# MTX 8000

## TRUNKED PORTABLE RADIOS

### LISTEN

The **MTX 8000** series portable . . . helping you take advantage of the **Privacy Plus** potential.

**Maximum Flexibility . . . Maximum Capability**

Three **MTX 8000** models range from basic talk-and-listen to maximum feature capability. They provide all the benefits of our trunked systems **plus** talkaround capability. That means uninterrupted communications, even in fringe areas.

**Small Package . . . Powerful Punch**

Three watts of power in a small Motorola trunked radio . . . and our noise reduction microphone lets your audio come through clearly and without distortion, even in noisy environments. The **MTX 8000** radio is packed with work-saving features including:

- **Paging in Your Radio** — When you're having difficulty reaching someone, try **Call Alert**. Four beeps every five seconds will indicate your call . . . and the radio won't stop beeping until the PTT is pushed. On advanced models, a flashing display gives an additional alert. And your sending unit receives an acknowledgement that your page got through.

- **Keeping You in Touch** — Available on all models, **talkgroup scan** lets you monitor any combination of trunked systems, subfleets, or conventional channels in the same scan list. The 14-character alphanumeric display on advanced models lets you assign real names to systems and subfleets as well as list members.

- **Privacy to Discuss Sensitive Issues** — With **Private Conversation**, you can have a one-to-one conversation within your radio fleet . . . and no one else in your fleet will hear you.

- **Telephone Communications** — When you need to talk to a customer, supplier, or someone else outside your radio network, you can even make phone calls via the radio's **telephone interconnect** capability.

To customize Call Alert, Private Conversation, and telephone interconnect features, you can choose an **MTX 8000** receive-only model, or a model that can receive and send via a list or the keypad.

As all Motorola's products, the **MTX 8000** radio is subjected during the design stages to our unique Accelerated Life Test (ALT), simulating five years of intensive field stress in a few weeks. The result: you can count on rugged, reliable radio performance, even under harsh conditions.

Never before has communication been so crucial . . . and so clear and simple.

Listen . . . to an evolution in sound.

## MOTOROLA

# MTX 8000

## PORTABLE RADIO FOR PRIVACY PLUS OPERATION

### Performance Specifications/General (Per EIA316B unless otherwise specified)

| | |
|---|---|
| Model: | H01UCC6DB3__N, H01UCF6DB5__N, H01UCH6DB7__N |
| FCC Designation: | AZ489FT5749 |
| Power Supply: | One rechargeable NiCd battery |
| Battery Voltage | Nominal: 7.5 volts | Range: 6 to 9 volts |
| Temperature Range | Operating: -30° to +60°C | Storage: -40° to +85°C |

| Dimensions | B3 | B5, B7 |
|---|---|---|
| Radio Only: | 6.30" H[1] x 2.34" W[2] x 0.64" D[3] | 6.30" H[1] x 2.34" W[2] x 0.74" D[3] |
| With High Capacity Battery: | 6.30"H[1] x 2.34" W[2] x 1.31" D[3] | 6.30"H[1] x 2.34" W[2] x 1.41" D[3] |
| With Ultra High Capacity Battery: | 6.30"H[1] x 2.34" W[2] x 1.44" D[3] | 6.30"H[1] x 2.34" W[2] x 1.54" D[3] |

| Weight [4] | B3 | B5, B7 |
|---|---|---|
| Radio Only: | 10.2 oz. | 10.9 oz. |
| With High Capacity Battery: | 18.3 oz. | 19.0 oz. |
| With Ultra High Capacity Battery: | 19.4 oz. | 20.1 oz. |

[1] Measured from base of radio to base of knobs. Add 0.97" for height over frequency knob.
[2] Measured across radio below PTT area. Radio is 2.465" across PTT bumps.
[3] All depths measured below speaker area. All radios are 1.49" D at top.
[4] Weight does not include antenna. Add approximately 0.6 oz. for antenna.

### Receiver

| | | Test Method |
|---|---|---|
| Frequency Range | 851-870 MHz | |
| Bandwidth | 19 MHz | |
| Channel Spacing | 25 kHz | |
| Quieting Sensitivity (20 dBQ) Max | 0.41 $\mu$V | RS316, 3.7 |
| Usable Sensitivity (12 dB SINAD) Max | 0.28 $\mu$V | EIA204D, 7 |
| Intermodulation | -72 dB | |
| Selectivity (Adjacent Channel) | -72 dB | EIA204D, 12 (MOD) |
| Usable BW (Phase Lock Mode) | 5 kHz | EIA204D |
| Frequency Stability | 2 ppm | |
| Rated Audio | 500 mW | |
| Distortion at Rated Audio Max | 3% | EIA204D, 10 |
| Radiated Emission | -54 dBm | FCC |
| Spurious Response Rejection | -78 dB | EIA204D, 13 |

### Transmitter

| | | Test Method |
|---|---|---|
| RF Power Min. | 3 W | |
| Frequency Range | 806-821 MHz 851-866 MHz | |
| Frequency Stability | 2 ppm | |
| Conducted Emission | -53 dBW | EIA152C, 4 |
| Radiated Emission | -48 dBW | FCC |
| FM Hum and Noise | -40 dB | EIA152C, 4 (Comp. RX) |
| Audio Distortion | 3% | EIA152C, 6 |
| Modulation Limiting | 5 kHz | FCC |

### Batteries for MTX 8000 Radio

| | |
|---|---|
| Battery Life (5/5/90 duty cycle) | @ 3W |
| Hours of Operation, High Capacity Battery | 8.0 |
| Hours of Operation, Ultra High Capacity Battery | 9.0 |

### Radio Service Software

| | | | |
|---|---|---|---|
| Model: | RVN-4097 | Disk Type: | 5¼" and 3½" |

**MTX radios meet or exceed most requirements for MIL STD 810 C, D, and E.**

### Features

| B3 Model | B5 Model | B7 Model |
|---|---|---|
| 4 systems | 15 systems | 15 systems |
| 4 subfleets | 10 subfleets | 10 subfleets |
| Conventional Capability | 10 conventional | 10 conventional |
| Talkgroup Scan | 14-character | 14-character |
| Private Conversation Response | Alphanumeric display | Alphanumeric display |
| Call Alert Decode | Talkgroup Scan | Talkgroup Scan |
| Receive Telephone Interconnect | Private Conversation List capability | Unlimited Private Conversation |
| | Call Alert List capability | Unlimited Call Alert |
| | Telephone Interconnect List capability | Unlimited Telephone Interconnect |

## MOTOROLA

NATIONAL
(M) MOTOROLA Communications
SERVICE

Winner 1988 Malcolm Baldrige National Quality Award

**Support Services**
Wherever Motorola sells, our product is backed by service. In the US, we have 900 authorized or company owned centers. In addition, our products are serviced throughout the world by a wide network of company or authorized independent distributor service organizations.