

Motorola P140, P160 & P180 Portable Two-Way Radios



P140

Easy-to-handle, lightweight, compact design.

Tough construction and reliable performance thanks to Motorola's unique Accelerated Life Testing (ALT)

High power 5 watt (VHF) / 4 watt (UHF) adjustable power levels help extend battery life.

Multi-channel capability* - 99 channels to support communication amongst all your employees.

Standard Lilon battery provides up to 11 hours of battery life at high power (5/5/90 duty cycle) to meet the demands of your employee's work shift. A high-capacity Lilon battery option is available for those with longer shift requirements or increased communication needs.

Tighter specifications provide enhanced rejection of interference so you can get your message through clearly.

X-Pand technology provides crisp, clear and strong audio quality.

5 programmable buttons* enabling easy, one-touch access to up to 10 user selected features.

VOX ready for hands-free communication using a suitable headset

Built-in simple voice scrambling for increased privacy (programmable feature).

Built-in DTMF, MDC & QCII signalling provides caller identification and private communication.

User programmable** feature allows customisation of radio profiles while on the go.

Talkaround capability enabling communication even when a repeater is not being used.

Rapid-rate drop-in charging - charge standard capacity batteries in less than 3 hours with the single unit charger.

Get the most from your radio using the wide range of Motorola Original® accessories: microphones, earpieces, carry cases, a high capacity battery and more allow the user to match the radio to their needs.

Remote Speaker Microphones can be clipped to a lapel or pocket, allowing messages to be sent and received more easily.

Earpieces and headsets let you keep your hands free without missing messages.

Carry cases let you put the radio on your belt and help prevent damage.

High capacity battery means longer run-times between recharging.

*P140 has 16 channels and 2 programmable buttons **P160/180 models only

Enhanced functionality, reliable communication

increasing customer satisfaction. Motorola's two-way radios provide a durable, high-quality manufacturing, retail, hospitality services,

property and real estate management. radios bring you quality features you need at a competitive price. With an extensive feature efficiency and productivity.

P140, P160 and P180 Radio Specifications***

		P140, P160 & P180						
	VH	IF	UHF					
requency Range	136-17	136-174MHz 403-447MH 435-480MH						
hannel Capacity		99 CH*						
hannel Spacing		12.5/25 kHz switchable						
perating Temperature Range		-20°C to +55°C						
itorage Temperature Range		-40°C to +85°C						
Dimensions (H X W X D) with Lion battery MiMH battery High Capacity Lilon battery		120 x 55 x 35.5 mm 120 x 55 x 36.5 mm 120 x 55 x 40.7 mm						
Veight with ilon battery IIMH battery ligh Capacity Lilon battery		335g 395g 340g						
verage Battery Life @5-5-90% Duty Cycle, with ilon battery ilMH battery ligh Capacity Lilon battery		High Power up to 11 hrs up to 9 hrs up to 16 hrs						
ealing		Rated IP54 - protected against harm from dust or water spray						
hock & Vibration		Diecast body with impact resistant polycarbonate housing, Meets MIL-STD810						
Just & Humidity		Weather resistant housing Meets MIL-STD810						
Fransmitter								
FOutput	High Power 5W	Low Power 1W	High Power 4W	Low Power 1W				
purs and Harmonics		9kHz - 1GHz <-36dBm >1GHz <-30dBm						
requency Stability (-20°C to +55°C)		1.5 kHz @ 12.5 kHz 2.0 kHz @ 25 kHz						
Nodulation Limiting		≤ ± 5KHz @ 25KHz ≤ ± 2.5KHz @ 12.5KHz						
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Audio Response (from 6dB/oct pre-emphasis, 300-3000Hz)	≤+1/3dB
Audio Distortion @ 1kHz tone, 60% rated max dev.	<5%
Receiver	
Sensitivity (20dB SINAD)	< -107 dBm (1µV/50 Ohm)
Adjacent Channel Selectivity	>70dB (25kHz), >65dB (12.5kHz)
Intermodulation	>65dB
Spurious Rejection	>70dB
Audio Distortion	<5%
Conducted Emission	<-57dBm for below 1GHz < 47dBm for above 1GHz
Audio Output @ <5% Distortion	500mW (at 24 Ohm)

Military Standards

Applicable MIL-STD	81	810C		810D		810E		810F		810G	
	Methods	Proc./Cat.	Methods	Proc./Cat.	Methods	Proc./Cat.	Methods	Proc./Cat.	Methods	Proc./Cat.	
Low Pressure	501.1	T	500.2	Ш	500.3	П	500.4	Ш	505.5	Ш	
High Temperature	501.1	1, 11	501.2	I/A1,II/A1	501.3	I/A1,II/A1	501.4	l/Hot,II/Hot	501.5	l/Hot A1, Il/Hot (A1)	
Low Temperature	502.1	T	502.2	I/C3,II/C1	502.3	I/C3,II/C1	502.4	I/C3,II/C1	502.5	I/C3,II/C1	
Temp. Shock	503.1	-	503.2	I/A1C3	503.3	I/C1A3	503.4	T	503.5	I/C	
Solar Radiation	505.1	Ш	505.2	T	505.3	1	505.4	T	505.5	1	
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	1, 111	506.5	I, III	
Humidity	507.1	Ш	507.2	II	507.3	П	507.4	-	507.5	-	
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-	
Blowing Dust	510.1	I	510.2	I	510.3	T	510.4	T	510.5	T	
Blowing Sand	-	-	510.2	II	510.3	П	510.4	Ш	510.5	Ш	
Vibration	514.2	VIII/F, Curve-W	514.3	l/10,ll/3	514.4	I/10,II/3	514.5	1/24	514.6	I/24	
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV	
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*** Availability subject to individual country's law and regulations. Radios meet applicable regulatory requirements. All specifications listed are typical and are subject to change without notice. Specifications are issued for guidance only.

To ensure compliance with RF energy exposure standards and regulations, use only Motorola-approved batteries and accessories.

Contact your local Motorola Authorised Dealer to find out more about how communicating with Motorola radios will benefit your organisation.

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For more information please contact your local Motorola Authorised Dealer or Distributor

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