

KENWOOD

Listen to the Future



TK-7360H/8360H

Compact VHF/UHF FM Mobile Radios

FleetSync[®]
by KENWOOD



GPS

Kenwood's TK-7360/8360 extra-wide bandwidth mobiles cover all available channels for your organizations requirements. The employee-friendly front consoles boast a bright backlit 10-character display providing clear presentation of messages, caller identification, GPS location and radio channel information day or night. The 10 programmable function keys allow fleet mobiles to be customized to fit the needs of the various user types and departments.

128 X 128 CAPACITY

Even the largest of organizations can be accommodated with the 128 Channel and 128 Zone capacities. Channels are logically organized by districts, regions, departments and workgroups with no learning curve for immediate easy use.

WORLD-CLASS AUDIO

Kenwood, a world renowned leader in audio and communications electronics, utilizes its expertise to provide best-of-class audio performance undeniably clearer and crisper than any other brand of two-way radio equipment.

INSTALLATION INTERFACES

All Kenwood mobiles are ready to interface into any type vehicular or fixed station installation. The DB15 interface provides features including Ignition Sense (automatic power on/off with ignition key), External Switch (for light bars, equipment, etc.) and Horn Alert (alerts extravehicular workers of incoming calls with horn or lights). The optional KCT-60M cable provides other interfaces including data I/O's for equipment such as hardened GPS installations and vehicle engine sensors.

POWER CONTROL

The transmit power is PC programmable per channel (5, 25 or 45/50 Watts) to comply with any licensing or system design requirements.

CUSTOMIZE

The 10 programmable function keys permit simple or advance customization of the front panel controls for both fixed control stations and vehicular installations. Typical functions such as channel scan, channel monitor and talk around, and specialty functions such as selective call, emergency, GPS Send, messaging are all instantly accessible and display indicated.

SHORT TEXT MESSAGING

The FleetSync[®] Status Messaging permits sending/receiving canned text messages conserving airtime and simplifying repetitive routine communications. Designated messages can trigger external devices as a gate, lock or valve for remote control applications.

ALL SYSTEM SIGNALLING

■ FleetSync[®]

Kenwood's FleetSync[®] digital suite provides built-in programmable PTT ID, Caller ID Display, Short /Long Text Messaging, canned Status Messaging, Emergency, Radio Check, Stun/Revive, Selective Calling, Remote Control and GPS AVL capabilities for efficient managed dispatch operations and remote control applications. FleetSync[®] is available across the Kenwood product line so your organization can utilize it on all tier radios. FleetSync[®] compatible dispatch and AVL products are available from a multitude of manufacturers.

■ MDC-1200

In addition to FleetSync[®], the TK-7360/8360 is compatible with communications systems utilizing the MDC-1200 format and include PTT ID, Caller ID Display, Radio Stun/Revive, Radio Check and Emergency.

■ Emergency

For hazardous and hostile-duty environments an emergency alert can be sent to the dispatcher or other group members in FleetSync[®], MDC-1200 or DTMF formats.

■ QT/DQT, DTMF & TWO-TONE

The QT/DQT sub-audible toned/coded squelch eliminates annoying and confusing voice chatter from other talk groups. DTMF encode/decode provides PTT identification, telephone calling, selective call alerting and remote control. Two-tone encode/decode is also provided for legacy fire alerting and remote door applications.

COLOR SAFETY

Transmit, receive and selective call alerts are indicated with a standard tri-color LED (red, green, amber). The blue LED can be programmed to get the users attention of an incoming priority voice call or important selective call alert. While driving, peripheral vision safely catches the call even if the volume is turned down.



GPS AVL

GPS options transmit accurate vehicle location, heading and speed information to your dispatch centers for fleet tracking, best routing and employee safety.

VOICE STORAGE & GUIDE

The VGS-1 option provides zone/channel number announcement for "no look" zone/channel changes. Drivers can playback missed voice calls upon returning to the vehicle eliminating lost time and revenue. GPS data can be stored for management post review in the event communications was impaired or a mapping system was not generally used.

MORE FEATURES

- Multiple Scan Functions
- Priority Scan
- Scan Del/Add
- BCL (Busy Channel Lockout)
- Talk Around
- Time-out Timer
- Companded Audio (per CH / narrow & wide)
- Voice Inversion Scrambler (per CH)^{*1}
- Minimum Volume
- Operator Selectable Tone
- Horn Alert Function
- Password Protection
- Embedded Message
- 8 Programmable Accessory Ports
- Kenwood ESN (Electronic Serial Number)
- Microphone Gain Adjust (High/Normal/Low)
- Microsoft Windows[®] PC Programming & Tuning

*1 This function may not be permitted in certain countries. Please contact your Kenwood dealer for further information.



Options

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>■ KMC-30 Microphone</p>  | <p>■ KMC-9C Desktop Microphone</p>  | <p>■ KMB-10 Key Lock Adapter</p>  | <p>■ KCT-36 3m Extension Cable (for KCT-60)</p>  |
| <p>■ KMC-32 16-Key Keypad Microphone</p>  | <p>■ KES-3 External Speaker</p>  | <p>■ KLF-2 Line Filter</p>  | <p>■ KCT-60 DB 15-to-15 Pin Molex Adaptor Cable</p>  |
| <p>■ KMC-35 Microphone (Supplied)</p>  | <p>■ KES-5 External Speaker (requires KCT-60 option)</p>  | <p>■ KCT-18 Ignition Sense Cable (requires KCT-60 option)</p>  | <p>■ VGS-1 Voice Storage Unit (uses 26p connector)</p>  |
| <p>■ KMC-36 Microphone with Keypad</p>  | | | |

All accessories and options may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Specifications

| Model | TK-7360H | TK8360H |
|-----------------------------------------------------|-------------------------------------------------|-------------|
| GENERAL | | |
| Frequency Range | | |
| Type 1 | 136-174 MHz | 450-520 MHz |
| Type 2 | - | 400-470 MHz |
| Number of Channels | | |
| Zone | Max.128 per Radio | |
| Channel | Max.128 per Zone | |
| Channel Spacing | 25 kHz/12.5 kHz | |
| Operating Voltage | 13.6 V DC±15 % | |
| Current Drain | | |
| Standby | 0.4 A | |
| Receive | 1.0 A | |
| Transmit | 14.0 A | |
| Operating Temperature Range | -22 °F ~ +140 °F (-30 °C ~ +60 °C) | |
| Frequency Stability | ±2.5 ppm (-22 °F ~ +140 °F) | |
| Antenna Impedance | 50 Ω | |
| Channel Frequency Spread | 38 MHz | 70 MHz |
| Dimensions (W x H x D), Projections not included | 6.3" x 1.7" x 5.4" (160 mm x 43 mm x 137 mm) | |
| Weight (net) | 2.6 lbs. (1.18 kg) | |
| FCC ID | | |
| Type 1 | K44415401 | K44415402 |
| Type 2 | - | K44415503 |
| IC Certification | | |
| Type 1 | 282F-415401 | - |
| Type 2 | - | 282F-415503 |

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Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.
All other trademarks are property of their respective owners.

| Model | TK-7360H | TK8360H |
|--------------------------------------------------------|-----------------------------------|--------------------------------|
| RECEIVER (Measurements made per EIA/TIA-603) | | |
| Sensitivity (12dB SINAD) | | |
| Wide | | 0.28 μV |
| Narrow | | 0.35 μV |
| Selectivity | | |
| Wide | | 75 dB |
| Narrow | | 65 dB |
| Intermodulation Distortion | | |
| Wide | | 70 dB |
| Narrow | | 70 dB |
| Spurious Response | | 75 dB |
| Audio Output (4 Ω Impedance) | 4 W with less than 5 % distortion | |
| TRANSMITTER (Measurements made per EIA/TIA-603) | | |
| RF Output Power | 5 W / 25 W / 50 W | 5 W / 25 W / 45 W ¹ |
| Spurious Response | | 70 dB |
| Type of Emission | | |
| Wide | | 16K0F3E |
| Narrow | | 11K0F3E |
| FM Hum & Noise | | |
| Wide | | 45 dB |
| Narrow | | 40 dB |
| Microphone Impedance | | 600 Ω |
| Audio Distortion | | |
| Wide | | 3 % |
| Narrow | | 5 % |

*1: 490 ~ 512 MHz: 5/25/40 W, 512 ~ 520 MHz: 5/25/35 W

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

Applicable MIL-STD & IP

| Standard | MIL 810C Methods/Procedures | MIL 810D Methods/Procedures | MIL 810E Methods/Procedures | MIL 810F Methods/Procedures | MIL 810G Methods/Procedures |
|------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Low Pressure | 500.1/Procedure I | 500.2/Procedure I, II | 500.3/Procedure I, II | 500.4/Procedure I, II | 500.5/Procedure I, II |
| High Temperature | 501.1/Procedure I, II | 501.2/Procedure I, II | 501.3/Procedure I, II | 501.4/Procedure I, II | 501.5/Procedure I, II |
| Low Temperature | 502.1/Procedure I | 502.2/Procedure I, II | 502.3/Procedure I, II | 502.4/Procedure I, II | 502.5/Procedure I, II |
| Temperature Shock | 503.1/Procedure I | 503.2/Procedure I | 503.3/Procedure I | 503.4/Procedure I, II | 503.5/Procedure I |
| Solar Radiation | 505.1/Procedure I | 505.2/Procedure I | 505.3/Procedure I | 505.4/Procedure I | 505.5/Procedure I |
| Rain^{*2} | 506.1/Procedure I, II | 506.2/Procedure I, II | 506.3/Procedure I, II | 506.4/Procedure I, III | 506.5/Procedure I, III |
| Humidity | 507.1/Procedure I, II | 507.2/Procedure II, III | 507.3/Procedure II, III | 507.4 | 507.5/Procedure II |
| Salt Fog^{*2} | 509.1/Procedure I | 509.2/Procedure I | 509.3/Procedure I | 509.4 | 509.5 |
| Dust^{*2} | 510.1/Procedure I | 510.2/Procedure I | 510.3/Procedure I | 510.4/Procedure I, III | 510.5/Procedure I |
| Vibration | 514.2/Procedure VIII, X | 514.3/Procedure I | 514.4/Procedure I | 514.5/Procedure I | 514.6/Procedure I |
| Shock | 516.2/Procedure I, II, III, V | 516.3/Procedure I, IV, V | 516.4/Procedure I, IV, V | 516.5/Procedure I, IV, V | 516.6/Procedure I, IV, V |
| International Protection Standard | | | | | |
| Dust & Water Protection | IP54: Radio itself | | | | |

*1: Necessary conditions are: (1) KMC-35/36 microphone is connected; (2) cap is installed on speaker connector; (3) cover is installed on D-sub 15-pin connector; and (4) neither KCT cable nor SP cable is connected.

KENWOOD

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