

# DTR™ 620

# DIGITAL ON-SITE

# TWO-WAY RADIO





# ARE YOU READY TO STAY ON TASK AND ON TIME, EVERY TIME?

## YOU CAN WITH THE DTR 620 DIGITAL ON-SITE TWO-WAY RADIO FOR SMALL BUSINESS

The better your team communicates, the more efficiently it operates. That's why Motorola Solutions DTR Series digital on-site two-way radios are the ideal power tools that enable that communication. Unlike alternative technologies, there are no monthly fees, no service towers, and no per-minute charges. These durable on-site two-way radios help businesses keep operations on schedule, maximize job shift productivity, enhance security, and increase overall customer satisfaction.

What would two-way radios have to provide to be perfect for your on-site operation? The ability to call specific groups of radios — or even a single unit? Perhaps extended coverage or longer operation on a single charge. Remarkably, you get all that productivity-enhancing capability—and more—with the DTR 620 radio.

You also get many other benefits, too, including digital audio quality—which stays loud and clear everywhere you go.

## GET READY TO EXPERIENCE THE DIGITAL DIFFERENCE

Enhanced coverage, battery life, and audio quality aren't the only advantages of our new digital on-site two-way radios. No license may be required to operate our 900 MHz radios. And for enhanced security, we've added Frequency Hopping Spread Spectrum (FHSS) with 50 non-overlapping groups. Unlike analog radios, multiple group communications can occur simultaneously on the same channel.

In addition, you'll be able take advantage of many leading-edge operational features that weren't previously available. And you'll soon wonder how you managed without them.

Because the digital technology of the DTR 620 portable enables each radio to have its own unique 11-digit identification, you get a new level of radio communication versatility with these calling options:

### DIGITAL ONE-TO-ONE CALLING

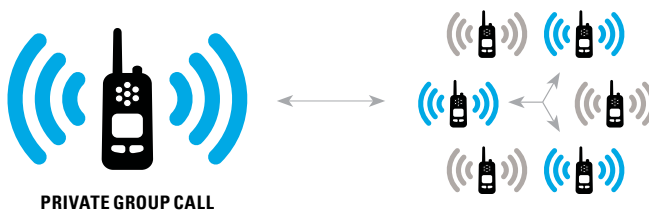
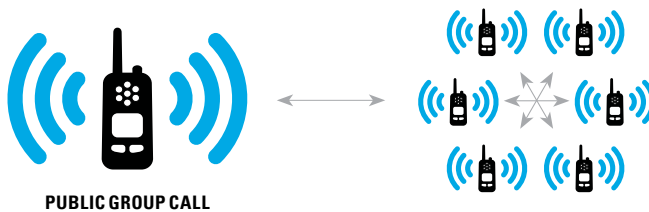
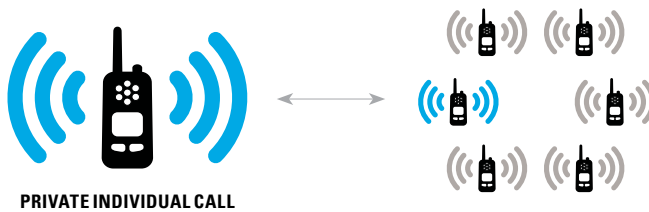
Allows you to call and talk privately with a specific user's radio. A private-call recipient can receive an alert —either an audible or vibrating signal. And the recipient's unit displays the caller's ID.

### DIGITAL ONE-TO-MANY CALLING

- **Public group call** — all other DTR Series radios on the same group ID and channel hear communications, similar to analog radio operation.
- **Private group call** — enables you to program DTR Series radios to communicate with specific sets of group members. Caller ID displays group identification.

Individual unit identification also enables:

- Call forwarding to other radio IDs—notify others that you're unavailable and allow them to speak with another contact for assistance.
- Transmit ID — receiving radios will display the radio ID of the transmitting unit and, if listed in the receiving radio's contact list, the transmitting unit's radio name.
- Short message service (SMS) text messaging — with ten preset messages for example, "I'll call you back in 5 minutes," and support for keyed-in custom messages to meet more specific needs.
- Scroll list — can display frequently used group and private IDs for easiest access. You can also view a recent-calls list, showing the source and target of the last 10 transmissions with time and date information. It all adds up to a superb combination of features for your convenience, management, and productivity all at an extraordinary value.



## DTR 620 RADIO FEATURES

### PRIVACY

- Private communications using frequency hopping spread spectrum (FHSS)
- Private call reception, return, origination (alert/VibraCall® vibration alert)
- Private group calling
- Private and group call name aliasing (via optional Mini Keyboard)
- Vibracall with accessories
- 2-pin audio accessory jack with captive connector cover
- Remote monitor and disable origination
- Remote-disable and remote-monitor receipt

### PERFORMANCE

- High-capacity lithium ion battery for up to 19 hours of operation per charge
- One-hour desktop charger
- Battery gauge
- Rugged, compact polycarbonate housing with rubber overmold for comfort — 5.2" H x 2.3" W x 1.4" D
- Meets military 810 C, D, E, and F specifications for shock, vibration, water, dust and temperature extremes
- Lightweight
- Improved on-site coverage
- Clear Audio
- Full-graphic backlit display with contrast adjustment and backlight timer
- Electronic on/off control
- Up/down electronic volume control
- 150-unit contact list
- Radio communication acknowledge
- Swivel carry holster

### EFFICIENCY

- 900 MHz ISM (902-907 MHz, 915-928 MHz) band
- Private Call
- Up to 20 private groups
- Public group calling
- Up to 50 public groups
- Caller ID
- Recent call list—last 10 transmissions
- Alert reminder tone
- Call forwarding
- Preprogrammed messages for quick and easy response
- Over-the-air ID transfer
- Unit-to-unit configuration cloning (via optional Cloning Cable)
- Over-the-air time and date update origination
- Over-the-air time/date update receipt

### DATA

- Capability for up to 25 preprogrammed messages (25 available and 10 preprogrammed)
- Short Message Service (SMS) text messaging reception and origination
- Free-form messages (via optional Mini Keyboard)
- SMS time/date stamping
- Computer based SMS desktop application

**PRIVACY**  
**PERFORMANCE**  
**EFFICIENCY**  
**DATA**

## EXCELLENCE IN DESIGN; EXCEPTIONAL DURABILITY

Rugged and reliable, the DTR 620 digital on-site radios undergo rigorous testing in the design process using U.S. Military 810 C,D,E and F Standards—so you can rest assured they will hold up under demanding conditions. These tests are designed to simulate the very harshest environments, including:

#### BLOWING RAIN

Steady rainfall and wind for 30 minutes on every surface

#### SALT FOG

48 hours of exposure

#### BLOWING DUST

Six hours of blowing dust on all surfaces

#### VIBRATION

Up to nine hours of exposure to vibration that simulates the rigors that a radio could undergo while being carried or transported

#### SHOCK

18 shocks with a minimum G force of 40 G each

#### TEMPERATURE STORAGE

Multiple hours of exposure to storage temperatures as low as -67° F and as high as 160° F





## DTR 620 RADIO ACCESSORIES



53964 High Cap Lithium Ion Battery



53963 Standard Capacity Lithium Ion Battery



53961 DTR Holster



53962 Drop In Charging Tray Base



RLN6423 Swivel Earpiece



53969 1-Hour Rapid Charging Power Supply



53960 Six Pocket Multi-Unit Charger



53815 Lightweight Headset with Boom Microphone



HMN9026 Remote Speaker Microphone



56518 D Style Earpiece with Boom Microphone



BDN6773 Headset with Swivel Boom Microphone



HMN8435 Earbud with Clip Microphone and PTT

(CONTINUES ON NEXT PAGE)

## DTR 620 RADIO ACCESSORIES (CONTINUED)



56517 D Style Earpiece with In-Line PTT Mic



53968 Cloning Cable



0105950U15 DTR Programming Cable



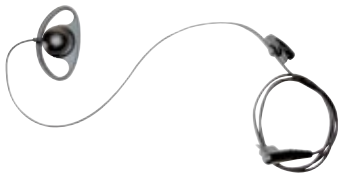
BDN6774 Earpiece with Microphone



HKLN4477 Surveillance Earpiece



HKLN4478 Transparent Acoustic Tube



53940 D Style In-Line Mic Earpiece



RMN5114 Lightweight Temple Transducer



HKPN4006 DTR Switch Mode Charger/  
Power Supply with Argentina Adapter



RLN6233 Argentina AC Pin Adaptor



HKPN4005 DTR Switch Mode Charger/  
Power supply with Brazil Adapter



RLN6448 Brazil AC Pin Adaptor

# DTR™ 620

## DIGITAL ON-SITE TWO-WAY RADIO SPECIFICATIONS

### GENERAL PERFORMANCE SPECIFICATIONS

Frequency	900 MHz ISM FHSS (902-907MHz, 915-928 MHz)
Contact List Capacity	150 (Shared Group/Private)
Default Programming	5 Public Groups
Power Supply	3.8V ± 0.4V
Dimensions	132.3mm H x 57.2mm W x 35.4mm D (5.2" H x 2.3" W x 1.4" D)
Weight with 1500 mAH Li-Ion Battery	205.7g (7.3oz.)
Average Battery Life @ 5-5-90 Duty Cycle: with 1500 mAH Li-Ion Battery	19 Hrs.

### RECEIVER

Sensitivity: (3% BER Sensitivity)	-125 dBm
Frequency Stability:	(-30° C to +60° C) ± 0.0005% (± 5PPM)
Spur Rejection	55 dB
Blocking Immunity: Interferer from ±500 KHz to ±1 MHz	75 dB
Interferer from ±1MHz to ±15 MHz	80 dB
Audio Output @ < 5% Distortion	1W

### TRANSMITTER

RF Output	1W
Channel Spacing	50 kHz
Frequency Stability: (-30° C to +60° C)	± 0.0005% (± 5PPM)
Spurs/Harmonics	500 uV/m ( 3m)
Audio Response: (from 6 dB/oct. Preemphasis, 300 to 30000 Hz)	+1, -3 dB
Audio Distortion @ 1000 Hz, 60% Rated Max. Dev.	<3%
TX ACCPR	-50 dBc
FCC Modulation	8-level FSK 900 MHz ISM FHSS

Accelerated  
Life Test



# MOTOROLA — A NAME YOU KNOW AND TRUST

For more than 80 years, Motorola has been a leader in creating state-of-the-art wireless communications. The DTR 620 digital on-site two-way radio upholds that superior standard. Each radio is backed by a limited two years warranty. Accessories are covered by a limited one year warranty. So when you select the DTR 620 radio, you'll experience the same exceptional quality you've come to expect from all Motorola products.

For more information visit:

<http://www.motorolasolutions.com/DTR620>

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2019 Motorola Solutions, Inc. All rights reserved.