



**ON-SITE TWO-WAY BUSINESS RADIOS AND ACCESSORIES**

# RVA50

## BUILT TOUGH TO DO BUSINESS BETTER

Motorola RVA50 two-way radios have the business smarts to help people work better together. They come with the right credentials to give business the competitive edge: exceptional quality, affordability and durability.

### **WORK TOGETHER EFFICIENTLY AND SAFELY**

Focus on the job with instant push-to-talk and customized channel announcements that keep your hands free. Now you'll know which channel and which department you are talking to without removing the radio from your belt.

### **CONNECT EASILY THROUGHOUT THE WORKPLACE**

The RVA50 radios make it easy to get the work done. A powerful speaker ensures clear communication, even in noisy conditions. Compact yet performance-packed, the RVA50 provides coverage up to 250,000 square feet or 20 floors.\*

A carry holster with swivel belt clip lets you rotate the radio to fit comfortably and move freely while picking up a tool or restocking a shelf. And the antimicrobial properties in the housing help prevent the growth of mold and germs on the surface of the radio – as you change shifts, pass on the portable confidently.

### **KEEP ON TALKING IN TOUGH CONDITIONS**

Military Standard 810 C, D, E, F and G plus IP54/55 may be the standards for other radio manufacturers, but they are the starting point for our RVA50 radios. These radios undergo Motorola's unique Accelerated Life Testing (ALT). This rigorous laboratory testing simulates up to 5 years of field use. We design and engineer the RVA50 right the first time to minimize costly repairs and downtime.

### **MOVE FROM EP150 TO RVA50 SEAMLESSLY**

The HTML-based Customer Programming Software is so easy to use, it works with any computer browser, operating under MS Windows®. You can also quickly copy settings between the RVA50 or between EP150 only using the radio-to-radio cloning cable or through the multi-unit charger. Plus you can re-use your EP150 audio accessories to unleash the power of your RVA50 radios.

\* Coverage will vary based on terrain, conditions and the radio model used.

**PRODUCT SPEC SHEET**  
RVA50 RADIOS AND ACCESSORIES

**GENERAL SPECIFICATIONS**

<b>RVA50</b>		
Frequency Range	UHF (450 to 470 MHz)	VHF (150-161.05 MHz)
Audio Output	1500 mW	
Channel Capacity	8 Channels	8 Channels
Channel Bandwidth	12.5kHz/25 KHz	12.5kHz/25 KHz
<b>DIMENSIONS WITH:</b> Standard Li-Ion Battery High Capacity Li-Ion Battery	4.5H/2.2W/1.6Din (115.6H/57.6W/40.5Dmm) 4.5H/2.2W/1.6Din (115.6H/57.6W/40.5Dmm)	
<b>WEIGHT WITH:</b> Standard Li-Ion Battery High Capacity Li-Ion Battery	8.6 oz (244g) 8.7 oz (247g)	8.9 oz (252g) 9.0 oz (255g)
<b>AVERAGE BATTERY LIFE @ 5/5/90 (with Battery Save On):</b> with Standard 2100 mAh Li-Ion Battery High Capacity 3000 mAh Li-Ion Battery	Up to 15 hours with battery save on or up to 12 hours without battery save. 5/5/90 time Up to 20 hours with battery save on or up to 15 hours without battery save. 5/5/90 time	
Battery Voltage	3.7V Li-Ion	

**RECEIVER**

Sensitivity (12 dB SINAD)	-122 dBm (0.18 µV)
Adjacent Channel Selectivity	70 dB @ 12.5 kHz 75 dB @ 25 kHz
Intermodulation Rejection	70 dB
Spurious Response Rejection (blocking 1 MHz)	90 dB
Audio Distortion	< 5%
CSQ Hum and Noise @ 12.5 kHz	-50 dB
PL Hum and Noise @ 12.5 kHz	-50 dB
DPL Hum and Noise @ 12.5 kHz	-45 dB
Spurious Emissions (< 1 GHz)	< -54 dBm
Spurious Emissions (> 1 GHz)	< -52 dBm
Audio Output @ < 5% Distortion	1.5W @ 8 ohms

**TRANSMITTER**

High Power (Conducted)	2 Watts
Low Power (Conducted)	1 Watt
Frequency Stability	< 1.5 ppm
Spurs and Harmonics	< -45 dB
FM Hum and Noise	-36 dbm for f < 1GHz, -30 dbm for f > 1GHz
Modulation Limiting	±2.5 kHz @ 12.5 kHz ±5.0 kHz @ 25.0 kHz
Adjacent Channel Power	70 dBc
Spurious Emissions @ 12.5 kHz	-36 dbm for f < 1GHz, -30 dbm for f > 1GHz
Spurious Emissions @ 25 kHz	-36 dbm for f < 1GHz, -30 dbm for f > 1GHz
Audio Frequency Response (0.3 - 3.0 kHz)	+1 to -3 dB
Audio Distortion	< 2%

**MILITARY SPECIFICATIONS**

Standard	MIL 810 C Methods/ Procedures	MIL 810 D Methods/ Procedures	MIL 810 E Methods/ Procedures	MIL 810 F Methods/ Procedures	MIL 810 G Methods/ Procedures
Low Pressure	500.1 / Procedure 1	500.2 / Procedure 1,2	500.3 / Procedure 1,2	500.4 / Procedure 1,2	500.5 / Procedure 1,2
High Temperature	501.1 / Procedure 1,2	501.2 / Procedure 1,2	501.3 / Procedure 1,2	501.4 / Procedure 1,2	501.5 / Procedure 1,2
Low Temperature	502.1 / Procedure 1	502.2 / Procedure 1,2	502.3 / Procedure 1,2	501.4 / Procedure 1,2	501.5 / Procedure 1,2
Temperature Shock	503.1 / Procedure 1	503.2 / Procedure 1	503.3 / Procedure 1	503.4 / Procedure 1,2	503.5 / Procedure 1
Solar Radiation	505.1 / Procedure 1	505.2 / Procedure 1	505.3 / Procedure 1	505.4 / Procedure 1	505.5 / Procedure 1
Rain	506.1 / Procedure 1,2	506.2 / Procedure 1,2	506.3 / Procedure 1,2	506.4 / Procedure 3	506.5 / Procedure 3
Humidity	507.1 / Procedure 1,2	507.2 / Procedure 2,3	507.3 / Procedure 2,3	507.4	507.5 / Procedure 2
Dust	510.1 / Procedure 1	510.2 / Procedure 1	510.3 / Procedure 1	510.4 / Procedure 1,3	510.5 / Procedure 1
Vibration	514.2 / Procedure 8,10	514.3 / Procedure 1	514.4 / Procedure 1	514.5 / Procedure 1	514.6 / Procedure 1
Shock	516.2 / Procedure 1,2,5	516.3 / Procedure 1,4	516.4 / Procedure 1,4	516.5 / Procedure 1,4	516.5 / Procedure 1,4

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	-30°C to +60°C (Radio)
Sealing	IP55
Shock and Vibration	Per MIL standards
Dust and Humidity	Per MIL standards

All Specifications subject to change without notice.

To learn more about the radio that's built tough to do business better, visit [motorolasolutions.com/RVA50](http://motorolasolutions.com/RVA50)

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2014-07

