

TK-2170/3170 Intrinsically Safe

Compact VHF/UHF FM Portable Radios

FleetSync®



Intrinsically Safe USTC Approval

Rugged, Compact size : Kenwood's TK-2170/3170 Intrinsically Safe portable radios are essential for organisations serious about mobile communication in hazardous environments.

IS RATING

TK-2170/3170-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, 400-430 MHz)
- Conventional Zones
- 128 Channels / 128 Zones
- Single Priority Scan
- Single & Multi-Zone Scan
- List Scan
- 8 Character Alphanumeric Aliases
- Backlit LCD
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF Keys
- 3 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF / PF Keypad Models
- 500mW Audio Power

- Companded Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Emergency Call Features
- QT / DQT / DTMF / 2-TONE
- MIL-STD-810 C/D/E/F
- IP-54/55 Water & Dust Intrusion

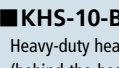
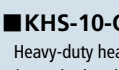
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- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages
- PC Serial Interface



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-21 Speaker Microphone 	■ KHS-7A Lightweight Single Muff Headset 	■ KBH-12 Belt Clip (Same as Supplied) 

Specifications

Model	TK-2170-IS		TK-3170-IS	Model	TK-2170-IS		TK-3170-IS	
GENERAL				RECEIVER (Measurements made per TIA/EIA-603)				
Frequency Range				Sensitivity(12dB SINAD)				
	Type 1	136 - 174MHz	450 - 490MHz		Wide/Narrow	0.25µV / 0.28µV		
	Type 3	-	400 - 430MHz	Selectivity				
Number of Channels*					Wide/Narrow	70dB / 65dB		
	Zone	Max. 128 per Radio			Intermodulation Distortion			
	Conv. Ch	Max. 128 per Zone				Wide/Narrow	65dB / 60dB	
CH Spacing	Wide	25, 30kHz	25kHz	Spurious Response				
	Narrow	12.5, 15kHz	12.5kHz	65dB				
Battery Voltage		7.5V DC ± 20%			Audio Output(8Ω impedance)			
Battery Life(5-5-90 duty cycle, during hi-power)					500mW with less than 5 % distortion			
with KNB-40LC		Approx. 11 hours			TRANSMITTER (Measurements made per TIA/EIA-603)			
Operating Temperature Range*		-22°F ~ +140°F (-30°C ~ +60°C)			RF Power Output			
Frequency Stability		2.5ppm				High/Low	5W / 1W	
Antenna Impedance		50Ω					4W / 1W	
Channel Frequency Spread				Spurious Response				
	Type 1	38MHz	40MHz	70 dB				
	Type 3	-	30MHz	Modulation				
Dimensions (W x H x D), Projections not included					Wide/Narrow	16K0F3E/11K0F3E		
with KNB-40LC				56.0 x 109.3 x 34.5 mm				
Weight				FM Noise				
	Radio Only	205g				Wide/Narrow	45dB / 43dB	
	with KNB-40LC	340g [with antenna(KRA-22/23) and belt clip(KBH-12)]			Audio Distortion			
FCC ID	Type 1	ALH34703110	ALH34713110	Less than 5%				
	Type 3	-	ALH34713130	Kenwood follows a policy of continuous advancement in development.				
* -10°C ~ +60°C when KNB-40LC in use				For this reason specifications may be changed without notice.				
				FleetSync® is a registered trademark of Kenwood Corporation.				

* -10°C ~ +60°C when KNB-40LC in use

Model	TK-2170-IS	TK-3170-IS
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity(12dB SINAD)		
	Wide/Narrow	0.25μV / 0.28μV
Selectivity		
	Wide/Narrow	70dB / 65dB
Intermodulation Distortion		
	Wide/Narrow	65dB / 60dB
Spurious Response		65dB
Audio Output(8Ω impedance)	500mW with less than 5 % distortion	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output		
	High/Low	5W / 1W 4W / 1W
Spurious Response		70 dB
Modulation		
	Wide/Narrow	16K0F3E/11K0F3E
FM Noise		
	Wide/Narrow	45dB / 43dB
Audio Distortion		Less than 5%

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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			

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ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

KES09004(V1.0)