

# KENWOOD

Listen to the Future

## 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 offers a lightweight Li-Ion battery (KNB-24L/35L), ideal for low-temperature environments; a durable Ni-Cd battery (KNB-25A); and a powerful Ni-MH battery (KNB-26N) for extra-long life.

### 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



FleetSync®  
by KENWOOD

## Options

■ <b>KNB-24L</b> Li-ion Battery Pack (7.4V/1400mAh)		■ <b>KSC-25</b> Rapid Charger		■ <b>KRA-23</b> UHF Low Profile Helical Antenna		■ <b>KMC-21</b> Compact Speaker Microphone	
■ <b>KNB-25A</b> Ni-Cd Battery Pack (7.2V/1200mAh)		■ <b>KSC-30</b> Charger for KNB-25A and KNB-26N		■ <b>KRA-26</b> VHF Helical Antenna		■ <b>KHS-1</b> Headset with VOX/PTT	
■ <b>KNB-26N</b> Ni-MH Battery Pack (7.2V/2000mAh)		■ <b>KBP-5</b> Alkaline Battery Case		■ <b>KRA-27</b> UHF Whip Antenna		■ <b>KHS-21</b> Headset	
■ <b>KNB-35L</b> Li-ion Battery Pack (7.4V/1950mAh)		■ <b>KRA-22</b> VHF Low Profile Helical Antenna		■ <b>KMC-17</b> Speaker Microphone		■ <b>KBH-12</b> 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
<b>GENERAL</b>			<b>RECEIVER (Measurements made per TIA/EIA-603)</b>	
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	
Battery Life (5-5-90 duty cycle, during hi-power, battery saver off)	Approx. 9 hours		Audio Output (4 Ω impedance) 500 mW with less than 5% distortion	
with KNB-24L (1400mAh)	Approx. 8 hours		<b>TRANSMITTER (Measurements made per TIA/EIA-603)</b>	
with KNB-25A (1200mAh)	Approx. 12 hours		RF Output Power	
with KNB-26N (2000mAh)	Approx. 11 hours		High	
with KNB-35L (1950mAh)	-30°C ~ +60°C		5 W	
Operating Temperature Range*	±2.5ppm (-30°C ~ +60°C)		Low	
Frequency Stability	50 Ω		1 W	
Antenna Impedance	38 MHz		Spurious Response	
Channel Frequency Spread	40 MHz		70 dB	
Type 1	30 MHz		Type of Emission	
Type 3	-		Wide	
Dimensions (W x H x D), Projections not included	56 x 109 x 16.6 mm		Narrow	
Radio Only	56 x 109 x 31.7 mm		16KØF3E	
with KNB-24L/35L	56 x 109 x 37.9 mm		11KØF3E	
with KNB-25A/26N	-		FM HUM & Noise	
Weight (net)	205 g (includes supplied accessories)		Wide	
Radio Only	350 g [with antenna (KRA-22/23) and belt clip (KBH-12)]		Narrow	
with KNB-24L	415 g [with antenna (KRA-22/23) and belt clip (KBH-12)]		45 dB	
with KNB-25A	455 g [with antenna (KRA-22/23) and belt clip (KBH-12)]		43 dB	
with KNB-26N	340 g [with antenna (KRA-22/23) and belt clip (KBH-12)]		Audio Distortion	
with KNB-35L	-		Less than 5%	
	* -10°C ~ +60°C when KNB-24L/26N/35L in use		Kenwood reserves the right to change specifications and features without prior notice. FleetSync® is a registered trademark of Kenwood Corporation in the United States and/or other countries. All other trademarks are property of their respective owners.	

## 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
<b>International Protection Standard</b>				
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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