

Broadcast FM Transmitter mod. ESVA



Mod with stereocoder option

- ▶ Compact 1HE professional case with reduced dimensions and weight
- ▶ Lower AC power consumption and Lower heating
- ▶ Top sound quality due to an FM signal generator having excellent signal/noise ratio and ultralow THD
- ▶ Full Broad band.No tuning or adjustments required.The frequency can be easily changed in whole FM band
- ▶ Dynamic protection of the power output which is automatically reduced to keep your station on the air
- ▶ Wide operating voltage range: 100-240V AC
- ▶ Easy and intuitive way to change frequency under a password key
- ▶ Simple installation and setup

Technical Features

FREQUENCY RANGE:	87.5÷108MHz (others upon request)	SYNCHRONOUS AM S/N Ratio:	> 65 dB with FM @ 75KHz @400Hz
MODULATION:	FM	ASYNCHRONOUS AM S/N Ratio:	> 70 dB Ref. 100% AM 400Hz
EMISSION CLASS:	F3E	PRE-ENPHASIS:	50 OR 75 µS int. selectable
VCO TUNING:	25 MHz	RF OUT CONNECTOR:	N-F 50 Ohm
FREQUENCY STABILITY:	± 2.5 ppm	MPX INPUT CONNECTOR:	BNC-F
SYNTHESIZER STEP:	10KHz	MPX INPUT IMPEDANCE:	2 KOhm
POWER OUTPUT:	30W, 50W or 100W	SCA INPUT CONNECTOR:	3 BNC-
SPURIOUS EMISSION:	< - 80 dB or better	COOLING:	Forced air by brushless fan
HARMONIC EMISSION:	< - 65 dB	OP.TEMPERATURE RANGE:	- 10 + +45 °C
STEREO SEPARATION:	> 55 dB @ 1KHz	MAXIMUM UMIDITY:	90 %
DISTORSION:	< 0.1 % (TYP. 0.06%) @ 1KHz	AC SUPPLY:	100 + 240 VAC - 47 + 63 Hz
BASE BAND:	30 Hz + 60 KHz within 0.15 dB	DIMENSION:	1 unit rack 19", 405mm depth
UNWEIGHTED S/N RATIO:	> 80 dB (30Hz + 15KHz 50 L_S RMS)	WEIGHT:	6Kg

Stereocoder Features

L & R Input connectors	Mini XLR female balanced
L & R Input impedance	10KΩ
L & R Input level	-8dBm to + 12dBm
Audio filter response	± 0.25dB 20Hz to 15KHz
Audio filter attenuation	> 45dB @ 19KHz, > 35dB to 60KHz
Pre-emphasis	Flat , 50 or 75 microS
Harmonic distortion on encoded channels	< 0.1% (0.05% typ) 20Hz to 15KHz
S/N	> 85dB rms
Stereo separation	> 60 dB (65dB typ 100Hz÷10KHz)
Pilot frequency	19KHz ±1Hz
Subcarrier frequency	38KHz ±2Hz
Subcarrier generation	4.864KHz Crystal oscillator
Pilot level	8 to 12% internal adjustable
Phase difference 19/38KHz	0° ± 2° internal adjustable
38KHz suppression	> 60dB