

Ergonomically styled yet tough enough to comply with both MIL-STD and IP54/55 environmental standards, these portables provide the features and performance needed for a wide range of workplaces - from warehouses and stations to shops and hotels. As well as handling both analogue and digital communications, these user-friendly DMR radios can even operate in direct mode, without a repeater. They also offer such KENWOOD added value as Call Interrupt and 1-watt audio output. These truly resourceful team members will enable you to make the most of your legacy analogue equipment while also benefitting from digital communications.



Two-slot TDMA

Belonging to the DMR Tier II category, which covers licensed conventional systems, these radios are specified for 2-slot Time Division Multiple Access (TDMA) operation in 12.5 kHz channels. This means they can offer greater spectrum efficiency.

Two-in-One - Digital & Analogue

These DMR radios can operate in both digital and FM analogue modes, switching automatically as needed. Interoperability with legacy analogue radios allows organizations to migrate to full digital at their own pace.

Dual-slot Direct Mode

Up to two simultaneous subscriber calls can be supported in a 12.5 kHz channel, without requiring a base station or repeater, thus doubling channel capacity.

Call Interruption

In an emergency or whenever a user needs to interrupt a call, Call Interruption is available in both direct and repeater modes, while encoding or decoding. There is also a Lone Worker function to protect employees working alone.

Tough All-terrain

These portable radios conform to MIL-STD C/D/E/F/G standards for ruggedness, and are IP54/55 rated for water & dust intrusion, making them more than capable of withstanding harsh operating conditions.

Slim Styling

Compact form with ergonomically stylish design make these radios easy to grip and operate.

Long Battery Life

Battery life is always important for radio users. Both Lithium-Ion and Ni-MH rechargeable batteries are available. Regardless of battery type, operating hours are longer in digital mode.

Clear, Powerful Audio

A radio's most important quality is clarity - being able to hear, loud and clear, what the other party is saying. And these portables deliver just that. For a start, there is 1 W of audio output power, while the AMBE+2TM VOCODER technology accurately replicates natural human speech nuances for superior voice quality, even with high levels of ambient noise. Additionally, Voice Announcement can confirm the channel number, so there is no need to look at the display. English is the default language, but Spanish, French, German, Italian, Dutch and Russian are also available.

5-Tone Signalling

A series of programmed audio tones are used to specify one or more radios to initiate a conversation; all other radios will remain muted. Several standard signalling formats are available.

Other features

- Max. 32 channels in 2 zones (16 channels per zone)
- Wide 70 MHz UHF coverage
- Selectable 8- or 16-channel using channel stopper
- 5/1 W (VHF), 4/1 W (UHF) output
- Audio output power 1 W at 12 Ohm
- Scanning functions
- Password protection (read/overwrite)
- Minimum volume setting
- Embedded message
- Selective call alert LED
- Key lock
- Late entry
- Analogue signalling: QT/DQT, FleetSync, 5-tone signalling
- Compander per channel
- Squelch level

OPTIONS									
KNB-45L Li-Ion battery pack (7.2 V / 2000 mAh)		KSC-316 6-pocket multiple charger (for KNB- 45L/69L & KNB-53N)		KRA-23 UHF low profile helical antenna		KMC-21 Speaker microphone (compact size)		KHS-22 Lightweight headset with boom micro- phone & PTT	
KNB-53N Ni-MH battery pack (7.2 V / 1400 mAh)		KSC-356 6-pocket multiple charger (for KNB- 45L/69L)		KRA-26 VHF helical antenna (standard length)		KMC-45D Speaker microphone		KBH-10 Belt clip	
KNB-69L Li-Ion battery pack (7.2 V / 2450 mAh)		KMB-35 Multi charger adapter (6-unit for KSC-355SCR)		KRA-27 UHF whip antenna (standard length)		KEP-2 2.5 mm earphone kit (for KMC-45D)			
KSC-355 Rapid charger (for KNB-45L/69L)		KSC-355SCR Charger pocket (for KMB-35)		KRA-41 VHF stubby antenna		KHS-8BL 2-wire palm microphone with earphone			
KSC-43 Rapid charger (for KNB-45L/69L & KNB-53N)		KRA-22 VHF low profile helical antenna		KRA-42 UHF stubby antenna		KHS-8NC Two-wire palm noise cancel-micro- phone with earpiece			

All accessories and options may not be available in all markets. Contact an authorized KENWOOD dealer for details and a complete list of all accessories and options.

SPECIFICATIONS		
GENERAL	TK-D240	TK-D340
Frequency range	136 - 174 MHz	400 - 470 MHz
Number of channels	32 ch / 2 zones	
Channels spacing	Analogue Digital	25 / 20 / 12.5 kHz 12.5 kHz
Operating voltage	7.5 V DC \pm 20%	
Battery life (5-5-90, battery saver off)	Analogue / Digital \pm 11.5 / 13.5 hrs with KNB-45L \pm 14.0 / 17.0 hrs with KNB-69L \pm 8.0 / 10.0 hrs with KNB-53N	
Operating Temperature Range	-30°C to +60°C (with KNB-45L/69L: -10°C to +60°C)	
Frequency Stability	\pm 2.0 / \pm 1.0 ppm	
Antenna Impedance	50 Ohm	
Dimensions (W x H x D)	with KNB-45L with KNB-69L with KNB-53N	54 x 121.4 x 33.8 mm 54 x 121.4 x 37.8 mm 54 x 121.4 x 33.8 mm
Weight	with KNB-45L with KNB-69L with KNB-53N	285 g 310 g 360 g

Specifications shown are typical. Analogue measurements accord with TIA 603, EN 300 086 & 219. Digital measurements accord with EN 300 113, R&TTE & Safety Standards: EN300 086-2, EN 300 113-2, EN 300 219-2, EN 301 489-5, EN 60065, EN 60950-1, EN 60215, EN 62209 (SAR).

Details and timing of firmware and software updates are subject to change without notice. Specifications are subject to change without notice. Specifications are subject to change without notice due to advancements in technology. FleetSync® is a registered trademark of JVCKENWOOD Corporation. AMBE+2™ is a trademark of Digital Voice Systems Inc. All other trademarks are the property of their respective holders.

SPECIFICATIONS		
RECEIVER	TK-D240	TK-D340
Sensitivity	Digital 1 % BER Digital 5 % BER Analogue (20 dB SINAD) @ 25 / 20 / 12.5 kHz	
Adjacent channel selectivity Analogue @ 25 / 20 / 12.5 kHz	-1 dB μ V (0.45 μ V) -4.5 dB μ V (0.3 μ V) -3 dB μ V (0.35 μ V) / -3 dB μ V (0.35 μ V) / -1 dB μ V (0.45 μ V)	
Intermodulation Distortion - Analogue	74 / 72 / 67 dB	
Superious Response - Analogue	65 dB	
Audio distortion	70 dB	
Audio output	Less than 10 % 1 W / 12 Ohm (internal speaker) 500 mW / 8 Ohm (external speaker)	
TRANSMITTER		
RF power output	5 / 1 W	4 / 1 W
Spurious Response	< 1 GHz \leq -36 dBm, 1 GHz - 4 GHz \leq -30 dBm	
FM hum & noise Analogue @ 25 / 20 / 12.5 kHz	45 / 45 / 40 dB	
Audio distortion	Less than 2 %	
Emission designator	16K0F3E, 14K0F2D, 14K0F3E, 12K0F2D, 8K50F3E, 7K50F2D, 7K60FXD, 7K60FXE	

ENVIRONMENTAL SPECIFICATIONS					
MIL-STD	METHOD / PROCEDURES				
	810C	810D	810E	810F	810G
Low Pressure	500.1/ I	500.2 / I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temperature Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain ¹	506.1/ I, II	506.2/ I, II	506.3/ I, III	506.4/ I, III	506.5/ I, III
Humidity	507.1/ I, II	507.2/ I, III	507.3/ I, III	507.4	507.5/ II
Salt Fog ¹	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust ¹	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, II, V	516.3/ I, IV	516.4/ I, IV	516.5/ I, IV	516.6/ I, IV
International Protection Standard					
Dust & Water Protection	IP54 / 55 ¹				

*1 The 2-pin connector cover has to be connected to the radio, or the locking bracket has to be attached to the KMC-45 external speaker microphone.

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CL830E-E-2