

TK-D240V/D340U

VHF/UHF DIGITAL TRANSCEIVER

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 analog 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 analog equipment while also benefitting from digital communications.

Features

- 5/1 W (VHF), 4/1 W (UHF) output
- Max. 32 ch in 2 zones (16 ch per zone)
- Wide 70 MHz UHF coverage
- Selectable 8- or 16-channel using channel stopper
- Audio output power 1 W @ 12 Ω
- Scanning functions
- Password protection (read/overwrite)
- Minimum volume setting
- Embedded message
- Selective call alert LED
- Key lock
- Late entry
- Analog signalling: QT/DQT
- FleetSync® II
- Companion per channel
- Squelch level
- MIL-STD-810 C/D/E/F/G
- IP54/55 Dust & Water Protection
- Intrinsically Safe Option

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 & Analog

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

DMR **FleetSync®**
II



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.

Longer 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+2™ 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 and French are also available.

Ultimate Performance & Ergonomic Design

RF output power is 5W for VHF (TK-D240V) and 4W for UHF (TK-D340U) models. Slim contours and ergonomic design of the TK-D240V/D340U make it comfortable to hold, while dimples on both sides ensure a firm grip.

Accessories

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

KNB-29N
Ni-MH Battery Pack
(1,500mAh)



KNB-45L
2,000mAh/7.4V
Li-Ion Battery Pack



KNB-69L
2,550mAh/7.4V
Li-Ion Battery Pack



KNB-82LCM
2,000mAh/7.4V, Intrinsically
Safe Li-Ion Battery Pack



KSC-43K
Dual Chemistry
Fast Charger
For the KNB 29N/45L/69L/82LCM



KVC-22
DC Vehicular
Charger Adapter



KRA-22/23
VHF/UHF Low Profile
Helical Antenna



KRA-26/ 27
VHF Helical Antenna
UHF Whip Antenna



KRA-41/42
VHF/UHF Stubby Antenna



KMC-45D
Speaker Microphone



KMC-21
Compact Speaker
Microphone



KEP-2
Earphone Kit for
KMC-45D (2.5mm plug)



KHS-7
Single Muff Headset



KHS-22A
Behind-the-head
Headset with PTT



KHS-26
Earbud In-line
PTT Headset



KHS-27A
D-Ring In-line
PTT Headset



KHS-31C
C-Ring PTT Ear
Hanger Headset



KMB-28AK
Six Unit Charger
Adapter (for six
KSC-35SK chargers)



KBH-10
Belt Clip



KLH-187
Nylon Case



Specifications

General		TK-D240V	TK-D340U
Frequency Range	Type 1 Type 2	136-174 MHz	450-520 MHz 400-470 MHz
Number of Channels		32	
Number of Zones		2	
Max. Channels per Zone		16	
Channel Spacing	Analog Digital	25*/12.5 kHz 12.5 kHz/6.25 kHz	
Power Supply		7.5V DC \pm 20%	
Battery Life		(5-5-90 during hi-power battery saver: OFF/ON) KNB-45L (2000mAh) KNB-69L (2550mAh)	115 / 135 hours 14 / 17 hours
Operating Temperature	with KNB-45L/69L	-22° F ~ +140° F (-30° C ~ +60° C) 14 °F to +140 °F (-10 °C to +60 °C)	
Frequency Stability		\pm 2.0 ppm	\pm 10 ppm
Antenna Impedance		50 Ω	
Dimensions		(W x H x D) Projections Not Included Radio with KNB-45L Radio with KNB 69L	213 x 4.78 x 1.33 in (54 x 121.4 x 33.8 mm) 213 x 4.78 x 1.49 in (54 x 121.4 x 37.8 mm)
Weight		Radio with KNB-45L Radio with KNB 69L	10.0 oz (285g) 10.9 oz (310g)
FCC ID	Type 1 Type 2	K44475400	K44475501 K44475500

Analog measurements made per TIA603. Specifications are measured according to applicable standards.
Specifications are subject change without notice, due to advancements in technology.

Receiver		TK-D240V	TK-D340U
Sensitivity	Digital (1% BER) Digital (5% BER) Analog (12dB SINAD)		0.45 μ V 0.3 μ V 0.25 μ V
Selectivity	Analog @ 12.5kHz Analog @ 25kHz		68 dB 74 dB
Intermodulation Distortion			72 dB
Spurious Response			70 dB
Audio Distortion			Less than 10%
Audio Output Power		1 W / 12 Ω (Internal Output) 500mW / 8 Ω (External Output)	

Transmitter		TK-D240V	TK-D340U
RF Power Output (High / Low)		5 W / 1 W	4 W / 1 W
Spurious Response			70 dB
FM Hum & Noise	Analog @ 12.5kHz Analog @ 25*kHz		40 dB 45 dB
Audio Distortion			Less than 2%
Emission Designator		16K0F3E, 11K0F3E, 7K60FXE, 7K60FXD	

*Analog 25 kHz is not included in the models sold in the USA or US territories.
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MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
Low Pressure	5001/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	5011/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
International Protection Standard					
Dust & Water Protection*	IP54/55*				

* To meet MIL-810 and IP grade, the 2-pin connector must be secure.

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