

The Motorola Solutions DP1400 is the entry-level radio which is packed with features you would expect on higher-end equipment. As part of the MOTOTRBO family of radios, the DP1400 has superior audio quality, outstanding coverage, long-lasting battery life and more.

The DP1400 features 32 channels, allowing you to create more targeted communications for the different functions within your workforce. The radio's ergonomic design gives users access to all the controls even when wearing gloves, while the two programmable buttons and a wide selection of accessories allow many customisation options for every user.



Specifications

General	
Channel Capacity	32
RF Output	Low Power: VHF - 1W, UHF - 1W High Power: VHF - 5W, UHF - 4W
Frequency	VHF: 136-174 MHz UHF: 403-470 MHz
Dimensions (H x W x D) with battery	NiMH 1400mAh: 128 x 62 x 42 mm Slim Li-Ion 1600mAh: 128 x 62 x 39 mm High Cap Li-Ion 2250mAh AND Ultra-High Cap Li-Ion 2900mAh: 128 x 62 x 44 mm
Weight with battery	NiMH 1400 mAh: 406g Slim Li-Ion 1600 mAh: 341g High Cap Li-Ion 2250 mAh: 346g Ultra-High Cap Li-Ion 2900 mAh: 348g
Power Supply	7.5V (Nominal)
Transmitter	
Frequency	VHF: 136-174 MHz UHF: 403-470 MHz
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz
Frequency Stability	± 0.5 ppm
Low Power Output	VHF: 1W UHF: 1W
High Power Output	VHF: 5W UHF: 4W
Modulation Limiting	± 2.5 kHz @ 12.5 kHz / ± 4.0 kHz @ 20 kHz / ± 5.0 kHz @ 25 kHz
FM Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 20/25 kHz
Conducted / Radiated Emission	-36 dBm < 1 GHz / -30 dBm > 1 GHz
Adjacent Channel Power	60 dB @ 12.5 kHz / 70 dB @ 20/25 kHz
Audio Response (TIA603D)	+1, -3 dB
Audio Distortion	3% (typical)
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD 12.5 kHz Voice: 7K60F1E and 7K60FXE Combination of 12.5 kHz Voice and Data: 7K60F1W
Digital Vocoder Type	AMBE +2™
Digital Protocol	ETSITS 102 361-1, -2, -3

Specifications subject to change without notice. All specifications shown are typical unless otherwise stated.

Battery	
Average battery life at 5/5/90 duty cycle with carrier squelch and transmitter in high power	
NiMH (1400 mAh) Battery	Analogue: 9.5 hrs / Digital: 12 hrs
Slim Li-Ion (1600 mAh) Battery	Analogue: 11.5 hrs / Digital: 14.5 hrs
High Cap Li-Ion (2250 mAh) Battery	Analogue: 15.5 hrs / Digital: 19.5 hrs
Ultra-High Cap Li-Ion (2900 mAh) Battery	Analogue: 19.5 hrs / Digital: 25 hrs
Environmental	
Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IEC60529 - IP54
Packaging Test	Per MIL-STD
Receiver	
Frequency	VHF: 136-174 MHz UHF: 403-470 MHz
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz
Frequency Stability	± 0.5 ppm
Analogue Sensitivity	0.3 uV / 0.22 uV (typical)
Digital Sensitivity (5% BER)	0.25 uV / 0.19 uV (typical)
Intermodulation (TIA603D)	70 dB
Adjacent Channel Selectivity	45 dB @ 12.5 kHz / 70 dB @ 20/25 kHz
Audio Output Power	Rated: 0.5 W (at 1% distortion) Maximum: 2.1 W
Maximum Speech Loudness	98 phon @ 30 cm
Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 20/25 kHz
Audio Response (TIA603D)	+1, -3 dB
Conducted Spurious Emissions	-57 dBm

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