

TVX-225/5

PROFESSIONAL VHF TV TRANSMITTER



- TVX-225/5** 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- 5 W. The transmitter comes with two 19" rack mount units: exciter and power amplifier 5W. 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 or 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	$\leq 2\%$
Differential phase	$\leq 2^\circ$

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)

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	- 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	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