

System-600M

HF Multi Mode Mobile Radio

- Frequency Coverage :
 - Rx: 30 kHz ~ 30.0000 MHz in 10 Hz Steps
 - Tx: 1.600 ~ 30.0000 MHz
- A1A (CW), J3E (LSB/USB), A3E (AM), J2B (USB/LSB), H3E (2.182 MHz Emergency Channel only)
- 200 Memory Channels (arranged in five banks)
- Alpha-Numeric labeling of Memory channels
- VFO mode capability
- ITU Marine Channel installed
- One touch 2.182 MHz Emergency Channel mode
- Power Output:
 - 125 Watts (A1A, J2B, J3E @ 1.6000 ~ 3.9999 MHz)
 - 100 Watts (A1A, J2B, J3E @ 4.0000 ~ 29.9999 MHz)
 - 31 Watts AM Carrier (A3E @ 1.6000 ~ 3.9999 MHz)
 - 25 Watts AM Carrier (A3E @ 4.0000 ~ 29.9999 MHz)
 - 31 Watts AM Carrier (H3E @ 2.182 MHz)
- Weather resistant, Rugged Construction
- Mobile Antenna (Optional)
- Selcall / Telcall built in
 - Selcall
 - Telcall
 - Message Call
 - Position Request call
 - Position Send Call
 - Beacon Request Call
- ALE Operation (requires optional ALE-1 unit)
- Dual Watch Operation
- External Automatic Antenna Tuner, FC-30 and FC-40 available
- VOX
- Noise Blanker
- Dimmer function
- CW Side tone function
- CW Semi-break-in
- Transcript SSB Encryption Unit SC20-455 Available (Optional)
- Field Memory Channel Storage
- PC Programmable



System-600M HF Multi Mode Mobile Radio

Specifications

General Specifications			
Receiver Frequency Range	30 kHz ~ 30.0000 MHz		
Transmitter Frequency	1.600 ~ 30.0000 MHz		
Emission Modes	A1A (CW), J3E (LSB/USB), A3E (AM), J2B (USB/LSB), H3E (2.182 MHz Emergency Channel only)		
Frequency Synthesizer Step	10 Hz, 100 Hz, 1 kHz		
Frequency Stability	±4 ppm (after 1 min. ~ 60 min. @25° C) ±1 ppm (after 60 min. ~ @25° C)		
Operating Temperature Range	14 ° F ~ 122° F (-10° C ~ +50° C)		
Antenna Impedance	50 Ohms		
Supply Voltage	13.8 Volts DC ±15%, negative ground		
Power Consumption	Standby	25 mA	
	Receive, no signal	1.0 A	
	Receive	1.5 A	
	Transmit	20 A (125 Watts output)	
Dimensions (WxHxD)	9.5 x 3.9 x 11.2 (241 x 99 x 285 mm)		
Weight (approx.)	9.5 lbs (4.3 kg)		
Receiver Specifications			
Intermediate Frequencies	1st: 45.274 MHz, 2nd: 24 kHz		
Sensitivity (A1A/J2B/J3E/A3E: S/N 10 dB)	0.1 ~ 0.5 MHz	A1A/J2B/J3E	A3E/H3E
	0.5 ~ 1.6 MHz:	1.41 µV	8 µV
	1.6 ~ 30 MHz:	0.16 µV	1 µV
Squelch Sensitivity (A1A/J2B/J3E)	0.1 ~ 0.5 MHz:	—	
	0.5 ~ 1.6 MHz:	2.5 µV	
	1.6 ~ 30 MHz:	2 µV	
IF Rejection	Better than 80 dB		
Image Rejection	Better than 80 dB		
Selectivity		—6 dB	—60 dB
	A1A(W), J2B(W), J3E	> 2.2 kHz	< 4.5 kHz
	A1A(N), J2B(N)	> 500 Hz	< 2.0 kHz
	A3E, H3E	> 6 kHz	< 20 kHz
Audio Output	At least 2.2 Watts into 8 Ohms @ 10% THD		
Audio Output Impedance	4 ~ 16 Ohms (8 Ohms Nominal)		
Conducted Radiation	Less than 4000 µW		
Transmitter Specifications			
Power Output	125 Watts (A1A, J2B, J3E @ 1.6000 ~ 3.9999 MHz)		
	100 Watts (A1A, J2B, J3E @ 4.0000 ~ 29.9999 MHz)		
	31 Watts AM Carrier (A3E @ 1.6000 ~ 3.9999 MHz)		
	25 Watts AM Carrier (A3E @ 4.0000 ~ 29.9999 MHz)		
	31 Watts AM Carrier (H3E @ 2.182 MHz)		
Modulation Types	J3E, H3E: PSN type modulator, A3E: Low-level (early stage)		
Spurious Radiation	Better than —42 dB (Harmonics)		
	Better than —36 dB (Harmonics @ 1.6 ~ 1.8 MHz)		
J3E Carrier Suppression	Better than 50 dB below peak output		
Undesired Sideband Suppression	Better than 60 dB below peak output		
J3E Audio Response	Not more than —6 dB from 400 Hz ~ 2500 Hz		
Occupied Bandwidth	A1A: less than 0.5 kHz		
	J3E, H3E: less than 3.0 kHz		
	A3E: less than 6.0 kHz		
Microphone Impedance	200 ~ 10 k Ohms (600 Ohms Nominal)		

Specifications are subject to change without notice or obligation.

Rear Panel



Accessories & Options



VL-1000 Linear Amplifier /
VP-1000 AC Power Supply for the VL-1000



Desktop Microphone



External Antenna Tuner (Wire/Whip Antennas)



External Antenna Tuner (Coaxial Lines)



External Speaker

Automatic Link Establishment Unit
Encryption Unit
Broadband HF Antenna
HF Multi-Band Mobile Antenna for
One-Touch Mobile Bracket
Carrying Handle
Linear Amplifier Control Cable
PC programmer



SURYA TELECOM PVT. LTD.

WIRELESS & TELECOM ENGINEERS

SCO 36, Sector 3,
Panchkula - 134 109 Haryana, INDIA
E-mail : office@suryatel.com