

DTR™ 620

Digital On-Site Two-Way Radio



Do you speak digital?

The DTR 620 Digital On-Site Two-Way Radio for Small Business



The better a team communicates, the more efficiently it operates. Motorola DTR Series digital on-site two-way radios are the power tools that enable that communication. Unlike alternative technologies, there are no monthly fees. No service towers. No per-minute charges. Moreover, 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? Perhaps the ability to call specific groups of radios—or even a single unit. Or extended coverage, or longer operation on a single charge. Remarkably, you'll have all that productivity-enhancing capability—and more—in the DTR 620 radio.

You get many other benefits, too, including digital audio quality—which stays loud and clear everywhere you have coverage. And best of all, this pacesetting performance is yours without monthly fees or annual contracts—and at a very affordable price.

The Digital Difference

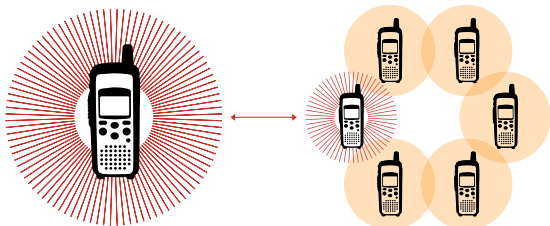
Why Motorola Digital On-Site Two-Way Radios Meet Your Needs Best

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 added Frequency Hopping Spread Spectrum (FHSS) with 50 non-overlapping groups. Unlike analog radios, multiple group communications can occur simultaneously on the same channel.

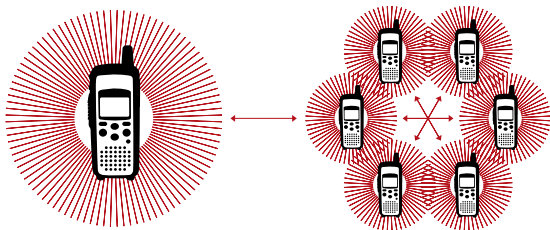
In addition to these overall benefits, you'll be able to take advantage of many leading-edge operational features that were never available previously. And you'll soon wonder how you managed without them.

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:

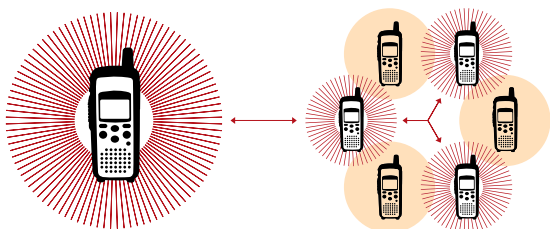
Privacy
Performance
Efficiency
Data



Private Individual Call



Public Group Call



Private Group Call

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

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

AUDIO ACCESSORIES



Lightweight Headset with Boom Microphone

Part #53815

Ideal for fast-paced work environments. Enables discreet operation.



Earbud with Clip Microphone and Push-to-Talk (PTT)

Part #53866

For convenience and uninterrupted productivity. Push-to-talk button activates microphone when you're ready to speak.



Remote Speaker Microphone

Part #53862

Convenient way to speak and listen without having to reach for your Motorola two-way radio. Clips on shirt or collar.



Earpiece with Inline Push-to-Talk (PTT) Microphone

Part #56517

Convenient earpiece enables communication without removing the radio from its holster. Push-to-talk button activates microphone when you're ready to speak.



Earpiece with Microphone

Part #53863

Fits over ear for clear reception even in noisy areas.



Headset with Swivel Boom Microphone

Part #53865

Ideal for noisy work areas or to avoid disturbing those around you. Convenient way to speak and listen without having to remove radio from its holster.



Earpiece with Boom Microphone

Part #56518

Convenient earpiece enables communication without removing the radio from its holster.

BATTERIES & CHARGERS



High Capacity Lithium Ion Battery

Part #53964

High capacity rechargeable battery provides up to 19 hours of battery life per full charge.



Vehicle Power Charger

Part #NNTN4679A

Conveniently plugs into a standard vehicle cigarette lighter port for remote charging.



Standard Capacity Lithium Ion Battery

Part #53963

Have a spare battery ready for when you need it. Rechargeable battery provides up to 14.5 hours of battery life per full charge.



Replacement Drop-In Charging Tray

Part #53962

An extra charger gives you even more places to recharge—at home, in the office, or while traveling. Recharge your radio wherever there is an electrical outlet available.



1-Hr Rapid Charger

Part #53969

Enables you to fully charge your DTR Series radio in 1 hour.



Multi-Unit Charger

Part #53960

Allows drop-in charging for up to six radios and/or batteries from a single outlet in three hours. This wall mountable unit also provides a central storage location for radios at the end of a workshift.



3-Hr Standard Charger

Part #NNTN4841A

Enables you to fully charge your DTR Series radio in 3 hours.



DTR 620 Radio Specifications

GENERAL PERFORMANCE SPECIFICATIONS

Frequency	900 MHz ISM FHSS (902-907 MHz, 915-928 MHz)
Contact List Capacity	150 (Shared Group/Private)
Default Programming	5 Public Groups
Power Supply	3.8V \pm 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 Hours

RECEIVER

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

TRANSMITTER

RF Output	1W
Channel Spacing	50 kHz
Frequency Stability: (-30° C to +60° C)	\pm 0.0005% (\pm 5PPM)
Spurs/Harmonics	500 μ V/m (3m)
Audio Response:	
(from 6 dB/oct.Premphasis, 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

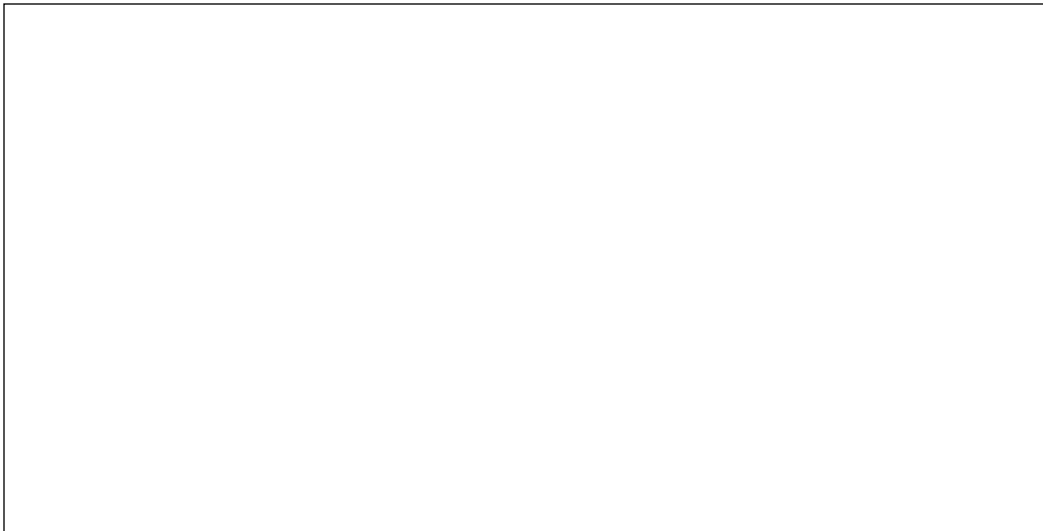


All specifications subject to change without notice.

Motorola—A Name You Know and Trust

For more than 75 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 and accessories are backed 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:



MOTOROLA

motorola.com/radiosolutions

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. All other product or service names are the property of their registered owners. © Motorola, Inc. 2005

LE-DTR-BRO