

# KENWOOD

Listen to the Future



## TK-2140/3140

VHF/UHF FM Portable Radios

**FleetSync**<sup>®</sup>  
by KENWOOD



### GENERAL FEATURES

- 5 W (136-174 MHz)
- 4 W (450-490, 470-512, 400-430 MHz)
- 32 Conventional & LTR<sup>®</sup> Systems<sup>1</sup>
- 10 Character Alphanumeric Aliases
- Lighted Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key
- 500 mW Speaker Audio
- Companded Audio
- Emergency Call Features
- DTMF Encode / Decode<sup>2</sup>
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Option
- Windows<sup>®</sup> Programming & Tuning<sup>3</sup>
- Windows<sup>®</sup> Firmware Uploading<sup>3</sup>
- Front Panel Test / Tune
- Cloning

- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- Intrinsically Safe Option

### CONVENTIONAL SYSTEMS

- 250 Channels
- QT / DQT
- Two-Tone Decode<sup>4</sup>
- Operator Selectable Tone<sup>4</sup>
- Single Priority Scan
- Single & Multi-Group Scan

### TRUNKED SYSTEMS

- 250 GID
- Kenwood LTR<sup>®</sup> Features<sup>5</sup>

### FleetSync<sup>®</sup>

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages<sup>6</sup>

# Options

- **KNB-25A**  
Ni-Cd Battery Pack  
(1,200mAh)
- **KNB-26N**  
Ni-MH Battery Pack  
(2,000mAh)
- **KNB-35L**  
Li-ion Battery Pack  
(7.4V/1950mAh)
- **KNB-40LC**  
Li-ion Battery Pack  
(7.4V/1950mAh) I.S.
- **KBP-5**  
Battery Case
- **KSC-25**  
Rapid Charger
- **KSC-30**  
Charger for KNB-25A  
and KNB-26N



- **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-25**  
Speaker Microphone



- **KVC-3**  
Rapid Rate Vehicular  
Charger Adapter  
(for KSC-30)
- **KVC-4**  
Rapid Rate Vehicular  
Charger Adapter  
(for KSC-25)
- **KEP-1**  
Heavy Duty Earphone  
(Requires KMC-25)
- **KHS-11BL**  
2-wire Palm Mic with  
Earphone



- **KHS-12BL**  
3-wire Lapel Mic  
with Earphone (Black)
- **KHS-14**  
Lightweight  
Single Muff Headset
- **KLH-116**  
Hard Leather Case  
w/Swivel
- **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

Model	TK-2140	TK-3140
<b>GENERAL</b>		
Frequency Range		
Type 1	136 ~ 174 MHz	450 ~ 490 MHz
Type 2		470 ~ 512 MHz
Type 3		400 ~ 430 MHz
Systems (Trunked mode)		Max. 32
Group (Trunked mode)		Max. 250
Channels		
Trunked/Conventional format		Max. 600/Max. 250
Channel Spacing		
Wide/Narrow	25, 30 kHz/12.5, 15 kHz	25 kHz/12.5 kHz
Channel Step	2.5, 5, 6.25, 7.5 kHz	5, 6.25 kHz
Operating Voltage	7.5 V 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*	-22° F ~ +140° F (-30° C ~ +60° C)	
Frequency Stability	±0.00025% (-22° F ~ +140° F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38 MHz	40 MHz
Type 2		42 MHz
Type 3		30 MHz
Dimensions (W x H x D), Projections not included		
Radio only	2-7/32 x 4-1/8 x 7/8 in. (56 x 105 x 21.9 mm)	
with KNB-35L	2-7/32 x 4-1/8 x 1-5/32 in. (56 x 105 x 29.5 mm)	
with KNB-25A	2-7/32 x 4-1/8 x 1-3/8 in. (56 x 105 x 35.7 mm)	
with KNB-26N	2-7/32 x 4-1/8 x 1-3/8 in. (56 x 105 x 35.7 mm)	

\*+14°F ~ +140°F (-10°C ~ +60°C) when KNB-26N/35L in use

Model	TK-2140	TK-3140
<b>GENERAL Continued</b>		
Weight (net)		
Radio only	5.99 oz. (170 g) antenna and belt hook	
with KNB-35L	10.58 oz. (300 g) antenna and belt hook	
with KNB-25A	12.7 oz. (360 g) antenna and belt hook	
with KNB-26N	14.46 oz. (410 g) antenna and belt hook	
FCC ID		
Type 1	ALH32253110	ALH32263110
Type 1	ALH32263120	ALH32263120
Type 1	ALH32263130	ALH32263130
IC Certification	282196842A	282196837A
<b>RECEIVER (Measurements made per EIA/TIA-204-D)</b>		
Sensitivity (12 dB SINAD)		
Wide/Narrow	0.25µV/0.28µV	
Selectivity		
Wide/Narrow	70 dB/65 dB	70 dB/65 dB
Intermodulation Distortion		
Wide/Narrow	70 dB/65 dB	70 dB/62 dB
Spurious Response	70 dB	
Audio Output	500 mW with less than 5% distortion	
<b>TRANSMITTER (Measurements made per EIA/TIA-603)</b>		
RF Power Output		
HI/LO	5 W/1 W	4 W/1 W
Spurious Response	70 dB	
Modulation		
Wide/Narrow	16K0F3E/11K0F3E	
FM Noise		
Wide/Narrow	45 dB/40 dB	
Audio Distortion	Less than 3%	

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

FleetSync® is a registered trademark of Kenwood Corporation.  
LTR® is a registered trademark of Transcript International.  
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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
<b>International Protection Standard</b>				
Dust & Water Protection	IP54/55			

footnotes from Front:

- <sup>1</sup> Conventional Systems: 250 Channels; Trunked Systems: 600 repeater cCH.s max.; 250 GID max. per system/per radio
- <sup>2</sup> DTMF includes PTT ID, Emergency ANI, Auto-Dial (32 numbers) & Stun (a.k.a. "deadbeat disable")
- <sup>3</sup> KPG-74D required: Windows®98/ NTI 2000/ Me/XP compatible; English screen language only.
- <sup>4</sup> Two-Tone Decode (3 sets x 2 pairs each); Operator Selectable Tone (16 QT/DQT code pairs)
- <sup>5</sup> Kenwood LTR Features include: GID Delete/Add, LTR Talk Around/Scan, Revert Group Display, System Scan, Group Scan, Auto Search.
- <sup>6</sup> Short Text Messages are radio stored & LCD displayed.

# KENWOOD

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ISO9001 certification