

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

■ **KNB-24L**
Li-ion Battery Pack
(7.4V/1400mAh)



■ **KSC-25**
Rapid Charger



■ **KRA-23**
UHF Low Profile
Helical Antenna



■ **KMC-21**
Compact Speaker
Microphone



■ **KNB-25A**
Ni-Cd Battery Pack
(7.2V/1200mAh)



■ **KSC-30**
Charger for
KNB-25A and KNB-26N



■ **KRA-26**
VHF Helical Antenna



■ **KHS-1**
Headset with
VOX/PTT



■ **KNB-26N**
Ni-MH Battery Pack
(7.2V/2000mAh)



■ **KBP-5**
Alkaline Battery Case



■ **KRA-27**
UHF Whip Antenna



■ **KHS-21**
Headset



■ **KNB-35L**
Li-ion Battery Pack
(7.4V/1950mAh)



■ **KRA-22**
VHF Low Profile
Helical Antenna



■ **KMC-17**
Speaker
Microphone



■ **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
GENERAL		
Frequency Range		
Type 1	136-174 MHz	440-480 MHz
Type 3	-	400-430 MHz
Number of Channels		
Zone	Max. 128 per Radio	Max. 128 per Radio
Conv. Ch	Max. 128 per Zone	Max. 128 per Zone
Trunking GID	-	Max. 250 per Zone
Channel Spacing		
Wide/Narrow	25, 30 kHz/12.5, 15 kHz	25 kHz/12.5 kHz
Battery Voltage	7.5V DC±20%	
Battery Life (5-5-90 duty cycle, during hi-power, battery saver off)		
with KNB-24L (1400mAh)	Approx. 9 hours	
with KNB-25A (1200mAh)	Approx. 8 hours	
with KNB-26N (2000mAh)	Approx. 12 hours	
with KNB-35L (1950mAh)	Approx. 11 hours	
Operating Temperature Range*	-30°C ~ +60°C	
Frequency Stability	±2.5ppm (-30°C ~ +60°C)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38 MHz	40 MHz
Type 3	-	30 MHz
Dimensions (W x H x D), Projections not Included		
Radio Only	56 x 109 x 16.6 mm	
with KNB-24L/35L	56 x 109 x 31.7 mm	
with KNB-25A/26N	56 x 109 x 37.9 mm	
Weight (net)		
Radio Only	205 g (includes supplied accessories)	
with KNB-24L	350 g [with antenna (KRA-22/23) and belt clip (KBH-12)]	
with KNB-25A	415 g [with antenna (KRA-22/23) and belt clip (KBH-12)]	
with KNB-26N	455 g [with antenna (KRA-22/23) and belt clip (KBH-12)]	
with KNB-35L	340 g [with antenna (KRA-22/23) and belt clip (KBH-12)]	

*-10°C ~ +60°C when KNB-24L/26N/35L in use

	TK-2170	TK-3170
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide		0.25 μV
Narrow		0.28 μV
Selectivity		
Wide		70 dB
Narrow		65 dB
Intermodulation Distortion		
Wide		65 dB
Narrow		60 dB
Spurious Response		
Audio Output (4 Ω impedance)	500 mW with less than 5% distortion	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Output Power		
High	5 W	4 W
Low	1 W	1 W
Spurious Response		
Type of Emission		
Wide		16K0F3E
Narrow		11K0F3E
FM HUM & Noise		
Wide		45 dB
Narrow		43 dB
Audio Distortion		Less than 5%

Kenwood reserves the right to change specifications and features without prior notice.
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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.

Kenwood Corporation

2967-3, Ishikawa-machi, Hachioji, Tokyo 192-8525, Japan



ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification