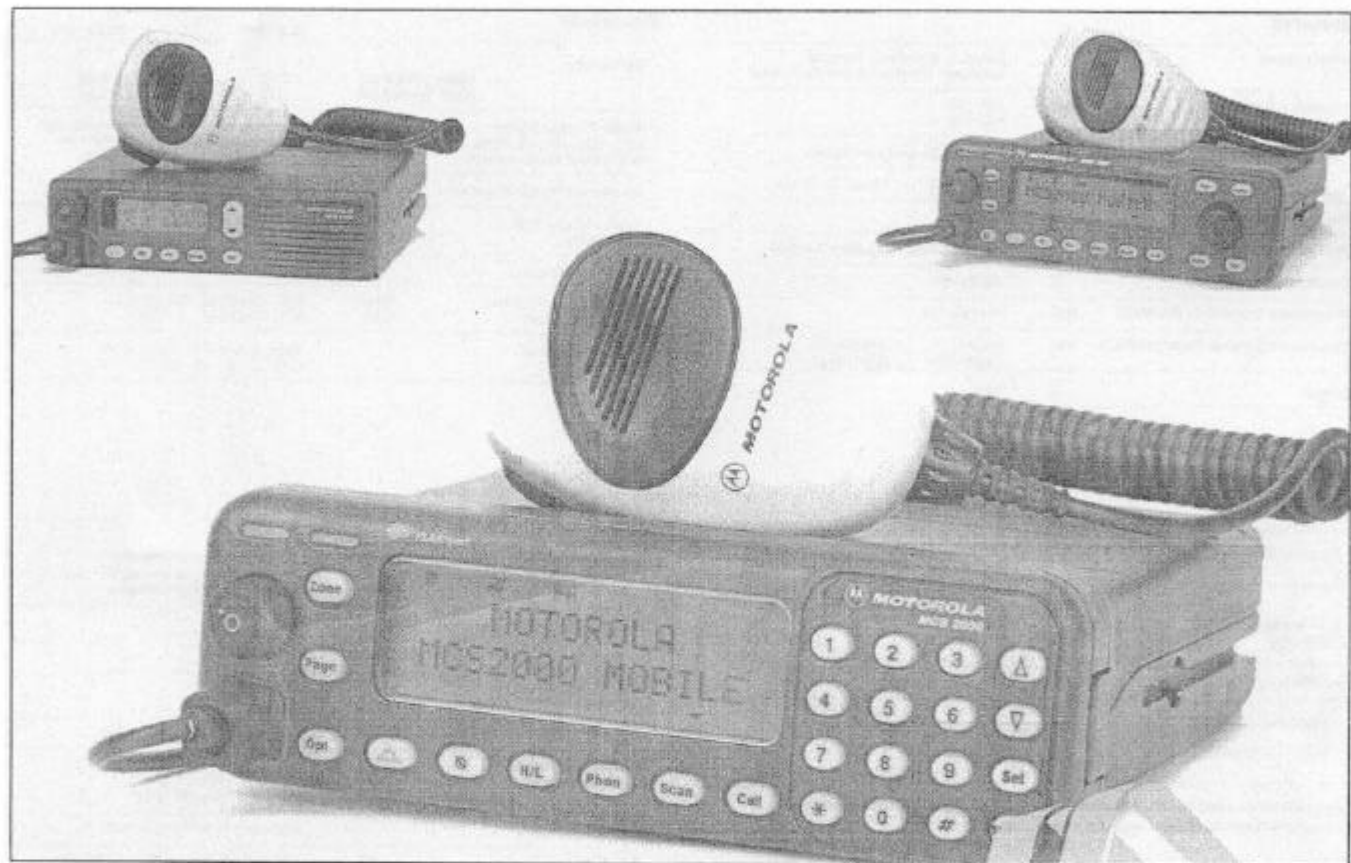




MOTOROLA

Mobius Mobile Radio

MCS 2000



The MCS 2000 is the state of the art mobile radio providing you with the quality and reliability you have come to expect from Motorola. Based on an open architecture design the radio can be tailored to operate in Select-5, Stat-Alert, Smartnet and Securenet systems. If your system requirements change, simply upgrade your radio accordingly.

● Easy to read, illuminated dot matrix display (Model II & III).

● Display with annunciators.
Model I 8-character s.
Model II 1x14 characters.
Model III 2x14 characters.

- Backlit buttons for night time viewing.
- Programmable Channel Spacing.
- Encryption capable for information protection.
- Programmable buttons to meet individual needs.

The MCS 2000 provides a bridge into your radio communication system of tomorrow.

FLASHport™

The new Motorola software innovation, which makes reprogramming and upgrading of your radio easy.

Mobius Mobile Radio

VHF 136-174 MHz
UHF 403-470 MHz

MCS 2000

General

System types:		Select 5, Stat-Alert, Statnet, Smartnet, Smartzone and Securenet	
Frequency Range	MHz	136-174 403-470	
Channel Spacing	KHz	12.5, 20, 25 (programmable)	
No. of Modes	Max	Model I: 48	Model II & III: 160
Antenna Impedance	Ohm	50	
Mode of Operation		Single or Two Frequency Simplex	
Operating Temperature	C	-25 to +55	
Dimensions Transceiver (HxWxD)	mm	44x168x160	
Dimensions Control Head (HxWxD)	mm	Model I	44x186x30
		Model II&III	68x186x30
Weight	g	1600	

Power Supply

Nominal Voltage	V	13.2
Operating Voltage	V	10.8 - 15.6
Current Drain - Standby	A	0.5
- Receive	A	1.75
- Transmit (25W) VHF	A	8.75
UHF	A	9.5
(10W) UHF	A	5.0

All specifications use the ETS 300-086 & IETS300-113 method for measurement.
All values subject to change without notice.

Receiver

		12.5 KHz	20/25 kHz
Sensitivity	12dB SINAD μ V	< 0.30	< 0.30
	20dB SINAD μ V	< 0.45	< 0.35
Audio Output Power <5% distortion @ 1kHz with rated audio output		4W (internal) 7.5W/13W (external)	4W (internal) 7.5W/13W
Spurious / Image Rejection	dB	> 80	> 80
Adjacent channel Selectivity	VHF UHF	> 70 > 65	> 75/80 > 70/75
Intermodulation	dB	> 70	> 70
Switching Bandwidth (no degradation)	VHF UHF	136 - 174 MHz (38 MHz) 403 - 470 MHz (67 MHz)	
Audio Response Distortion		According to PTT Regulations < 3% (E.T.A.) 5% (CEPT)	

Transmitter

Power Output (no degradation)	VHF UHF UHF	1 - 25 Watt (programmable) 1 - 10 Watt (programmable) 10 - 25 Watt (programmable)
Maximum Deviation	12.5 kHz 20 kHz 25 kHz	\pm 2.5 kHz \pm 4.0 kHz \pm 5.0 kHz
Audio Distortion (@ 1kHz, 80% deviation)		\leq 3% at 70% max
Spurious and Harmonics	μ W	< 0.25 (< 1 GHz) < 1 (> 1 GHz)
Switching Bandwidth (no degradation)	VHF UHF	136 - 174 MHz (38 MHz) 403 - 470 MHz (67 MHz)
Audio Response		According to PTT regulations
Adj. Channel Power	dB	< 60 at 12.5 kHz < -70 at 20/25 kHz