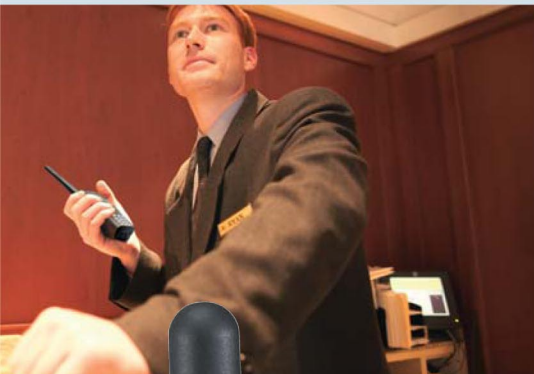


TK-2170/3170

VHF/UHF FM Portable Radios



Kenwood's TK-2170/3170 VHF/UHF portable radios provide easy operation plus versatility and reliability in a compact yet rugged package. In addition to conventional channels, the TK-3170 is compatible with LTR trunking zones to facilitate mixed operation or migration between zones.

COMPACT DESIGN

Compact enough to carry anywhere with ease, this smart new radio has a distinctively ergonomic form that's handy to hold and operate.

ENHANCED KENWOOD AUDIO

The TK-2170/3170 provides loud, clear audio even in noisy environments.

128 CHANNELS/128 ZONES

The convenient 128 channel/128 zone capability accommodates virtually any current or future capacity requirement for single or multiple site radio systems.

LTR TRUNKING ZONES (UHF ONLY)

The TK-3170 operates on LTR trunking systems with UHF frequency range. It offers a maximum of 128 zones per radio and 250 groups IDs per zone.

8-CHARACTER LCD DISPLAY

The backlit LCD with 8-character, 13 segment aliases and icons provides an easy-to-read channel, function and FleetSync® messaging display day or night.

BATTERY STATUS INDICATOR

For extra convenience, a 4-step battery status indicator notifies the user immediately of the amount of charge remaining by visual indication (icons) or tone alert.

ROBUST & RELIABLE

The TK-2170/3170 is built to survive the hard knocks, drops and all weather environments of its users. It meets or exceeds the stringent IP54/55 dust and water intrusion standards and the MIL-STD 810 C, D, E & F environmental standards including the demanding "driven rain" test.

* MIL-STD/IPXX compatibility requires use of the terminal cover supplied with the SP-Mic.

FleetSync®: PTT ID, SELCALL & EMERGENCY

Kenwood's FleetSync® digital signalling system includes PTT ID digital ANI for instant radio call identification and Emergency status for personnel safety. FleetSync® also includes status messaging, selective calling and short/long text dispatch messaging features. Emergency Calling notifies a dispatcher of personnel in distress by activation of an orange colored emergency key.

QT/DQT, DTMF & 2-TONE SIGNALLING

In addition to FleetSync®, the TK-2170/3170 includes industry standard signalling formats: QT/DQT, 2-Tone (encode/decode) can be utilized for talk groups, system access and selective calling. DTMF permits DTMF PTT ID, telephone interconnect operation, individual/group selective calling and remote radio disable/enable (remote stun).

SCAN

Multi-channel call monitoring can be customized for users with single/multi-zone scan and delete/add scan features. Priority Scan automatically checks a primary channel for activity while receiving a call on a non-priority channel. Convenience features such as Priority-channel Stop Tone, Temporary Delete, and Revert Channel Display facilitate user-friendly operation and eliminate confusion.

WIDE BATTERY SELECTION

The TK-2170/3170 is available with a choice of two Lithium-Ion batteries KNB-55L/KNB-57L plus a NiMH battery KNB-56N for maximum flexibility

VOICE INVERSION SCRAMBLER

The built-in voice inversion scrambler provides basic protection against casual eavesdropping.

EASY OPTION PORT (20-PIN)

Kenwood's plug-in option port makes the compatible after-market board installation quick and simple.

VOX READY

The TK-2170/3170 offers convenient hands-free operation with a compatible headset. The TK-2170/3170 internal VOX (voice-operated transmission) circuitry provides automatic PTT and a 10-level sensitivity adjustment for different ambient noise levels.

OTHER FEATURES

- PROGRAMMABLE FUNCTION KEYS
- EMERGENCY & MAN-DOWN FEATURES
- OPERATOR-SELECTABLE TONE (CONVENTIONAL)
- ENCRYPTION & ANI MODULE CONTROL
- EMBEDDED MESSAGE WITH PASSWORD
- RADIO LOCK PASSWORD
- POWER-ON LCD MESSAGE
- FLASH MEMORY
- MICROSOFT WINDOWS® PC PROGRAMMING & TUNING



Options

| | | | |
|---|--|---|---|
| <ul style="list-style-type: none"> ■ KSC-256 5-way Tri-chemistry Charger for KNB-35L/55L/56N/57L ■ KNB-55L Li-ion Battery (1480 mAh) ■ KNB-56N NiMH Rechargeable Battery Pack (1400 mAh) ■ KNB-57L Li-ion Battery (2000 mAh) ■ KSC-25 Rapid Charger Tri-Chemistry for KNB-35L/55L/56N/57L | <ul style="list-style-type: none"> ■ KSC-30 Charger for KNB-56N ■ KBP-5 Alkaline Battery Case ■ KRA-22 VHF Low Profile Helical Antenna ■ KRA-23 UHF Low Profile Helical Antenna ■ KRA-26 VHF Helical Antenna | <ul style="list-style-type: none"> ■ KRA-27 UHF Whip Antenna ■ KMC-45 Speaker Microphone ■ KMC-21 Compact Speaker Microphone ■ KHS-1 Headset with VOX/PTT | <ul style="list-style-type: none"> ■ KHS-21 Headset ■ EMC-7 Clip Microphone with Earphone ■ KHS-29F Headset with PTT ■ KBH-12 Belt Clip |
|---|--|---|---|

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

| | TK-2170 | TK-3170 | | TK-2170 | TK-3170 |
|--|---------------------------------------|--------------------|--|-------------------------------------|---------|
| GENERAL | | | RECEIVER (Measurements made per TIA/EIA-603) | | |
| Frequency Range | | | Sensitivity (12dB SINAD) | | |
| Type 1 | 136-174 MHz | 440-480 MHz | Wide | 0.25 µV | |
| Type 3 | — | 400-430 MHz | Narrow | 0.28 µV | |
| Number of Channels | | | Selectivity | | |
| Zone | Max. 128 per Radio | Max. 128 per Radio | Wide | 70 dB | |
| Conv. Ch | Max. 128 per Zone | Max. 128 per Zone | Narrow | 65 dB | |
| Trunking GID | — | Max. 250 per Zone | Intermodulation Distortion | | |
| Channel Spacing | | | Wide | 65 dB | |
| Wide/Narrow | 25, 30 kHz/12.5, 15 kHz | 25 kHz/12.5 kHz | Narrow | 60 dB | |
| Battery Voltage | 7.5V DC ±20% | | Spurious Response | 65 dB | |
| Battery Life (5-5-90 duty cycle, during hi-power, battery saver off) | | | Audio Output (4 Ω impedance) | 500 mW with less than 5% distortion | |
| with KNB-25A (1200mAh) | Approx. 8 hours | | TRANSMITTER (Measurements made per TIA/EIA-603) | | |
| with KNB-26N (2000mAh) | Approx. 12 hours | | RF Output Power | | |
| with KNB-35L (1950mAh) | Approx. 11 hours | | High | 5 W | 4 W |
| Operating Temperature Range* | -30°C ~ +60°C | | Low | 1 W | 1 W |
| Frequency Stability | ±2.5ppm (-30°C ~ +60°C) | | Spurious Response | 70 dB | |
| Antenna Impedance | 50 Ω | | Type of Emission | | |
| Channel Frequency Spread | | | Wide | 16K0F3E | |
| Type 1 | 38 MHz | 40 MHz | Narrow | 11K0F3E | |
| Type 3 | — | 30 MHz | FM HUM & Noise | | |
| Dimensions (W x H x D), Projections not included | | | Wide | 45 dB | |
| Radio Only | 56 x 109 x 16.6 mm | | Narrow | 43 dB | |
| Radio with KNB-55L | 56 x 109 x 30.8 mm | | Audio Distortion | Less than 5% | |
| Radio with KNB-56N | 56 x 109 x 35.5 mm | | Kenwood reserves the right to change specifications and features without prior notice. | | |
| Radio with KNB-57L | 56 x 109 x 31.8 mm | | FleetSync® is a registered trademark of Kenwood Corporation in the United States and/or other countries. | | |
| Weight (net) | | | All other trademarks are property of their respective owners. | | |
| Radio Only | 205 g (includes supplied accessories) | | | | |
| Radio with KNB-55L | 280 g | | | | |
| Radio with KNB-56N | 380 g | | | | |
| Radio with KNB-57L | 310 g | | | | |

Applicable MIL-STD & IP

| Standard | MIL 810C Methods/Procedures | MIL 810D Methods/Procedures | MIL 810E Methods/Procedures | MIL 810F Methods/Procedures |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Low Pressure | 500.1/Procedure I | 500.2/Procedure I, II | 500.3/Procedure I, II | 500.4/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 |
| Low Temperature | 502.1/Procedure I | 502.2/Procedure I, II | 502.3/Procedure I, II | 502.4/Procedure I, II |
| Temperature Shock | 503.1/Procedure I | 503.2/Procedure I | 503.3/Procedure I | 503.4/Procedure I, II |
| Solar Radiation | 505.1/Procedure I | 505.2/Procedure I | 505.3/Procedure I | 505.4/Procedure I |
| Rain | 506.1/Procedure I, II | 506.2/Procedure I, II | 506.3/Procedure I, II | 506.4/Procedure I, III |
| Humidity | 507.1/Procedure I, II | 507.2/Procedure II, III | 507.3/Procedure II, III | 507.4 |
| Salt Fog | 509.1/Procedure I | 509.2/Procedure I | 509.3/Procedure I | 509.4 |
| Dust | 510.1/Procedure I | 510.2/Procedure I | 510.3/Procedure I | 510.4/Procedure I, III |
| Vibration | 514.2/Procedure VIII, X | 514.3/Procedure I | 514.4/Procedure I | 514.5/Procedure I |
| Shock | 516.2/Procedure I, II, V | 516.3/Procedure I, IV | 516.4/Procedure I, IV | 516.5/Procedure I, IV |
| International Protection Standard | | | | |
| Dust & Water Protection | IP54/55 | | | |

*To meet MIL 810 and IP grade, the 2-pin connector cover has to be connected.

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