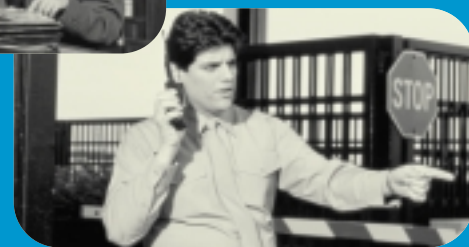
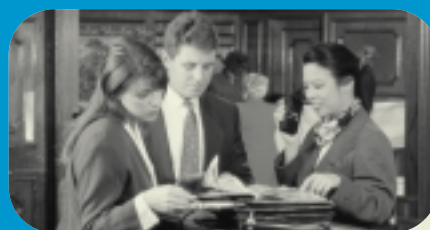


SP50+

Introducing the
Radius SP50+ Portable
Two-Way Radio



Puts **Great Communication** in the Palm of Your Hand.



To succeed in today's demanding business world, you have to make every minute count. The faster you can **connect** with the people and information you need, the better your business runs. And to do that effectively, you have to have the right communication tools at your fingertips—tools that give you a quick, clear connection at an affordable price. With the new **Radius SP50+** portable two-way radio, that's exactly what you get.

The efficient SP50+ two-way radio lets you connect instantly with one, ten, or one hundred people at the **touch of a button**—without costly airtime charges. Its unique combination of form and functionality provides the immediate, reliable communication you need to maximize productivity and meet your customers' demands.

Solid Value, Steady Performance

The **easy-to-use** SP50+ portable radio delivers all the essential features you need to keep your business working at its best, including excellent sound quality and coverage range that extends up to 5 miles (depending on terrain and conditions). The radio can operate on 10 reprogrammable channels, giving you the **flexibility** to boost system capacity as your communication needs grow. Its lightweight, compact design makes the radio easy to carry and hold—ideal for work teams on the go. A wide range of optional accessories gives you the flexibility to customize your radio to meet your specific business needs. And because the SP50+ portable comes with a very **economical** price tag, you can rest assured that it's good for your business and your bottom line.

Quality You Can Count On

For more than 65 years, Motorola has been a leader in creating state-of-the-art wireless communications. The SP50+ two-way upholds that exceptional standard. Every radio is backed by a limited one-year warranty on parts and labor. When you select the SP50+ portable, you'll enjoy the same **outstanding quality** you've come to expect from all Motorola products.

Great Communication at Your Fingertips

With the SP50+ portable radio, keeping your business connected couldn't be simpler. So don't wait. Call your Motorola dealer today to learn more—and start putting great communication in the palm of your hand.

Security

When you have to solve an important security issue, there's often no time to spare. The SP50+ two-way radio can connect you instantly with the right colleagues at the touch of a button.



Hospitality

Whether you need to locate a guest's missing bag or do a last-minute check on room availability, the SP50+ portable radio can help you meet your clients' needs quickly and easily.

Valuable Features

The two-watt SP50+ portable is available in both UHF and VHF models with either 25kHz or 12.5 kHz channel spacing. And every SP50+ radio offers a variety of useful features—designed to help keep even the busiest work teams operating effectively.

Flexible Capabilities

The versatile functionality of the SP50+ radio delivers plenty of options to enhance on-the-job communications.

- Channel scan allows you to monitor transmissions of multiple workgroups concurrently, maximizing your efficiency.
- Tight/loose squelch improves reception for local or distance calling through selective muting.
- The handy time-out timer automatically shuts off your radio's transmitter after a specified amount of time, helping to prevent channel tie-ups.
- Optional Quik-Call II™ decode Advantage Board™ enables you to receive pages on your radio.

Comfortable, Compact Design

The sleek new design of the SP50+ portable delivers both convenience and comfort. Though it measures only 5.2" x 2.5" x 1.28" (132 mm x 63.5 mm x 32.5 mm) and weighs just 14.4 oz. (408 g), the radio is still remarkably rugged and durable—able to withstand virtually any work environment. Its enhanced spring belt clip is stronger than ever, allowing you to attach the radio securely to your belt. Readily accessible control buttons on the radio's top and sides make it simple to handle and operate.

Convenient Radio Chargers

Every SP50+ portable radio comes complete with either a desktop or wall charger that plugs into any 110-volt outlet and can fully recharge the radio in 10 hours. An optional 3-hour rapid rate charger is also available.



A Antenna
Enhances radio's calling range

B Audio Accessory Connector
Allows addition of versatile audio accessories

C Channel Selector
10 channels available

D On-Off/Volume Knob
Turns radio power on or off and adjusts volume levels

E Speaker
Clear, crisp audio source

F Opt LED Indicator
Clear visible feedback of tight/loose squelch, voice selective call, and channel scan

G Monitor Control Button
Indicates available channels

H DTMF Keypad (not shown)
Provides telephone interconnect capabilities (with optional retrofit kit)

I Push-to-Talk Button
Convenient control of voice transmissions—push to talk, release to listen

J Tx LED Indicator
Clear visible feedback of transmit, low battery alert, busy channel, and monitor status

K Option Control Button
Controls scan, power level, and tight/loose squelch features

Optional Accessories

Motorola Original accessories offer you an easy way to turn your SP50+ portable into a custom communication solution, so you can adapt your radio to fit your business needs.

Audio Accessories

Lightweight headsets give your SP50+ radio enhanced sound clarity—especially useful in noisy environments. Remote speaker microphones let you use your radio without lifting it out of its carry case. Comfortable, unobtrusive earpieces and earbuds mute the internal radio speaker while channeling the audio directly to your ear, so you can monitor transmissions clearly and privately.



Carry Cases and Belt Clips

Handy leather or nylon carry cases and belt clips are designed to hold your SP50+ two-way radio snugly in place, protecting your radio and making it easy to carry.

Battery Packs and Chargers

Battery packs and chargers help keep your SP50+ portable fully functioning at all times, so you can rest assured it's ready whenever you need it. Three-hour rapid rate chargers speed up the charging process, ensuring fast backup and continuous radio performance. All SP50+ desktop chargers allow users to charge either the radio or battery alone.



Antennas

The diverse types of antennas available for the SP50+ radio offer you flexibility in choosing size and calling range. Longer antennas will maximize the coverage area of your SP50+ portable, or you can select a stubby, more compact antenna.

RADIUS SP50+ SPECIFICATIONS

General Specifications

VHF		UHF	
Model Series:	P93V05	P94V05	
Frequency:	150 - 170 MHz	450 - 470 MHz	
Channel Capacity:	10		
Power Supply:	Rechargeable Nickel-Cadmium Battery		
Dimensions:	5.2" x 2.5" x 1.28" (132.0 mm x 63.5 mm x 32.5 mm)		
Weight:	14.4 oz. (408g)		
Average Battery Life @ Continuous Standby:	15 Hours		
Duty Cycle:	5-5-90 6 hrs. 2W 4 hrs. 4W	High Power 6 hrs. 2W 4 hrs. 4W	High Power 6 hrs. 2W 4 hrs. 4W
Sealing:	Passes rain testing per MIL-STD 810 C, D & E and IP54		
Shock & Vibration:	Impact-resistant polycarbonate blend housing passes EIA RS-3168 and MIL-STD 810 C, D & E		
Dust & Humidity:	Weather resistant housing passes EIA RS-3168 and MIL-STD 810 C, D & E		

Transmitter Specifications

VHF		UHF	
RF Output* Ni-Cd @ 7.5V:	2W (Adjustable 1-5W)	2W (Adjustable 1-4W)	
Frequency Separation:	20 MHz	20 MHz	
Frequency Stability: (-30°C to +60°C)	±0.003% 12.5 kHz 20/25/30 kHz	±0.003% 12.5 kHz 20/25 kHz	±0.005% 12.5 kHz 20/25 kHz
Spurs/Harmonics:	25 µW	25 µW	
Audio Response (From a 6 dB/Oct Pre-Emphasis 300 to 3000 Hz):	+1, -3 dB	+1, -3 dB	
Audio Distortion (@ 1000 Hz 60% Rated Max. Dev.):	<3%	<3%	
FM Noise:	-40 dB	-40 dB	
FCC Designation:	AB299F1304Z	AB299F1405Z	
FCC Modulation	16K0F1D 16K0F2D	16K0F3E 11K0F2D 11K0F3E	

* Typical power setting from factory.

Receiver Specifications

VHF		UHF	
Channel Spacing:	12.5 kHz 20/25/30 kHz	12.5 kHz 20/25 kHz	
Frequency Separation:	20 MHz	20 MHz	
Sensitivity* EIA 12 dB SINAD:	0.25 µV	0.25 µV	
Squelch*:	10 dB	10 dB	
Selectivity EIA:	-60 dB -70dB @ 30kHz	-60 dB -70dB @ 25kHz	
Intermodulation EIA:	-55 dB -60 dB	-55 dB -60 dB	
Frequency Stability: (-30°C to +60°C)	±0.003% ±0.005%	±0.003% ±0.005%	
Spur Rejection:	-60 dB	-60 dB	
Image Rejection:	-60 dB	-60 dB	
Rated Audio Output @ less than 3% dist.):	250 mW	250 mW	
Typical Audio Output @ less than 5% dist.):	500 mW	500 mW	
EIA Usable Bandwidth:	7.5 kHz	7.5 kHz	

* Typical specifications

Military Standards 810 C, D & E

Applicable MIL-STD:	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Rain:	506.1	1.2	506.2	1.2	506.3	1.2
Dust:	510.1	1	510.2	1	510.3	1
Vibration:	514.2	8.10	514.3	1	514.4	1
Shock:	516.2	1.2.5	516.3	1.4	516.4	1.4



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