

KENWOOD

Listen to the Future

TK-2160/3160 Intrinsically Safe

Compact VHF/UHF FM Portable Radios

FleetSync®
by KENWOOD

Intrinsically Safe USTC Approval

Rugged, Compact size : Kenwood's TK-2160/3160 Intrinsically Safe portable radios are essential for organisations serious about mobile communication in hazardous environments.



IS RATING

TK-2160/3160-IS portable radios are USTC approved by SGS USTC

- Intrinsically safe:

ANSI/UL 913/6 edition for Division 1, Class I, Groups A, B, C and D, Class II, Groups E, F and G, Class III hazardous locations only as evaluated with KNB-40LC and towards SGS USTC Listing & Labeling Program.

- Approved battery pack: Kenwood KNB-40LC

GENERAL FEATURES

- 5W (136 - 174 MHz)
- 4W (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
- 500mW Audio Power
- Enhanced Kenwood Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Emergency Call Features
- QT / DQT / DTMF / 2-TONE
- FleetSync® PTT ID Digital ANI / Emergency Status
- MIL-STD-810 C/D/E/F
- IP-54/55 Water & Dust Intrusion



Options

Intrinsically Safe Approved Accessories

■ KNB-40LC Li-ion Battery (7.4 V, 1950 mAh) 	■ KRA-26 VHF Helical Antenna 	■ KEP-2 2.5mm Earphone Kit (for KMC-17) 	■ KHS-10-BH Heavy-duty headset (behind-the-headset) 
■ KRA-22 VHF Low Profile Helical Antenna 	■ KRA-27 UHF Whip Antenna 	■ KHS-1 Headset with VOX/PTT (light-duty use) 	■ KHS-10-OH Heavy-duty headset (over-the-headset) 
■ KRA-23 UHF Low Profile Helical Antenna 	■ KMC-17 Speaker Microphone 	■ KHS-7A Lightweight Single Muff Headset 	■ KBH-12 Belt Clip (Same as Supplied) 
■ KMC-21 Speaker Microphone 			

Specifications

Model	TK-2160-IS	TK-3160-IS	Model	TK-2160-IS	TK-3160-IS
GENERAL			RECEIVER (Measurements made per TIA/EIA-603)		
Frequency Range			Sensitivity(12dB SINAD)		
	Type 1	136 - 174MHz		Wide/Narrow	0.25µV / 0.28µV
	Type 2	-			
	Type 3	-	Selectivity	Wide/Narrow	70dB / 62dB
Number of Channels*			Intermodulation Distortion		
		Max. 16		Wide/Narrow	65dB / 60dB
CH Spacing	Wide	25, 30kHz			
	Narrow	12.5, 15kHz	Spurious Response		65dB
Battery Voltage	7.5V DC ± 20%		Audio Output(8Ω impedance)	500mW with less than 10 % distortion	
Battery Life(5-5-90 duty cycle, during hi-power) with KNB-40LC			TRANSMITTER (Measurements made per TIA/EIA-603)		
	Approx. 11 hours		RF Power Output		
Operating Temperature Range	-22°F ~ +140°F (-30°C ~ +60°C)			High/Low	5W / 1W 4W / 1W
Frequency Stability	2.5ppm		Spurious Response	70 dB	
Antenna Impedance	50Ω		Modulation		
Channel Frequency Spread				Wide/Narrow	16K0F3E/11K0F3E
	Type 1	38MHz	FM Noise		
	Type 2	-		Wide/Narrow	45dB / 43dB 45dB / 40dB
	Type 3	-	Audio Distortion	Less than 5%	
Dimensions (W x H x D), Projections not included			<i>Kenwood follows a policy of continuous advancement in development.</i>		
	with KNB-40LC	56.0 x 109.3 x 34.5 mm	<i>For this reason specifications may be changed without notice.</i>		
Weight	Radio Only	165g	<i>FleetSync® is a registered trademark of Kenwood Corporation.</i>		
	with KNB-40LC	282g (without antenna)			
FCC ID	Type 1	ALH36413110			
	Type 2	-			
	Type 3	-			

Applicable MIL-STD & IP

Standard	MIL 810C Method/Procedures	MIL 810D Method/Procedures	MIL 810E Method/Procedures	MIL 810F Method/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			

Kenwood Electronics Singapore Pte. Ltd.

1 Ang Mo Kio Street 63 Singapore 569110

Website : <http://sg.kenwood.com>

email : sales@kenwoodaudio.com



ISO9003(V1.0)