



MOTOROLA VLR150 TWO-WAY RADIOS

In today's competitive business environment, easy, quick and affordable communication is very important. The VLR150 is designed to enable quick, onetouch communications leading to increased productivity and great customer service.

SIMPLIFY DAILY TASKS

The VLR150 radios are remarkably intuitive to use. At the touch of a button, you can communicate with individual employees or a group of employees. With little to no training required, it is ideal for high employee turnover industries. It will help you eliminate wasted time and inefficient processes.

REDUCE COSTS

Utilize resources more efficiently and productively, and get the most out of your employees. Plus, there are no monthly fees or service contracts to worry about. Employees can communicate as often as necessary without worries about airtime.

OFFER BEST IN CLASS CUSTOMER SERVICE

Customer needs will be better and more quickly served by enabling instant communication between employees. Increase customer as well as employee satisfaction.

PERFECT FOR YOUR BUSINESS, WHETHER IT BE A RETAIL, GROCERY, RESTAURANT OR HOTEL

Raise the level of customer service by enabling communications instantly. All activities, from welcoming customers to addressing their requests, are enhanced with VLR150 radios.

In retail or grocery stores, cashiers can perform price checks at a moment's notice. Employees can instantly check stock when customers ask. In restaurants, VLR150 radios allow hosts, managers, kitchen and wait staff to instantly connect, minimizing wait times, getting food out quicker and controlling the pace of large parties. In hotels, coordinate restaurant and hotel staff, event planners, security, cleaning and maintenance personnel through efficient communication with minimal guest interference. The VLR150 radios make everything from arrival to departure seamless.

PRODUCT SPEC SHEET

VLR150

| GENERAL SPECIFICATIONS | | VLR150 |
|---|------------------------------|------------------------------|
| Frequency Range | | UHF 459.5 - 469.5 |
| Channel Capacity | | 4 |
| Channel Bandwidth | | 12.5 kHz / 25 kHz selectable |
| PL Codes | | 38 |
| DPL Codes | | 83 |
| Range Coverage ¹ | | 200,000 sq ft / 18,580 sq m |
| Average Battery Life @ 5/5/90 | | 14 hours |
| Radio Dimensions (H x W x D): | | 4.1"x2.0"x1.1" inches |
| Weight | | Less than 5 oz. |
| TRANSMITTER | | |
| RF Output | Conducted into 50 Ohms | 1.0 Watts |
| Frequency Stability | | < 2.0 ppm |
| Spurs & Harmonics | | < -45 dBc |
| FM Hum & Noise | @ 12.5kHz without Companding | -40 dB |
| | @ 25.0kHz | -45 dB |
| Modulation Limiting | @ 12.5kHz | ± 2.5kHz |
| | @ 25.0kHz | ± 5kHz |
| Adjacent Channel Power | | 60dBc |
| Radiated Spurious Emissions | @ 12.5kHz | < -20dbm |
| | @ 25.0kHz | < -20dbm |
| Audio Frequency Response (0.3 - 3.0 kHz) | | +1 to -3 dB |
| Audio Distortion | | < 2% |
| RECEIVER | | |
| Sensitivity(12 dB SINAD) | | -122 dBm (0.18 uV) |
| Adjacent Channel Selectivity | @ 12.5kHz | 65 dB |
| | @ 25.0kHz | 70 dB |
| Intermodulation rejection | | 60dB |
| Spurious response Rejection (blocking 1Mhz) | | 85 db |
| Audio Distortion | | < 5% |
| CSQ Hum & Noise @ 12.5kHz / 25 kHz | | -50dB |
| PL Hum & Noise @ 12.5kHz | | -45dB |
| DPL Hum & Noise @ 12.5kHz / 25 kHz | | -45dB |
| Radiated Spurious Emissions (< 1GHz) | | < -54 dBm |
| Radiated Spurious Emissions (> 1GHz) | | < -52 dBm |
| Audio Output @ <5% Distortion | | 0.5W @ 8 ohms |

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| MILITARY STANDARDS | | | | | | | | | | |
|---------------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|
| | 810C | | 810D | | 810E | | 810F | | 810G | |
| | METHOD | PROCEDURES |
| Low Pressure | 500.1 | I | 500.2 | I, II | 500.3 | I, II | 500.4 | I, II | 500.5 | I, II |
| High Temperature | 501.1 | I, II | 501.2 | I, II | 501.3 | I, II | 501.4 | I, II | 501.5 | I, II |
| Low Temperature | 502.1 | I | 502.2 | I, II | 502.3 | I, II | 502.4 | I, II | 502.5 | I, II |
| Temperature Shock | 503.1 | I | 503.2 | I | 503.3 | I | 503.4 | I, II | 503.5 | I |
| Contamination by Fluids | | | | | | | | | 504.1 | II |
| Solar Radiation | 505.1 | I | 505.2 | I | 505.3 | I | 505.4 | I | 505.5 | I |
| Rain | 506.1 | I, II | 506.2 | I, II | 506.3 | I, II | 506.4 | III | 506.5 | III |
| Humidity | 507.1 | I, II | 507.2 | II, III | 507.3 | II, III | 507.4 | | 507.5 | II |
| Blowing Dust | 510.1 | I | 510.2 | I | 510.3 | I | 510.4 | I, III | 510.5 | I |
| Vibration | 514.2 | VIII, X | 514.3 | I | 514.4 | I | 514.5 | I | 514.6 | I |
| Shock | 516.2 | I, II, V | 516.3 | I, IV | 516.4 | I, IV | 516.5 | I, IV | 516.6 | I, IV |

VLR150 radios meet test methods from Military Standards 810 C, D, e, F, and G for 11 items including shock, vibration, extreme temperatures and dust. VLR150 radios also satisfy environmental and energy efficiency certifications (Ce/CeC, rOHs and Weee).

| ENVIRONMENTAL SPECIFICATIONS | |
|--|--|
| Operating Temperature | -30°C to +60°C (Radio) |
| Storage Temperature | -40°C to +85°C (Radio) |
| Shock & Vibration | Per MIL STDs 5 foot drop to concrete |
| Dust & Humidity | Per MIL STDs IP5X IPX2 |
| Enclosure Rating | Designed to meet NEMA ² types 1, 2, 5 |
| FCC (Federal Communications Committee) Designation: AZ489FT4860. IC (Industry Canada) Designation: 109U-89FT4860 | |

For more information, visit our pages
www.motorolasolutions.com/caribbean/vlr150

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¹ Range will vary based on terrain and conditions.

² National Electrical Manufacturers Association

VLR150 radios' tough polycarbonate housings contain built-in antimicrobial properties that inhibit the growth of bacteria and mold on the radio surfaces (does not include accessories).

VLR150 chargers and power supplies are ROHS and CEC (California Energy Commission) Power Level V energy efficient compliant.

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