



**DIGITAL MADE EASY**

# DLR DIGITAL BUSINESS RADIO

The ability to communicate and solve problems in real time is the cornerstone of good business operations. With the Motorola DLR digital radio, your team can quickly and easily communicate to improve operational efficiencies, solve problems rapidly, address unexpected situations and improve customer satisfaction. This lightweight radio, with its sleek styling, is a simple yet powerful collaboration tool. Its unique features will take your organization to a new level of performance and operational excellence.

## **CLEAR, RELIABLE COMMUNICATIONS**

With the DLR digital technology you speak clearer and louder across an extended range without static. Because the radios are digital, talk farther and clearer up to the edge of coverage. A real advantage over analog technology. The design of this radio has your operations in mind. It is intuitive, simple to use and convenient to carry.

## **LICENSE FREE, HASSLE FREE**

Designed for business operations, the DLR two-way radio is hassle free, meeting your needs and expectations. Free your time from regulatory paperwork and licensing applications. Reduce your costs by saving on frequency and radio licensing fees.

## **INTERFERENCE FREE, PRIVATE COMMUNICATIONS**

It can be very distracting to hear other conversations especially if those are not within your organization. Equally frustrating is to have your communications heard by others. The DLR radio gives you peace of mind and keeps your team focused on the task, by making your communications more private.

The digital DLR radio protocol leverages Frequency Hopping Spread Spectrum (FHSS) technology, which makes communication more reliable and private when compared to standard analog radios.

To take advantage of Private Communications, you can quickly set up your radio fleet with a unique Radio Profile ID Number. By choosing from 10,000 available codes, you can assure privacy from other neighboring radios.



"I manage a full service restaurant, a bowling alley with a bar and a 250-seat event space within a 650,000 square foot restored mall. With each space on a different floor, I was concerned about the radios' range and sound quality in such a large building. The DLR radio has allowed us to communicate instantly across all three spaces, saving time and increasing efficiency."

Elliot Miller General Manager,  
Hope Springs Eternal LLC.

# GET ORGANIZED WITH FLEXIBLE COMMUNICATIONS

DLR radios are more than a simple push-to-talk solution. Get things done efficiently by choosing from several call options that tailor the functionality to the operational performance of your organization.

## PRIVATE REPLY

Free-up the radio channel by allowing two people to instantly connect privately after a group transmission is complete using the private reply feature. This eliminates unnecessary group chatter. You no longer have to look for the phone extensions to talk privately. Simply identify the name of the person you want to talk to and when they respond, push the radio top button to start the communication.

## DIRECT CALL

In some organizations, it is critical for an employee to quickly access the manager on duty. By programming the top button to Direct Call, you can easily reach a specific individual, enabling instant communication and an immediate response.

## PAGE ALL AVAILABLE AND CALL ALL AVAILABLE

It can be difficult to communicate to an entire group without having to go to each channel individually. The Page All Available and Call All Available feature provides you the flexibility to communicate a message to everyone who is not currently tied up in a conversation. Simply program this feature into the top button or set it to an unused channel.

## INSTANT MUTE FEATURE

Immediately lower your radio volume to the minimum level by simply pressing the radio top button. Use this feature when you need to listen to a customer without interruptions. Quiet background radio communications can still be heard and will remind you to return to normal channel activity.

## FLEXIBLE. STYLISH. EASY TO OPERATE.

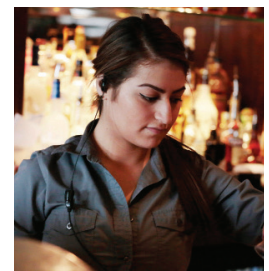
|                                    |                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TALK PERMIT TONE</b>            | Promotes orderly communication through the use of a prompt tone that alerts team members when a channel is available and they can speak.                                                                                                                                                                                                                                                      |
| <b>HOME CHANNEL</b>                | Designates a specific channel as "home" so the radio automatically reverts back if the user was speaking on a different channel. This feature can be easily modified through the radio Advanced Configuration Menu.                                                                                                                                                                           |
| <b>VOICE PROMPTS</b>               | Navigate easily through channels, check battery status and customize features in Advanced Configuration Menu with user friendly voice prompts.                                                                                                                                                                                                                                                |
| <b>EXTENDED TALK RANGE</b>         | Communicate across an extended range of 300,000 sq ft and up to 20 floors*. With digital technology, you can communicate clearly up to the edge of coverage without the static often found on analog radios.                                                                                                                                                                                  |
| <b>ADVANCED CONFIGURATION MENU</b> | Configure special features such as a unique Radio Profile ID, Home Channel, MIC Gain and maximum number of channels. It also allows you to customize the Top Programmable button with different options such as Private Reply and Call All Available. Refer to the User Guide instructions for more details: <a href="http://www.motorolasolutions.com/DLR">www.motorolasolutions.com/DLR</a> |
| <b>CPS PROGRAMMING SOFTWARE</b>    | Personalize your channel voice prompts, channel alias names, radio name, top button, channel number and much more by using the free Computer Programming Software available at: <a href="http://www.motorolasolutions.com/DLR">www.motorolasolutions.com/DLR</a>                                                                                                                              |
| <b>LONG BATTERY LIFE</b>           | Provides long lasting battery life for continuous operation of up to 14 hours.                                                                                                                                                                                                                                                                                                                |
| <b>RELIABLE AND DURABLE</b>        | DLR radios meet test methods from Military Standards 810 C, D, E, F and G, including shock, vibration, extreme temperatures and dust. Tough, polycarbonate housing contains built-in antimicrobial properties that inhibit the growth of bacteria and mold on the radio surfaces.                                                                                                             |

\*Coverage depends on terrain and environmental conditions.



### RETAIL STORES

Easily locate a clerk to check stock and coordinate restocking operations.



### RESTAURANTS

Ensure tables are ready quickly and customers enjoy their dining experience by seamlessly communicating with restaurant staff.



### EDUCATION

Organize school events and activities efficiently by enabling constant communication among staff members.



### HEALTHCARE

Improve coordination among ER staff and ensure quick response by facilitating efficient and private communications.

# WIDE RANGE OF ACCESSORIES COMPLEMENT THE DLR RADIO FOR ENHANCED PERFORMANCE

| PART NUMBER | DESCRIPTION                                               |                                                                                     |                                                                                                                                                                                                                                                    |
|-------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HKLN4599    | Earpiece with in-line microphone and push-to-talk         |    | Comfortable for extended wear, this compact and durable accessory allows users to receive communication discreetly. This d-style earpiece has an in-line microphone and push-to-talk button for convenient and quick radio access while on the go. |
| HKLN4601    | Surveillance Kit with in-line microphone and push-to-talk |    | Single-wire earpiece with a combined microphone and push-to-talk offers transmit and receive capabilities and includes a clear acoustic tube and rubber eartip for comfort in extended wear.                                                       |
| HKLN4604    | Swivel Earpiece with in-line microphone and push-to-talk  |    | Comfortable flexible earpiece is designed for all-day wear. Its in-line push-to-talk feature makes communication easy when your radio is not readily accessible.                                                                                   |
| HKLN4606    | Remote Speaker Mic                                        |   | Remote speaker microphone easily clips onto a shirt or collar, allowing you to speak and listen without having to reach for your radio.                                                                                                            |
| HKLN4615    | DLR Belt Clip Holster                                     |  | Swivel holster allows you to wear the radio on your belt, leaving your hands free for the job on hand.                                                                                                                                             |
| PMLN7136    | DLR 12-Pocket Multi-Unit Charger (MUC)                    |  | 12-Pocket Charger with its sleek design allows you to charge simultaneously up to 12 radios or 6 radios and 6 batteries.                                                                                                                           |
| PMLN7140    | DLR Single-Unit Charger (SUC)                             |  | Single unit charger with its small footprint is ideal for personal use. Charge the battery by itself or while inside the radio.                                                                                                                    |
| HKNN4013    | BT90 Battery                                              |  | Li-ion 1800 mAh, 3.7v                                                                                                                                                                                                                              |

## ENVIRONMENTAL AND MIL STD

| MILITARY STANDARDS | Mil Std. 810 C- G |          |         |         |         |         |         |        |         |       |
|--------------------|-------------------|----------|---------|---------|---------|---------|---------|--------|---------|-------|
|                    | METHOD            | PROC.    | METHOD  | PROC.   | METHOD  | PROC.   | METHOD  | PROC.  | METHOD  | PROC. |
|                    | 810 - C           |          | 810 - D |         | 810 - E |         | 810 - F |        | 810 - G |       |
| 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, II    | 502.2   | I, II   | 502.3   | I, II   | 502.4   | I, II  | 502.5   | I, II |
| Temperature Shock  | 503.1             | I        | 503.2   | I, II   | 503.3   | I       | 503.4   | I, II  | 503.5   | I     |
| Solar Radiation    | 505.1             | I        | 505.2   | I       | 505.3   | I       | 505.4   | I      | 505.5   | I     |
| Humidity           | 507.1             | I, II    | 507.2   | II, III | 507.3   | II, III | 507.4   |        | 507.5   | III   |
| 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 |

DLR radios meet test methods from Military Standards 810, C,D,E,F and G including shock, vibration, extreme temperatures and dust. DLR radios also satisfy environmental and energy efficiency certifications (CE/CEC, ROHS and WEEE).

### ENVIRONMENTAL SPECS

|                       |                                     |
|-----------------------|-------------------------------------|
| Operating Temperature | -30°C to +60°C (Radio)              |
| Storage Temperature   | -40°C to +85°C (Radio)              |
| Shock & Vibration     | 5 foot drop to concrete             |
| Dust & Humidity       | IP5X IPX2                           |
| Enclosure rating      | Designed to meet NEMA types 1, 2, 5 |

### FEATURES

DLR's tough polycarbonate housing contain built-in anti-microbial properties that inhibit the growth of bacteria and mold on the radio surfaces (does not include accessories)\*\*

### CHARGERS

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

| DLR                               |                                                                                                                                                                   |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GENERAL SPECIFICATIONS            |                                                                                                                                                                   |
| Channels                          | DLR1020: 2 Channels / DLR1060: 6 Channels                                                                                                                         |
| Frequency                         | 900 MHz ISM FHSS                                                                                                                                                  |
| Range Coverage                    | 300K sq ft<br>20 floors*                                                                                                                                          |
| Licensed Free Band                | Licensed by the Federal Communications Commission (FCC) and Industry Canada to operate in the license-free 900 MHz ISM (Industrial, Scientific and Medical) band. |
| Radio Dimensions (H x W x D)      | 4.2" x 1.7" x 0.9"                                                                                                                                                |
| Weight                            | 4.2 oz                                                                                                                                                            |
| ENERGY SPECIFICATIONS             |                                                                                                                                                                   |
| Battery                           | 3.7V ± 0.5V                                                                                                                                                       |
| Battery Life with BT90 (1800 mAh) | 14 hours @ 5/5/90 duty cycle                                                                                                                                      |
| Charging Time for BT90 (1800 mAh) | < 3.5 hours                                                                                                                                                       |

| DLR                                     |                              |
|-----------------------------------------|------------------------------|
| RECEIVER SPECIFICATIONS                 |                              |
| Preamble Sensitivity                    | -125 dBm                     |
| Frequency Stability: (-30° C to +60° C) | ± 1PPM                       |
| RX Spur Emissions - radiated            | < 43.5dBuV/m (3m)            |
| Blocking Immunity: ±500 KHz to ±1 MHz   | 75 dB                        |
| Blocking Immunity: ±1MHz to ±15 MHz     | 80 dB                        |
| Audio Output @ < 5% Distortion          | 0.75W                        |
| TRANSMITTER SPECIFICATIONS              |                              |
| RF Output                               | 1W                           |
| Channel Spacing                         | 50 kHz                       |
| Frequency Stability: (-30° C to +60° C) | ± 1PPM                       |
| TX Spurious Emissions - radiated        | < 54dBuV/m (3m)              |
| Audio Distortion                        | < 3%                         |
| TX ACPR                                 | -50 dBc                      |
| FCC Modulation                          | 8-level FSK 900 MHz ISM FHSS |

\*Coverage depends on terrain and environmental conditions

\*\* The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always clean this product thoroughly before and after each use. Does not apply to accessories.

For more information, please visit us at [motorolasolutions.com/DLR](http://motorolasolutions.com/DLR)

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