

BK Radio DMH Digital Mobile

DMH

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The best value in high-specification
P25 digital mobile radios



Making reliable communications affordable

RELM BK
RADIO



The best value in high-specification P25 digital mobile radios

- 400 channels, 25 user groups, 16 channels per group
- Programmable for *digital, analog, or mixed-mode* operation, with automatic mode detection and talkback
- 136-174 MHz frequency range
- User-selectable network access codes and/or code guards
- Optional DES/AES digital encryption
- Rock-solid reliability – meets tough MIL-STD
- Multi-level password-protected field- and computer-programming options
- 15-50 watts programmable power in either standard dash-mount or remote-mount configurations
- Meets or exceeds APCO P25 specifications, including interoperability
- Easy to use, easy to program and customize
- Exceptional audio quality and clarity
- Cloning technology transfers information from BK Radio portables to the DMH mobile automatically
- FLASH technology enables future enhancements via software instead of hardware changes
- Instant access via unit-to-unit Quick Call and Automatic Call Back
- 32 Code Voice Scrambler - Our 32 Code Voice Scrambler is compatible with UT-109R and XPTO-KD.
- CTCSS/DCS Tone Signaling - Tone Signaling enables you to reduce the annoyance of listening to other users on a shared two-way radio communications channel. Where more than one user group is on the same channel, CTCSS and the DCS squelch filters out other users if they are using a different CTCSS/DCS tone or no tone at all.



On the leading edge of radio design, the BK Radio D series mobile is one of the first and few to incorporate technology that meets or exceeds the specifications and requirements of the public safety radio standard known as APCO Project 25 (P25). This includes interoperability with radios of any manufacturer whose radios are also in full compliance with strict P25 specifications.

Its next-generation design means that functions and features are software-driven, which enables built-in versatility, flexibility, intelligence, and the potential for future enhancements along with inherent efficiencies that result in significant cost savings without compromising or sacrificing quality, performance, reliability, or durability even under the most demanding public safety conditions.

Windows-based programming is focused on the practical needs and requirements of the radio user. Despite a wide variety of individual options, the BK Radio DMH digital mobiles are always easy to use – a critically important factor in emergency conditions.

Programming steps are simple and intuitive – no matter how sophisticated the end result – so that all DMH units are especially easy to customize to the user's specific situation and requirements.

All 400 channels can be programmed for digital operation, analog operation, or both. Frequencies programmed for mixed-mode operation recognize the format of a received signal and automatically transmit in the same format.

The D Series mobile radio also has the ability to clone group information from BK Radio portables; DPH, GPH, EPH, and LPH.

Additional economies are realized by using the accessories you already have for other BK Radio units such as antennas, microphones, and cloning and programming cables.



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BK Radio DMH Digital Mobile Radio Specifications

DMH

INCLUDED

- User Selectable Code Guards
- User Selectable Network Access Codes
- High Visibility VFD Display
- Dual Priority Scan
- TalkBack Scan
- Nuisance Channel Delete
- Transmit Time-Out Timer
- Soft Switch Programming
- Tone Code Guard (CTCSS)
- Digital Code Guard (CDCSS)
- Network Access Codes
- DTMF Encode
- DTMF ANI
- Talk Group IDs
- Streamlined Unit-to-Unit Calling
- Programmable Unit-to-Unit Call-Back
- Emergency Transmission Mode

SIGNAL DETECTION:

- RX - Automatic Digital/Analog
- TX - Automatic Digital/Analog
- TX - Selectable Digital/Analog
- 32 Code Voice Scrambler

OPTIONAL

- DES Digital Encryption
- AES Enhanced Digital Encryption
- Over-the-Air Encryption Re-keying



Sustaining Member

GENERAL SPECIFICATIONS

Channels	400
Operating Voltage	13.8 V
Operating Temperature	-30 to +60 °C
Current Drain	0.5A Standby 1.0A RX 14.0A TX
Stability	+/- 2.0 PPM
Channel Increments	5.0/6.25/7.5 kHz
Operating Frequency Spread	136 - 174 MHz
Channel Spacing	25/30 and 12.5/15 kHz
Size - W x D x H	6 x 9.38 x 2.12 in.
Weight	5 lbs.
Antenna	50 Ohm UHF/Mini - UHF Available
FCC Type Acceptance	K95DMH599

TRANSMITTER

RF Power Output	15 to 50 Watts
Spurious and Harmonics	80 dB
Hum and Noise	50 dB
Audio Distortion	3%
Modulation	16K0F3E, 11K0F3E 8K10F1D, 8K10F1E

RECEIVER

Sensitivity:	
12 dB SINAD / 5% BER	-118 dBm
Selectivity	75 dB (wide) / 70 dB (narrow)
Spurious including Image	80 dB
Intermodulation	75 dB
Audio Output @ 5% Distortion	5 W Internal 10 W External
Audio Load	8 Ohms External

Specifications subject to change without notice. Measurements made in accordance with applicable TIA/EIA-603-A and TIA/EIA 102CAA standards.



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