



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
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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
Operating Temperature Range*	-30°C ~ +60°C		Low	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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COMTK2170FCCWEB1
Version2_May10