

JT 1000™

FRONT PANEL PROGRAMMABLE PORTABLE RADIO



BROADENING

YOUR

HORIZONS

The JT 1000™ portable radio . . . a 16 channel front panel programmable radio, available in VHF or UHF. It's making dedicated two-way communications faster, clearer and easier . . . the ideal communications tool for people who work on the move.

Front Panel Programmable

In a matter of minutes, an authorized user can easily reprogram the JT 1000's frequencies to work within any system. The radio's innovative design also allows for reprogramming, via the front panel, of features such as channel spacing, power levels, squelch adjustment, and PL/DPL codes. In addition to front panel programmable features, other features that you depend on, such as Selectable Scan, DTMF encode, Quik-Call II signalling and a built-in noise reduction microphone are also included.

Additional Security

In order to change radio frequencies, adjust channel spacing or change PL/DPL codes, a programming key (available as a separate accessory) and a password are required. In addition, the JT 1000's radio software automatically checks to make sure the programming key is in place prior to accepting changes to these features.

User Friendly

With little or no training, an authorized user can make changes using the programming key and password. The JT 1000's unique interface, an easy to read backlit alphanumeric display and 15 button keypad, provides easily accessible scrolling menu selections.

Mechanical Integrity

This rugged, lightweight portable meets MIL STD 810 C, D and E requirements.

Broadening Your Horizons

The JT 1000 portable offers the quality and reliability you have come to expect from Motorola . . . and more. Motorola continues to broaden your communications horizons with the addition of the JT 1000 . . . a portable radio with truly innovative features.

Call your Motorola Dealer today for more information.

Notes:

The JT 1000 radio may only be programmed on those frequencies that the radio user is licensed to use. Programming of frequencies is to be accomplished only by authorized personnel. Radio operation on unauthorized frequencies is a violation of Federal law.

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JT1000™

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Typical Performance Specifications (all specifications are per EIA 316B unless otherwise noted)

General	Model Number	Channels	Bandsplit	RF Pwr Output	Display / Keypad
VHF Models	H01KDH9PA3_N	16	136 - 174 MHz	1 to 5 Watts	Front 14 Character / 15 Button
UHF Models	H01RDH9PA3_N	16	403 - 470 MHz	1 to 4 Watts	Front 14 Character / 15 Button
	H01SDH9PA3_N	16	450 - 512 MHz	1 to 4 Watts	Front 14 Character / 15 Button

Power Supply	Provided through one rechargeable nickel cadmium battery
Sealing	Withstands rain testing per Mil. Std. 810 C/D/E
Shock and Vibration	Protection provided via impact resistant housing exceeding EIA RS-316B and Mil. Std. 810 C/D/E
Dust and Humidity	Protection provided via weather resistant housing exceeding EIA RS-316B and Mil. Std. 810 C/D/E

Radio Dimensions		Radio Weight	
Radio Only:	6.30" (H) x 2.34" (W) x 1.49" (D)	Radio Only:	10.2 oz.
With Alkaline Battery:	6.30" (H) x 2.34" (W) x 2.15" (D)	With Alkaline Battery:	24.2 oz.
With High Capacity Battery:	6.30" (H) x 2.34" (W) x 1.49" (D)	With High Capacity Battery:	18.3 oz.
With Ultra High Capacity Battery:	6.30" (H) x 2.34" (W) x 1.54" (D)	With Ultra High Capacity Battery:	19.4 oz.

Dimensions Note: All depth and width dimensions reflect measurements taken at the widest points on the radio unit. They do not reflect every width and depth point on the radio.

Battery Life @ 5/5/90	VHF @ 5W	VHF @ 1W	UHF @ 4W	UHF @ 1W
Alkaline Battery:		16.0 Hours		16.0 Hours
High Capacity Battery:	8.0 Hours	11.0 Hours	8.0 Hours	11.0 Hours
Ultra High Capacity Battery:	9.0 Hours	12.0 Hours	9.0 Hours	12.0 Hours

	VHF		UHF	
	12.5 / 25 / 30 kHz	Full Bandsplit 136 - 174	12.5 / 25 kHz	403 - 470 & 450 - 512
Channel Spacing:	12.5 / 25 / 30 kHz	Full Bandsplit 136 - 174	12.5 / 25 kHz	403 - 470 & 450 - 512
Frequency Separation: (MHz)	12.5 / 25 / 30 kHz	Full Bandsplit 136 - 174	12.5 / 25 kHz	403 - 470 & 450 - 512
FM Hum & Noise @ 12.5 kHz: @ 25 or 30 kHz: (Companion Receiver Method)	- 40 dB - 45 dB	- 40 dB - 45 dB	- 40 dB - 45 dB	- 40 dB - 45 dB
Audio Distortion:	3%	3%	3%	3%
Spurious & Harmonics:	- 66 dBW	- 66 dBW	- 66 dBW	- 66 dBW
Frequency Stability: @ 12.5 kHz: @ 25 or 30 kHz: (- 30 to + 60° C; 25° C ref.)	+/- .0005% +/- .0005%	+/- .0003% +/- .0005%	+/- .0003% +/- .0005%	+/- .0003% +/- .0005%
FCC Designation:	AZ489FT3768	AZ489FT3768	AZ489FT4780	AZ489FT4780
Modulation:	16K0F3E 20K0F2D	16K0F3E 20K0F2D	16K0F3E 20K0F2D	16K0F3E 20K0F2D
Audio Response: (from a 6 dB / octave pre-emphasis 300 to 3000 Hz)	+ 1, - 3 dB	+ 1, - 3 dB	+ 1, - 3 dB	+ 1, - 3 dB

Standard	U.S. Military Spec 810C		U.S. Military Spec 810D		U.S. Military Spec 810E	
	Method	Procedure	Method	Procedure	Method	Procedure
Low Pressure	500.1	I	500.2	II	500.3	II
High Temperature	501.1	I	501.2	I (Cat. A1), II	501.3	I (Cat. A1), II
Low Temperature	502.1	I	502.2	I (Cat. C1), II	502.3	I (Cat. C1), II
Temperature Shock	503.1	I	503.2	I (Cat. A1, C1)	503.3	I (Cat. A1, C1)
Solar Radiation	505.1	I	505.2	I	505.3	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II
Humidity	507.1	II	507.2	II, III	507.3	II, III
Salt Fog	509.1	I	509.2	I	509.3	I
Dust	510.1	I	510.2	I	510.3	I
Vibration	514.2	VII, VIII, X	514.3	I (Cat. 8)	514.4	I (Cat. 8)
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV

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Channel Spacing:	12.5 / 25 / 30 kHz	Full Bandsplit 136 - 174	12.5 / 25 kHz	403 - 470 & 450 - 512
Frequency Separation: (MHz)	12.5 / 25 / 30 kHz	Full Bandsplit 136 - 174	12.5 / 25 kHz	403 - 470 & 450 - 512
Modulation Acceptance @ 12.5 kHz: @ 25 or 30 kHz:	+/- 3.75 kHz +/- 7.5 kHz	+/- 3.75 kHz +/- 7.5 kHz	+/- 3.75 kHz +/- 7.5 kHz	+/- 3.75 kHz +/- 7.5 kHz
Audio Distortion:	3%	3%	3%	3%
Intermodulation @ 12.5 kHz: @ 25 or 30 kHz:	- 65 dB - 75 dB	- 65 dB - 75 dB	- 63 dB - 73 dB	- 63 dB - 73 dB
Sensitivity: 20 dB Quieting: 12 dB Sinad:	40 µV 28 µV	40 µV 28 µV	40 µV 28 µV	40 µV 28 µV
Adjacent Channel Selectivity (EIA Sinad) @ 12.5 kHz: @ 25 or 30 kHz:	- 65 dB - 75 dB	- 65 dB - 75 dB	- 63 dB - 73 dB	- 63 dB - 73 dB
Spurious Response Rejection: 1/2 I.F.:	- 75 dB - 75 dB	- 75 dB - 75 dB	- 73 dB - 68 dB	- 73 dB - 68 dB
Image Rejection:	- 74 dB	- 74 dB	- 73 dB	- 73 dB
Rated Audio Output:	500 mW	500 mW	500 mW	500 mW
Frequency Stability @ 12.5 kHz: @ 25 or 30 kHz: (- 30 to + 60° C; 25° C ref.)	+/- .0005% +/- .0005%	+/- .0005% +/- .0005%	+/- .0003% +/- .0005%	+/- .0003% +/- .0005%

For more information, contact



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