

KENWOOD

Listen to the Future

TK-2140/3140

VHF/UHF FM Portable Radios

Ultra-compact and designed to fit neatly in the hand, the TK-2140/3140 portables are designed with the user in mind. Weighing only 300g including the battery, these radios are packed with features and offer excellent reliability thanks to the tough die-cast chassis and weather-resistant construction. Small in size yet big on performance, the TK-2140/3140 are the stylish communicators from Kenwood.

ALPHANUMERIC DISPLAY

The 12-digit, 3-digit alphanumeric dot matrix (5 x 8) LCD display provides clear legibility under all lighting conditions. The main 12 alphanumeric characters are for displaying such information as system/group name/channel name aliases. The 3-character sub-line can be programmed for channel or group number.

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

FLASH MEMORY

Flash memory permits updates, advanced feature sets and system architectural changes to be made electronically, without ever opening the unit.

NEW BATTERY RELEASE LATCH DESIGN

New battery release structure has been adopted by placing movable parts on the battery for improved reliability.



EMERGENCY CALL FUNCTION

The call function can be used for emergency signaling to send a help signal to a pre-determined person or group of people.

HIGH-QUALITY AUDIO OUTPUT

TK-2140/3140 radios are equipped with an extra-large 36mm diameter speaker to deliver a 500mW of audio power for clear communication.

LARGE CHANNEL CAPACITY (MAX. 250)

Synthesized channel frequency generation provides a maximum of 250 channels.

BUILT-IN MODEM

Built-in modem on the TK-2140/3140 enables simple data transmission including Status Message and Short Data Message, as well as other DMS (Digital Message System) functions.

COMPACT BODY & ROUNDED FORM

The ergonomic design of the TK-2140/3140 fits neatly in your hand, yet weighs only 300g even with the Li-Ion battery.

PROGRAMMABLE FUNCTION

KEYS (PF keys)

Each key (except PTT) is programmable for any radio feature allowing the unit to be customized to fit user needs.

LOW BATTERY ALERT

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.

MINIMUM VOLUME

The listener can hear the sender's voice even at the lowest volume setting to avoid missed calls.

PC PROGRAMMING AND TUNING

5-TONE QT AND DQT SIGNALING

OTHER FEATURES

- Built-in digital ANI
- Companded audio
- Multiple scanning
- MIL-STD 810 C/D/E
- IP 54/55 standard
- Embedded message
- MIL-SPEC speaker mic with programmable controls
- Password-protected programming and cloning
- Remote stun, revive and kill

Actual size

Options

 KNB-35L Li-ion Battery (7.4V/1950mAh)	 KSC-256 6-way Tri-chemistry Charger for KNB-35L/55L/56N/57L	 KSC-25 Rapid Charger for KNB-35L/55L/56N/57L	 KBP-5 AA Refillable Battery Pack (holds 6 AA-size alkaline cells)	 KPG-36A Programming Interface
 KNB-55L Li-ion Battery (1480 mAh)	 KNB-56N NiMH Rechargeable Battery Pack (1400 mAh)	 KNB-57L Li-ion Battery (2000 mAh)	 KLH-115 Soft Leather Case	 KMC-41 Speaker Microphone
 KRA-22 VHF Helical Short Antenna	 KRA-14 VHF Helical Antenna	 KRA-23 UHF Helical Short Antenna	 KRA-15 UHF Whip Antenna	

Not all accessories may be available. Please contact your dealer for details.

Specifications

Model	TK-2140	TK-3140
GENERAL		
Frequency range Type 1 Type 3	136 ~ 174MHz —	440 ~ 470MHz 400 ~ 430MHz
Number of channels	Max.250	
Channel Spacing Type 1 Type 3	25kHz/20kHz/12.5kHz —	25kHz/20kHz/12.5kHz 25kHz/12.5kHz
PLL channel stepping	5kHz/6.25kHz	
Antenna impedance	50Ω	
Operating voltage	7.5V DC±20%	
Battery life With KNB-55L With KNB-56N With KNB-57L	(5-5-90 duty cycle with battery saver off) Approx. 8h Approx. 8h Approx. 12h	
Operating temperature range	-30°C ~ + 60°C when KNB-56N in use -10°C ~ + 60°C when KNB-55L/57L in use	
Frequency stability	±2.5ppm	
Frequency spread Type1 Type3	38MHz —	30MHz 30MHz
Dimensions (W x H x D)	56 x 105 x 23.5 mm with KNB-55L Battery 56 x 105 x 33.2 mm with KNB-56N Battery 56 x 105 x 29.5 mm with KNB-57L Battery	
Weight (net)	265 g with KNB-55L 365 g with KNB-56N 295 g with KNB-57L	
Applicable standards	EN300 086, EN300 113, EN300 219 IP54, IP55	

Model	TK-2140	TK-3140
RECEIVER		
Sensitivity EIA 12dB SINAD EN 20dB SINAD	0.28μV 0.70μV	
Adjacent channel selectivity (25kHz/20kHz/12.5kHz)	75dB/75dB/65dB	
Intermodulation	68dB	
Spurious response rejection	70dB	
Audio output	500mW	
TRANSMITTER		
RF power output (Hi/Low)	5W/1W	4W/1W
Modulation Limiting	±5.0kHz at 25kHz ±4.0kHz at 20kHz ±2.5kHz at 12.5kHz	
Spurious emission	-36dBm≤1GHz -30dBm>1GHz	
FM noise (EIA) (25kHz/20kHz/12.5kHz)	45dB/45dB/40dB	
Microphone impedance	600Ω	
Modulation distortion	Less than 3%	

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

Applicable MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I	500.3/Procedure I
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II
Humidity	507.1/Procedure II	507.2/Procedure II	507.3/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV

KENWOOD CORPORATION

2967-3, Ishikawacho, Hachioji-shi, Tokyo 192-8525, Japan

KENWOOD ELECTRONICS UK LIMITED

Kenwood House, Dwight Road, Watford, Herts, WD18 9EB, United Kingdom

www.kenwood-electronics.co.uk

CE0168



COMTK2140EWEB1
 Version2_May10