

SPECIFICATIONS

GENERAL

Type:	Amateur HF/VHF transceiver
Frequency range:	TX: 10-160 m + WARC / 50-54 MHz RX: 0.03-56 MHz
Tuning steps:	1 / 10 / 100 Hz
Frequency stability:	±0.5 ppm @ 25°C (77°F), after 1 minute warmup
Mode:	AM / FM / NFM / SSB / CW / RTTY / Packet
Channels / memory management:	99 regular 5 QMB 9 scan edge pairs (PMS) Non-volatile FRAM storage
Repeater shift / offset:	±0-1 MHz in 10 KHz steps (10 m) ±0-4 MHz in 10 KHz steps (6 m)
Power supply:	13.8 VDC ±10%
Current drain / power consumption:	RX: 1.8-2.1 A TX: Max 22 A
Antenna impedance / connector:	50 ohm / Two SO-239 (16.7-150 ohm with ATU on)
Dimensions (W*H*D):	365*115*315 mm (14.37*4.53*12.4")
Weight:	9.8 Kg (21.61 lb)
Other features:	32-bit IF-DSP. Built-in auto-ATU and keyer. 0.5 ppm TCXO. VOX. MOX. 5-channel digital voice recorder. CTCSS/PL. Rotator control function. RS-232C and CAT control.

RECEIVER SECTION

Receiver system:	Triple conversion superheterodyne 1st IF: 69.45 MHz 2nd IF: 450 KHz 3rd IF: 30 KHz (AM/FM: 24 KHz)
Sensitivity:	AM (10 dB S+N/N, 6 KHz BW) 0.5-1.8 MHz: 28 uV (IPO On) 1.8-30 MHz: 2 uV (AMP 2) 50-54 MHz: 1 uV (AMP 2) FM (12 dB SINAD, 15 KHz BW)

28-30 MHz: 0.5 μ V (AMP 2)
 50-54 MHz: 0.35 μ V (AMP 2)
SSB (10 dB S+N/N, 2.4 KHz BW)
 0.5-1.8 MHz: 4 μ V (IPO On)
 1.8-30 MHz: 0.2 μ V (AMP 2)
 50-54 MHz: 0.125 μ V (AMP 2)

Selectivity:	AM
	6 KHz (-6 dB)
	15 KHz (-60 dB)
	FM
	15 KHz (-6 dB)
	25 KHz (-60 dB)
	SSB
	2.4 KHz (-6 dB)
	3.6 KHz (-60 dB)
	CW/RTTY/PKT
	500 Hz (-6 dB)
	750 Hz (-60 dB)

Image rejection:	10-160 m: 70 dB
	50-54 MHz: 60 dB

AF output power / speaker:	2.5 W at 10% distortion / 4 ohm
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External speaker connector:	3.5 mm, 4-8 ohm
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TRANSMITTER SECTION

RF output power:		
	HF	6 m
AM:	2-25 W	2-25 W
FM/NFM:	5-100 W	5-100 W
SSB (PEP):	5-100 W	5-100 W
CW:	5-100 W	5-100 W
RTTY/ Packet:	5-100 W	5-100 W

Modulation system:	AM: Low level (early stage)
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FM: Variable reactance
SSB: Balanced

Max FM deviation (Factory set): FM: ± 5 KHz
NFM: ± 2.5 KHz

Spurious emissions: 10-160 m: Better than -60 dB
50-54 MHz: Better than -65 dB

Microphone impedance / connector: 200 ohm to 10 Kohm (600 ohm nominal) / 8-pin
(Metal locking ring connector)

Microphone input level: ? mV