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# TVX-225/20

## PROFESSIONAL VHF TV TRANSMITTER

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TVX-225/20 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- 20 W.

| Technical Specifications      |   |
|-------------------------------|---|
| <b>VISION SPECIFICATIONS</b>  |   |
| Inputs                        | 1 video - 1 audio   |
| Impedance                     | 75 ohm  |
| Connectors                    | BNC   |
| Return loss                   | >=28 dB   |
| Video                         | B/W Colour  |
| 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 $\pm 0.5$ 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°  |
| <b>SOUND SPECIFICATIONS</b>   |   |
| Inputs                        | N° 1 input in the monophonic version  |
| Impedance                     | 600 ohm balanced  |
| Connectors                    | HIROSE  |
| Input level                   | 0 dBm to + 9 dBm (for deviation $\pm 50$ KHz)   |
| Frequency deviation check LED | Green LED nominal value; Red LED +2.5 dB; Yellow LED -2.5 dB                              |
| Preemphasis                   | 50ms  |
| Bandpass                      | $\pm 0.5$ dB (from 30 Hz to 15 KHz)   |
| 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)  |
| <b>MODULATION SPECIFICATIONS</b>                                |   |
| 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   |
| <b>IF OUTPUT CHARACTERISTICS</b>                                |   |
| 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 |   |
| <b>GENERAL SPECIFICATIONS</b>                                   |   |
| Power supply  | from mains 110 to 264 Vac 48 to 62 Hz   |
| Consumption   | 240 VA  |
| Power supply  | from 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  | about Kg. 1   |
| Options MS2   | Module for second sound. It permits to generate the second sound intercarrier at 5.7425 MHz 999 |
| <b>RF SPECIFICATIONS</b>  |   |
| 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   |