



FM 10.000W BROADCAST TRANSMITTER mod. JAMM10K

GENERAL

Power Output:.....from 0 to 10KW continuously adjustable from front panel.
Frequency Range:.....87.5+108.00 MHz, [66+74 MHz (OIRT), 76+90 MHz (JPN)]
Type of Modulation:.....Direct frequency modulation of carrier, F3E stereo and mono.
RF Output Impedance:.....50 ohm.
RF Output Connector:.....1+5/8"
RF Output setting:.....100W steps selectable
VSWR:.....1.5:1 Max with automatic fold-back VSWR prot. at all phase angles
Frequency Stability:.....Internal TCXO ± 2 ppm from -5 to +50°C (better on request)
Modulation Capability:.....over ± 200 KHz
Audio Inputs:.....L&R analog balanced, Unbalanced composite, AES, SCA, RDS
Operator interface setting:.....Encoder Push-Rotary
LCD Display:.....Oled/LCD hi-definition graphic type
Frequency Control:.....Synthesizer μ processor controlled.
Programming step:.....10 KHz increments
Interface control:.....N°2 RS485 ports RJ45 back panel
PC Interface: USB:.....connector Type B female front panel
Remote contro :.....RJ45 LAN connection with WEB-Server
Monitor RF:.....-10 dBm, BNC-F connector
Off Lock RF Muting:.....< -80 dBc.
RF Harmonics:.....Exceeds ETSI/CCIR/FCC requirements.
RF Spurious:.....Exceeds ETSI/CCIR/FCC requirements.
Preemphasis:.....Flat/50/75 μ s selectable from front panel.
Asynchronous AM S/N Ratio:.....-65 dB below ref. 100% AM modulation @ 400 Hz.
Synchronous AM S/N Ratio:.....-60 dB below ref. 100% AM mod. 400 Hz with FM 100%
AC Power Factor:.....0.95 typical at 220VAC
Powering:.....High efficiency slide in AC/DC power supplies
Operating temperature:.....-10°C to +50°C.
Max Operating Altitude:.....> 3000 mt.
Relative Humidity Range:.....0 to 95% non condensing.

MONAURAL PERFORMANCE

Operational Modes:.....Mono (L+R)
Input Impedance:.....600 ohm or 10 Kohms balanced.
Input Level:.....-6 to +12 dBm in 0.5dB step (Other range on request)
Input Connector:.....XLR female - balanced.
Audio Frequency Response:..... ± 0.15 dB, 30 Hz to 15 KHz.
Preemphasis setting:.....0, 50 μ S, 75 μ S
Audio Filter Attenuation:.....< -55 dB @ 19 KHz, < -50 dB 20 KHz to 100 KHz
TH Distortion + Noise:.....< 0.05% @ 400 Hz
FM S/N Ratio:.....better than -80 dB RMS ref. ± 75 KHz 50 μ s deemphasis.

MULTIPLEX PERFORMANCE

Composite Input Impedance:.....600 ohm or 10 Kohms balanced.
Composite Input Level:.....-12 to +6 dBm in 0.5dB step (Other range on request)
Input Connector:.....BNC female.
AES/EBU Input Connector:.....BNC female
Composite Response:..... ± 0.2 dB, 30 Hz to 100 KHz.
THDistortion + Noise:.....0.05% @ 400 Hz
Intermodulation Distortion:.....0.05%, 1 KHz/1.3 KHz, 1:1 ratio
FM S/N Ratio:.....better than -80 dB RMS ref. ± 75 KHz 50 μ s de-emph. decoded.

STEREO CODER PERFORMANCE

Audio Input Impedance:.....600 ohm balanced, 15 Kohm unbalanced.
Audio Input Level:.....-6 to +6 dBm in 0.5dB step (Other range on request)
Input Connector:.....XLR female.
Audio Frequency Response:..... ± 0.15 dB, 30 Hz to 15 KHz.
Preemphasis setting:.....0, 50 μ S, 75 μ S
THDistortion + Noise:.....0.05% @ 400 Hz
Intermodulation Distortion:.....0.05%, 1 KHz/1.3 KHz, 1:1 ratio
FM S/N Ratio:.....-80 dB RMS at ± 75 KHz 50 μ s de-emphasis.
Pilot Frequency:.....19 KHz ± 1 Hz
38 KHz Suppression:.....-60 dB (typ. -70 dB)
Audio Filter Attenuation:.....< -55 dB @ 19 KHz, < -50 dB 20 KHz to 100 KHz
Stereo Separation:.....30+100 Hz = -50 dB, 100Hz+15 KHz = -60 dB
Crosstalk attenuation:.....Main to Sub -50 dB 30 Hz to 15 KHz below 100% Mod.

SCA-RDS 1&2 PERFORMANCE

Input Level:.....-6 to +6 dBm in 0.5dB step (Other range on request)
Impedance:.....10k ohms unbalanced
Connector:.....BNC female
Amplitude Response:.....+/- 0.1dB; 53Hz to 100kHz

MECHANICAL/PHYSICAL

Height:.....221 mm (5HE)
Width:.....19" (48.3 cm) EIA Rack Mount
Depth:.....23" (605 cm) with connectors
Weight:.....36 kg 78 lbs unpacked



rear side

ECUAROMA

Viale Colle Romito 253 00040 ROMA www.ecuaroma.it