HT 1000™

PORTABLE RADIOS

CREATING NEW HORIZONS

Motorola is creating new horizons in radio…with innovations that make dedicated two-way communications faster, clearer and easier to use.

The **HT 1000** portable…a powerful, small, durable radio loaded with advanced two-way communications features. It's available in 2 and 16 channel models, and supports VHF, UHF and 800 MHz.

Feature Packed

Small and lightweight, the **HT 1000** portable breaks the notion that a radio's size and weight must increase as the portable grows in capability. The **HT 1000** radio is loaded with features never before offered in a Motorola HT portable product. Features such as Operator Selectable Scan, Priority Scan, Unit ID, Emergency, Call Alert Decode, a built-in noise canceling microphone, and DTMF encode capable.

Frequency Flexibility

The **HT 1000** portable features a broad band range. A single radio model can operate from 136 to 174 MHz to cover VHF requirements. The entire UHF band is covered with 2 models and the 800 MHz band needs only one.

Additionally, the **HT 1000** radio's channel spacing is programmable in VHF and UHF, letting you change bandwidth in either a 25 kHz or 12.5 kHz spaced communication system.

Versatile

The design of the **HT 1000** portable gives you the ability to configure the radio's operational parameters to fit the user's needs. Not only can feature sets be mode slaved for automatic operation, but the top mounted three position toggle switch can e programmed to allow for manual feature access.

Rugged

The **HT 1000** portable also meets or exceeds numerous Mil. Std. 810C, D and E requirements, and has passed Motorola's unique Accelerated Life Test for durability and reliability.

The New Horizon

The **HT 1000** portable offers all the quality and reliability you have come to expect from Motorola…and more. Never before has Motorola produced an HT radio with such advanced capabilities… truly a new horizon in radio communications.

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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	H01KDC9AA1__N	2*	136 - 174 MHz	1 to 5 Watts	None / Optional
	H01KDC9AA3__N	16	136 - 174 MHz	1 to 5 Watts	None / Optional
UHF Models	H01RDC9AA1__N	2*	403 - 470 MHz	1 to 4 Watts	None / Optional
	H01RDC9AA3__N	16	403 - 470 MHz	1 to 4 Watts	None / Optional
	H01SDC9AA1__N	2*	450 - 520 MHz	1 to 4 Watts	None / Optional
	H01SDC9AA3__N	16	450 - 520 MHz	1 to 4 Watts	None / Optional
800 Models	H01UCC6AA1__N	2*	806 - 870 MHz	3 Watts	None / Optional
	H01UCC6AA3__N	16	806 - 870 MHz	3 Watts	None / Optional

*2 channel models not compatible with MTVA or Public Safety Microphone.

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 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	800 @ 3W
High Capacity Battery:	8.0 Hours	11.0 Hours	8.0 Hours	11.0 Hours	8.0 Hours
Ultra High Capacity Battery:	9.0 Hours	12.0 Hours	9.0 Hours	12.0 Hours	9.0 Hours

Transmitter

	VHF	UHF	800
Channel Spacing:	12.5 / 25 / 30 kHz	12.5 / 25 kHz	25 kHz
Frequency Separation: (MHz)	Full Bandsplit 136 - 174	403 - 470 & 450 - 520	Full Bandsplit 806 - 825 851 - 870
FM Hum & Noise @ 12.5 kHz: @ 25 or 30 kHz: (Companion Receiver Method)	- 40 dB - 45 dB	- 40 dB - 45 dB	- 45 dB
Audio Distortion:	3%	3%	3%
Spurious & Harmonics:	- 66 dBW	- 66 dBW	- 46 dBW
Frequency Stability: @ 12.5 kHz: @ 25 or 30 kHz: (- 30 to + 60° C; 25° C ref.) (821 - 824 MHz Capable)	+/- .0005% +/- .0005%	+/- .0003% +/- .0005%	+/- .00025% +/- .00015%
FCC Designation:	AZ489FT3768	AZ489FT4780	AZ489FT5747
Modulation:	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

	U.S. Military Spec 810C		U.S. Military Spec 810D		U.S. Military Spec 810E	
Standard	**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

Receiver

	VHF	UHF	800
Channel Spacing:	12.5 / 25 / 30 kHz	12.5 / 25 kHz	25 kHz
Frequency Separation: (MHz)	Full Bandsplit 136 - 174	403 - 470 & 450 - 520	Full Bandsplit 851 - 870
Modulation Acceptance @ 12.5 kHz: @ 25 or 30 kHz:	+/- 3.75 kHz +/- 7.5 kHz	+/- 3.75 kHz +/- 7.5 kHz	+/- 7.5 kHz
Audio Distortion:	3%	3%	3%
Intermodulation @ 12.5 kHz: @ 25 or 30 kHz:	- 65 dB - 75 dB	- 63 dB - 73 dB	- 70 dB
Sensitivity: 20 dB Quieting: 12 dB Sinad:	.40 µV .28 µV	.40 µV .28 µV	.50 µV .35 µV
Adjacent Channel Selectivity (EIA Sinad) @ 12.5 kHz: @ 25 or 30 kHz:	- 65 dB - 75 dB	- 63 dB - 73 dB	- 70 dB
Spurious Response Rejection: ½ I.F.:	- 75 dB - 75 dB	- 73 dB - 68 dB	- 70 dB - 70 dB
Image Rejection:	- 74 dB	- 73 dB	- 74 dB
Rated Audio Output:	500 mW	500 mW	500 mW
Frequency Stability: @ 12.5 kHz: @ 25 or 30 kHz: (- 30 to + 60° C; 25° C ref.)	+/- .0005% +/- .0005%	+/- .0003% +/- .0005%	+/- .00025%

For more information, contact

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Authorized Two-Way Radio Dealer

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Specifications subject to change without notice.

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