



VOICE DATA VIDEO Corp

Home of the next-generation telecommunication & computing equipment products

VHM-150x VHF UHM-400x UHF DIGITAL MOBILE

GENERAL FEATURES:

- 25 / 50 W (136-174 MHz) Models
- 25 / 45 W (450-490 MHz) Models
- Conventional Zones
- 128 Channels / 128 Zones
- Single Priority Scan
- Single / Multi-Zone Scan
- 8-Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function/Status LCD Icons
- Transmit /Busy / Call Alert LED
- 9 Programmable Function Keys
- Emergency / AUX Key
- Enhanced Kenwood Audio
- Front Panel Speaker
- Companded Audio
- Voice Inversion Scrambler Built-in
- Encryption / ANI Board Control
- Emergency Call Features
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Call Key
- Busy Channel Lockout
- Time Out Timer
- Timed Power Off
- Accessory Interface Cable Option
- Programmable I/O Ports
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- Windows Programming & Tuning
- MIL-STD-810 C/D/E/F
- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Input / Output Status Messages
- GPS ready



The DTRK radios are designed for high performance digital data and voice applications. The D-TRK? Series offers cost savings by combining voice and data into one efficient and flexible solution that allows for easy upgrades and migration as your needs evolve. TDMA 4 to 1 digital technology will relieve radio frequency congestion via digital trunked networking; and allocate channels between voice and data as needed - so you can support more users, more calls, and increase revenues on the same spectrum.

- Advance Technology: TDMA, MDMA
- Channel Efficiency:
 - o 1-4 Voice Data Channels per 25Khz,
 - o 1-2 Voice data Channels per 12.5Khz
- Multi-protocols:
 - o Digital trunk
 - o Analog conventional.
- FEC: Feed forward error correction
- RS232 port
- Digital Secured Communications
- Cost Effective Solution

GENERAL SPECIFICATIONS:

Frequency Range VHF: 136~174 MHz; UHF 450~490 MHz

Number of Channels: Zone Max.128 per Radio

Channel Max.128 per Zone
Channel Spacing: VHF: Wide 25 kHz, 30 kHz 25 kHz
UHF: Narrow 12.5 kHz, 15 kHz 12.5 kHz
Operating Voltage 13.6 V DC±15 %
Current Drain: Standby 0.4 A
Receive 1.0 A
Transmit 8.0 A- 14.0 A
Duty Cycle Transmit: 20 %
Operating Temperature Range -22 °F ~ +140 °F (-30 °C ~ +60 °C)
Frequency Stability ±0.00025 % (-22 °F ~ +140 °F)
Antenna Impedance 50 ohm
Channel Frequency Spread 38 MHz 40 MHz
Dimensions (W x H x D), 6-5/16" x 1-11/16" x 5-3/8"
Projections not included (160 mm x 43 mm x 137 mm)
Weight (net) 2.6 lbs. (1.18 kg)
FCC ID K4437663110 K4437663210 K4437673110 K4437673210
IC Certification — 282F-37663210 — 282F-37673210

Receiver:

Sensitivity (12dB SINAD)
Wide 0.28 µV
Narrow 0.35 µV
Selectivity
Wide 75 dB
Narrow 65 dB
Intermodulation Distortion:
Wide 70 dB
Narrow 60 dB
Spurious Response 75 dB
Audio Output: 4 W with less than 5 % distortion

Transmitter:

RF Output Power
VHF L: 5 W / 25 W
VHF-H 25 W / 50 W
UHF-L 5 W / 25 W
UHF-H 25 W / 45 W
Spurious Response 70 dB
Type of Emission:
Wide 16K0F3E
Narrow 11K0F3E
FM Hum Noise:
Wide 45 dB
Narrow 40 dB
Microphone Impedance 600 ohms
Audio distortion:
Wide 3 %
Narrow 5 %