimensions | 19" - 1U rack depth: 400 mm |
| Weight 0 | 2 kg |
| Options MS2 | Module for second sound. It permits to generate the second sound intercarrier at 5.7425 MHz 999 |
| RF SPECIFICATIONS | |
| Power output | 2 W (5 W, 35W or 150 W) depends on model |
| Consumption | 3 - 10 A/26 V-28 V |
| Power supply | from D.C. +26 Vdc ± 15% or +15 Vdc ± 0.2V |
| Output connector | N type |
| Input connectors | BNC/ RCA |
| Operating temperature | -5°C to +45°C |