



## Boost your mobile team's productivity with DispatchPlus.

When it comes to managing mobile workers, nothing is more critical than communication. With the DispatchPlus robust Workforce Management Solution from pdvWireless, it's easier than ever to connect with your mobile workers and boost productivity. The rugged Motorola SL™ 7590 Digital Two-Way Portable Radio includes our full suite of high-productivity features running on the only nationwide network designed for business. You can communicate and collaborate with ease and efficiency... no matter how demanding the environment.

### Convey critical information with the touch of a button

Field workers can convey critical information to the office with voice and time stamp through the touch of a button. Customer-defined subject lines like "Job Complete" or "Service Outage" eliminate calls to the office, helping busy managers prioritize responses and implement scheduling changes to maximize field productivity.

### Communicate simply with Voice Documentation

Capture, report and resolve customer and company-impacting situations with Voice Documentation. Easily record detailed logistics that pertain to a job or customer interaction with the simple push of a button. Voice documentation eliminates the manual entry of illegible reports and forms, and can easily be integrated with your CRM solution for future use.



*pdvWireless delivers proven push-to-talk solutions, provided through our own nationwide network dedicated exclusively to business. We help mobile workforces connect more reliably and efficiently than ever before.*

From the concierge desk to the convention center, MOTOTRBO™ SL Series keeps you instantly connected and in control with an incredibly sleek and light radio for the ultimate in discreet communication.

Versatile and powerful, our revolutionary MOTOTRBO portable combines the best of two-way radio functionality with the latest digital technology. SL Series radios integrate voice and data seamlessly and offer enhanced features that are easy to use, such as integrated Bluetooth®, covert mode, vibrate alert and Intelligent Audio. Designed in an ultra-thin form factor so sophisticated, it is like no other radio you have used.

Only the SL Series enhances your professionalism, so you can remaster your productivity and image like never before.

### Discreet was never so sleek

Everything about the SL 7590 portable is designed for discretion and professionalism. From its incredibly sleek shape – so your staff will always look professional – to its exceptionally slim size. Hold it in your hand and feel how light it is – less than half the weight of a standard radio. It's so effortless to carry, comfortable to wear and elegant in styling, it complements the most upscale attire.

### Audio beyond expectations

When it comes to exceptional audio clarity, the quality of digital can't be surpassed. With the SL 7590 portable, you get digital quality plus unique features to help your employees hear and speak clearly, wherever they work.

With the Intelligent Audio feature, the radio's volume automatically adjusts to compensate for background noise so managers won't miss a call on the manufacturing floor or disturb others when they return to the main office. The radio's background noise suppression software filters out external clamor – from crowded conventions to bustling airport gates. And Bluetooth® audio, embedded right in the radio, provides wireless voice communication with outstanding clarity and discretion.

### Industry-leading data

Whether the front desk is assisting a guest or the event planner is preparing for a special event, sharing information instantly is paramount. The SL 7590 features text messaging and embedded Bluetooth® data right in the radio so work teams can share real time information, saving valuable hours and enabling better decision making. Plus your staff can read work order tickets and text messages quickly and clearly on the large, high-resolution, full-color screen.

Combined with pdv Mobile Resource Management solution, the SL7590 demonstrates true efficiency. Work Orders and job reports can be completed in one easy step.

### Exceptionally intuitive

The high-resolution, full-color screen on the SL 7590 portable automatically senses ambient light and adjusts backlighting for optimal viewing in all kinds of conditions. It also features a full keypad and an enhanced programmable button that manages up to nine frequently used features. Press a button and access all of your contacts or check the status of a work ticket with just a touch.


Customizable voice announcement provides audible confirmation so a user can be notified of channel and zone changes or programmable button statuses without having to view the radio display. And for discretion, they can use the vibrate alert feature to switch the radio to vibrate mode and never disturb or interrupt guests again.

### Remarkably reliable


The SL 7590 meets demanding specs, including IP54 for dust and water protection and U.S. Military 810 C, D, E and G. Moreover, it has been proven tough in Motorola's grueling Accelerated Life Test program, in which the design must survive a simulated 5 years of hard service before it is accepted.




**KEEP YOUR BUSINESS RUNNING SMOOTHLY WITH INCLUDED BUSINESS APPLICATIONS:**

 **DispatchPlus Mobile Resource Management**  
for faster customer response.


 **Integrated Bluetooth®**  
for sharing data wirelessly and instantly between devices.

 **Web Based Dispatch consoles**  
to locate and communicate with your mobile workers.

 **Deliver a PTT Call**  
to 50 email addresses or mobile phones.

 **Text messaging**  
for quick and discreet communication.

#### OPTIONAL

 **Man-down applications**  
so radios call for help when workers can't.

## SL 7590 SPECIFICATIONS

### GENERAL SPECIFICATIONS

SL 7590 900 MHz		
Channel Capacity	1000	
Frequency	896-902 MHz and 935-941 MHz	
BT70 Li-ion (1400 mAh) Battery	Height (H) x Width (W) x Thickness (T)	4.76 x 2.17 x .68 inches (121 x 55 x 17.4 mm)
	Weight	5.39 oz / 153 g
BT90 Li-ion (1800 mAh) Battery	Height (H) x Width (W) x Thickness (T)	4.76 x 2.17 x .78 inches (121 x 55 x 19.8 mm)
	Weight	5.82 oz / 165 g
Power Supply	3.7 V (Nominal)	
Operating Temperature	-20 °C <sup>1</sup> to +60 °C	
FCC Description	AZ89FT5867	
IC Description	109U-89FT5867	

### TRANSMITTER

Frequencies	896-902 MHz and 935-941 MHz	
Channel Spacing	12.5 kHz	
Frequency Stability	±1.5 ppm	
Power Output	High Power Output	2 W
	Low Power Output	1 W
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D & 7K60FXD	
	12.5 kHz Voice: 7K60F1E & 7K60FXE	
	Combination of 12.5 kHz Voice and Data: 7K60F1W	
Conducted/Radiated Emission (TIA603D)	-36 dBm < 1 GHz / -30 dBm > 1 GHz	
Digital Vocoder Type	AMBE+2™	
Digital Protocol	ETSI TS 102 361 -1,-2,-3	

### BATTERY

Average Battery Life	Digital, conventional operation, 5/5/90 duty cycle with transmitter in high power <sup>2</sup>
BT70 Li-ion (1400 mAh) Battery	8.5 hrs
BT90 Li-ion (1800 mAh) Battery	11.3 hrs

### RECEIVER

Frequencies	935-941 MHz
Channel Spacing	12.5 kHz
Frequency Stability	±1.5 ppm
Digital Sensitivity	5% BER @ 0.25 uV (0.19 uV typical)
Rated Audio	0.5 W
Conducted Spurious Emission (TIA603D)	-57 dBm

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20 °C <sup>1</sup> to +60 °C
Storage Temperature	-30 °C to +70 °C
Thermal Shock	Per MIL-STD
Humidity	+50 °C, 90-95% RH, 8 hrs
ESD	IEC 61000-4-2
Dust and Water Intrusion	IP54
Salt Fog	8 hrs exposure to 5% saline solution (sodium chloride) at 35 °C, 16 hours standing period
Packaging Test	MIL-STD 810D and E

### BLUETOOTH®

Version	Supports Bluetooth® 2.1 + EDR Specification
Range	Class 2, 10 meters

### MILITARY STANDARDS

APPLICABLE MIL-STD	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I/A1, II/A1
Low Temperature	-	-	502.2	I/C1, II/C1	502.3	I/C1, II/C1	502.4	I/C1, II/C1	502.5	I/C1, II/C1
Temperature Shock	-	-	503.2	I/A1/C1	503.3	I/A1/C1	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I/A1
Rain	506.1	I	506.2	I	506.3	I	506.4	I	506.5	I
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, III/3	514.5	I/24	514.6	I/24
Shock	516.2	II	516.3	IV	516.4	IV	516.5	IV	516.6	IV, VI

<sup>1</sup> Radio only - Li-ion battery -10 °C

<sup>2</sup> Actual battery runtime observed may vary based on the use of certain features such as Bluetooth® and Option Board based applications.

Battery life for trunking operation may be up to 30% less than for conventional operation.

Please contact your Motorola sales representative for battery runtime expectations based on your specific radio configuration.

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

Radio meets applicable regulatory requirements.  
Version 2 6/13



## Features at-a-glance

1. Dual internal speakers deliver loud, clear audio quality
2. Tri-color LED indicator for clear, visible feedback of calling, scanning, roaming and monitoring features
3. Contoured push-to-talk button provides comfort and is easy to access
4. Four-way navigation disk for easy scrolling through menus and channels (supports up to 1,000 channels)
5. Three programmable option buttons for quick access to frequently used features; ability to program up to nine of your favorite features into a single programmable button; also supports emergency call
6. Audio connector port supports discreet wired audio accessories (wireless Bluetooth® audio also available)
7. Built-in photosensor automatically adjusts backlighting on the screen to optimize viewing in all types of conditions; special “day/night mode” changes screen and illuminates icons to make them clear and readable in varying light conditions
8. Large, high-definition, five-line, color display offers high clarity and resolution
9. Intelligent Audio feature automatically adjusts the radio volume according to the environment’s noise level
10. Innovative antenna design optimizes range performance

## Standard Package

- Five-line color display portable radio
- Carry holder
- Compact Li-ion battery
- Battery cover
- Two-year standard warranty

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Radio meets applicable regulatory requirements.

**MOTOTRBO™**  
DIGITAL REMASTERED.