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# TVX-806

## PROFESSIONAL TV TRANSMITTER

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TV transmitter TVX-806 has been made for small TV studios and it has 2 W (Model TVX-806/2), 5W (Model TVX-806/5) -( new model) or 35 W (Model TVX-806/35). Fully professional this unit will send a perfect Color picture and sound. Antenna output is N- female type (BNC for TVX-806/2 model). Recommended antenna is Panel type - directional 11 dB gain for all UHF channels from CH 14- 69. Channel selection is internal and it is very simple. The unit is thermal protected and with an VSWR protection as well. The range of this transmitter can be over 10 miles with antenna mounted at least 30 ft above ground.

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	$\leq -70$ dB (3 tones Vc-5dB, Sc-10dB, Cc-17dB)
Differential gain	$\leq 2\%$
Differential phase	$\leq 2^\circ$
<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. 10
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
<b>SUPPLY</b>	
SUPPLY	110 V or 220 V
<b>TV CHANNELS</b>	
TV CHANNELS	CH 14 - CH 69
<b>STEREO SOUND</b>	
STEREO SOUND	THERMAL PROTECTED
<b>AUDIO COMPRESSOR</b>	
AUDIO COMPRESSOR	VSWR PROTECTED
<b>RF OUTPUT</b>	
RF OUTPUT	N FEMALE
<b>VIDEO OUT</b>	
VIDEO OUT	1V (ADJUSTABLE VIDEO LEVEL)
<b>VSWR PROTECTED</b>	
VSWR PROTECTED	YES
<b>RF POWER</b>	
RF POWER	2-35 W (DEPENDS FROM THE MODEL)