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.

FleetSync®
by KENWOOD

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-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

Options

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

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

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

- **KSC-25**
  Rapid Charger

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

- **KBP-5**
  Alkaline Battery Case

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

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

- **KRA-26**
  VHF Helical Antenna

- **KRA-27**
  UHF Whip Antenna

- **KMC-17**
  Speaker
  Microphone

- **KMC-21**
  Compact Speaker
  Microphone

- **KHS-1**
  Headset with
  VOX/PTT

- **KHS-21**
  Headset

- **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-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-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-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-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	65 dB	
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	70 dB	
Type of Emission		
Wide	16KØF3E	
Narrow	11KØF3E	
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 meeet MIL 810 and IP grade, the 2-pin connector cover has to be connected.

JQA-QMA1205   091-A
ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

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