

# KENWOOD

Listen to the Future

## TK-2160/3160

Compact 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)
- 16 Conventional Channels
- Single Priority / Normal Scan
- Transmit / Busy / Call Alert / Scan / Warn LED
- 3 PF keys
- Orange Emergency / AUX Key
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Emergency Call Features
- QT / DQT
- Two-Tone Decode<sup>1</sup>
- Single / Two-Tone Encode<sup>1</sup>
- DTMF Encode / Decode<sup>2</sup>
- Special Alert Tone Pattern<sup>3</sup>
- Time Out Timer
- Busy Channel Lockout
- Low Battery Warning
- Battery Saver
- Windows<sup>®</sup> Programming & Tuning<sup>4</sup>
- Windows<sup>®</sup> Firmware Uploading<sup>4</sup>
- MIL-STD-810 C/D/E/F
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option

### FleetSync<sup>®</sup>

- PTT ID Digital ANI
- Emergency Status
- Selective Call (single ID)



# 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-17**  
Speaker Microphone
- **KMC-21**  
Speaker Microphone
- **KEP-2**  
Earphone Cord Kit for KMC-17
- **KHS-1**  
Head Set with VOX/PTT
- **KHS-22**  
Head Set
- **KVC-3**  
Regular Rate Vehicular Charger Adapter (for KSC-30)
- **KVC-4**  
Rapid Rate Vehicular Charger Adapter (for KSC-25)
- **KHS-7A**  
Lightweight Single Muff Headset
- **KHS-8BL**  
2-wire Palm Mic with Earphone (Black)
- **KHS-9BL**  
3-wire Lapel Mic with Earphone (Black)
- **KLH-117**  
Leather Case
- **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-2160	TK-3160
<b>GENERAL</b>		
Frequency Range		
Type 1	136-174 MHz	450-490 MHz
Type 2	-	470-512 MHz
Type 3	-	400-430 MHz
Number of Channels	Max. 16	
Channel Spacing		
Wide/Narrow	25, 30kHz/12.5, 15kHz	25kHz/12.5kHz
Channel Step	2.5, 5, 6.25, 7.5kHz	5, 6.25kHz
Operating Voltage	7.5V DC±20%	
Battery Life (5-5-90 duty cycle)		
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) [-14°F ~ +140°F (-10°C ~ +60°C) when KNB-24L/26N in use]	
Frequency Stability	±2.5ppm (-22°F ~ +140°F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38MHz	40MHz
Type 2	-	42MHz
Type 3	-	30MHz
Dimensions (W x H x D), Projections not included		
Radio Only	2.2" x 4.3" x 0.72" (56 x 109.3 x 18.4mm)	
with KNB-35L	2.2" x 4.3" x 1.35" (56 x 109.3 x 34.5mm)	
with KNB-25A	2.2" x 4.3" x 1.6" (56 x 109.3 x 40.7mm)	
with KNB-26N	2.2" x 4.3" x 1.6" (56 x 109.3 x 40.7mm)	
Weight		
Radio Only	5.8oz (165g)	
with KNB-35L	10.2oz (290g) without antenna	
with KNB-25A	12.5oz (355g) without antenna	
with KNB-26N	14.1oz (400g) without antenna	

Model	TK-2160	TK-3160
<b>GENERAL</b>		
FCC ID		
Type 1	ALH36413110	ALH36423110
Type 2	-	ALH36423120
Type 3	-	ALH36423130
IC Certification		
Type 1	282D-36413110	282D-36423110
Type 3	-	282D-36423130
<b>RECEIVER</b> (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide/Narrow	0.25µV/0.28µV	
Selectivity		
Wide/Narrow	70dB/62dB	
Intermodulation Distortion		
Wide/Narrow	65dB/60dB	
Spurious Response	65dB	
Audio Output	500 mW with less than 10% distortion	
<b>TRANSMITTER</b> (Measurements made per TIA/EIA-603)		
RF Power Output		
High/Low	5W/1W	4W/1W
Spurious Response	70dB	
Modulation		
Wide/Narrow	16K0F3E/11K0F3E	
FM Noise		
Wide/Narrow	45/43dB	45/40dB
Audio Distortion	Less than 5%	

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 in the United States and/or other countries.

# Applicable MIL-STD & IP

Standards	Methods/Procedures MIL-STD 810C	Methods/Procedures MIL-STD 810D	Methods/Procedures MIL-STD 810E	Methods/Procedures MIL-STD 810F
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
<b>High Temperature</b>	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
<b>Low Temperature</b>	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
<b>Rain</b>	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
<b>Shock</b>	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>				
<b>Dust &amp; Water Protection</b>	IP54/55			

footnotes from Front:  
<sup>1</sup> Two-Tone Decode (3 sets x 2 pairs each); Single / Two-Tone Encode (1 tone).  
<sup>2</sup> DTMF includes PTT ID, Emergency ANI & Stun.  
<sup>3</sup> Special Alert Tone Pattern operates for 2-Tone & DTMF selective call decode only (1 pattern of 16 tones).  
<sup>4</sup> KPG-82D required: Windows®98/ 2000/ Me/XP compatible; English/Spanish screen languages.



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