



VHF TRANSCEIVER

JRV-600A

The JRV-600A VHF TRANSCEIVER (after called JRV-600A) is shore basis communication equipment for maritime communication system in 150MHz RR band, is designed to satisfy the ITU radio regulation (RR). It attends the simplex and duplex communications under operating conditions with 24H-hours operation.

Front side



The JRV-600A can be selected according to the operating conditions. The full synthesizer controlled by a high performance microprocessor has eliminated a crystal oscillator, which hitherto have been needed for each channel.

The maritime mobile service radio communication channels are saved in EEPROM. The operator can call up any desired channel on the spot.

Back side



FEATURES

- The JRV-600A can be operated 24-hours a day.
- Either desk top-type or rack-mount type can be selected
- Direct channel mode and memory channel mode are provided
- Up to specified eight channels can be saved in EEPROM. (memory channel mode)
- The microprocessor allows easy operation
- LAN Network System
- The external control interface is RS-422 or 4-wire modem
- Use of Wide Band and Narrow Band possible

TECHNICAL SPECIFICATION

Frequency range	: a. Transmission (25kHz BW) = 156.300 - 156.875 MHz (simplex), 160.625 – 162.000 MHz (duplex) b. Transmission (12.5kHz BW) = 156.3875 - 156.8875 MHz (simplex), 160.6375 – 162.0125 MHz (duplex) c. Reception (25 kHz BW) = 156.025 – 157.425 MHz d. Reception (12.5 khz BW)= 156.0375 – 158.3875 MHz
Memory channels	: up to 8 channels (memory channel mode)
Communication system	: Simplex press to talk ; Duplex press to talk
Type of emission	: G3E (F3E, with 6dB octave pre-emphasis)
Antenna impedance	: Nominal 50Ω unbalanced
4 Wire remote control	: Voice 300 Hz to 2700 Hz ; Control 3000 Hz to 3400 Hz ; Nominal 600Ω balanced, -13dBm ±10dB 200bps
Operating temperature range	: 0°C to +50°C
Device storing temperature	: -20°C to +60°C
Power supply	:85-264 VAC, 50/60 Hz
Power Consumption	: Less than 300VA
Dimensions and weight	: Desk-top type = 149(H) x 432(W) x 422(D)mm ; Rack-mount type = 149(H) x 480(W) x 422(D)mm , Less than 12 kg

TRANSMITTER SECTION

Transmitter Output	: 50W ±10%
Oscillation	: PLL frequency synthesizer
Frequency tolerance	: ± 1x10 ⁻⁶ or less
Necessary bandwidth	: 16kHz / 11 kHz or less (Wide/Narrow)
Frequency deviation	: Within ±5kHz / ±2.5kHz
Spurious characteristic	: -80 dB or less from carrier ; -60 dB or less from carrier : 0.3kHz -10.5 +1dB, -3dB ; 3kHz +9.5 +1dB, -3dB (For 20 % modulation and 1kHz modulation freq.)
AF Frequency characteristic	
Distortion	: 3% or less for 60 %
Signal to noise ratio	: 45dB / 39dB or more for 60 %

RECEIVER SECTION

Method of reception	Double super heterodyne
Oscillation	PLL frequency synthesizer
Sensitivity	-3dBμ / -4.5dBμ e.m.f or less under the 12dB EIA SINAD 0dBμ / -1.5 4.5dBμ e.m.f. or less under the 20dB
Squelch sensitivity	-5.0dBμ e.m.f. or less 12kHz or more at 6dB drop point and
Selectivity	70dB or more
Spurious response	80dB or more
Intermodulation Characteristic	75dB or more
Signal to noise ratio	45dB / 39dB or more at antenna input of 100μV 5% or less at antenna input of 100μV (standard modulation signal input)
Distortion factor	and at the rated AF output -10dBm ± 1dB (standard modulation signal input); Adjustable in the range 0dBm to -20dBm
External AF output level	
External AF output	Nominal 600Ω balanced impedance

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