



FM 3000W and 5000W BROADCAST TRANSMITTERS mod. JAMM 3K and JAMM5K



Frontplane (in threephase configuration)

GENERAL

Power Output:.....from 0 to 3KW/5KW 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:.....7/8" (7/16" for 3KW upon request)
 RF Output setting:.....10/100W 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 hi-definition graphic type
 Frequency Control:.....Synthesizer μ processor controlled.
 Programming step:.....10 KHz increments
 Interface control:.....N² RS485 ports RJ45 back panel
 PC Interface: USB:.....connector Type B female front panel
 Telemetry:.....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

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