

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.

### 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, 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.
























### Slim Styling

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

### Other features

- Max. 32 ch in 2 zones (16 ch 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 @ 12 Ω
- 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

|  |   |  |  |   |
|--|---|--|--|---|
| <p><b>KNB-45L</b><br/>Li-ion BATTERY PACK<br/>(7.2 V/2000 mAh)</p>    | <p><b>KSC-316</b><br/>6-POCKET MULTIPLE CHARGER<br/>(6-pocket for Li-ion KNB-45L/69L &amp; Ni-MH KNB-53N)</p>  | <p><b>KRA-22</b><br/>VHF HELICAL ANTENNA<br/>(Low Profile)</p>      | <p><b>KMC-21</b><br/>SPEAKER MICROPHONE<br/>(Compact Size)</p>  | <p><b>KHS-8NC</b><br/>2-WIRE PALM MIC W/<br/>EARPHONE, NC</p>  |
| <p><b>KNB-53N</b><br/>Ni-MH BATTERY PACK<br/>(7.2 V/1400 mAh)</p>     | <p><b>KSC-356</b><br/>6-POCKET MULTIPLE CHARGER<br/>(6-pocket for Li-ion KNB-45L/69L)</p>                      | <p><b>KRA-23</b><br/>UHF HELICAL ANTENNA<br/>(Low Profile)</p>      | <p><b>KMC-45D</b><br/>SPEAKER MICROPHONE</p>                    | <p><b>KHS-22</b><br/>BEHIND-THE-HEAD<br/>HEADSET W/PTT</p>     |
| <p><b>KNB-69L</b><br/>Li-ion BATTERY PACK<br/>(7.2 V/2450 mAh)</p>    | <p><b>KMB-35</b><br/>MULTI CHARGER ADAPTER<br/>(6-unit for KSC-35SCR)</p>                                      | <p><b>KRA-26</b><br/>VHF HELICAL ANTENNA<br/>(Standard Length)</p>  | <p><b>KEP-2</b><br/>2.5 mm EARPHONE<br/>KIT (for KMC-45D)</p>   | <p><b>KBH-10</b><br/>BELT CLIP</p>                             |
| <p><b>KSC-35S</b><br/>RAPID CHARGER (for<br/>Li-ion KNB-45L/69L)</p>  | <p><b>KSC-355</b><br/>RAPID CHARGER (for<br/>Li-ion KNB-45L/69L &amp;<br/>Ni-MH KNB-53N)</p>                   | <p><b>KRA-27</b><br/>UHF WHIP ANTENNA<br/>(Standard Length)</p>     | <p><b>KHS-8BL/BE</b><br/>2-WIRE PALM MIC<br/>W/ EARPHONE</p>    |   |
|  | <p><b>KSC-43</b><br/>RAPID CHARGER (for<br/>Li-ion KNB-45L/69L &amp;<br/>Ni-MH KNB-53N)</p>                    | <p><b>KRA-41</b><br/>VHF STUBBY<br/>ANTENNA</p>                     |  |   |
|  | <p><b>KSC-35SCR</b><br/>CHARGER POCKET<br/>(for KMB-35)</p>    | <p><b>KRA-42</b><br/>UHF STUBBY<br/>ANTENNA</p>                     |  |   |

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

|  |                  | TK-D240  | TK-D340     |
|--|------------------|--|-------------|
| <b>GENERAL</b>                                 |                  |  |             |
| Frequency Range                                |                  | 136-174 MHz  | 400-470 MHz |
| Number of Channels                             |                  | 32 ch/2 zones  |             |
| Channel Spacing                                | Analogue         | 25/20/12.5 kHz                                       |             |
|  | Digital          | 12.5 kHz   |             |
| Operating Voltage                              |                  | 7.5 V DC ± 20 %                                      |             |
| Battery Life<br>(5-5-90,<br>battery saver off) | Analogue/Digital | approx. 11.5/13.5 hrs w/KNB-45L                      |             |
|  |                  | approx. 14/17 hrs w/KNB-69L                          |             |
|  |                  | approx. 8/10 hrs w/KNB-53N                           |             |
| Operating Temperature Range                    |                  | -30°C to +60°C<br>(with KNB-45L/69L: -10°C to +60°C) |             |
| Frequency Stability                            |                  | ±2.0/±1.0 ppm  |             |
| Antenna Impedance                              |                  | 50 Ω   |             |
| Dimensions<br>(W x H x D)                      | w/KNB-45L        | 54 x 121.4 x 33.8 mm                                 |             |
|  | w/KNB-69L        | 54 x 121.4 x 37.8 mm                                 |             |
|  | w/KNB-53N        | 54 x 121.4 x 33.8 mm                                 |             |
| Weight   | w/KNB-45L        | 285 g  |             |
|  | w/KNB-69L        | 310 g  |             |
|  | w/KNB-53N        | 360 g  |             |

|                              |  | TK-D240   | TK-D340 |
|------------------------------|--|---|---------|
| <b>RECEIVER</b>              |  |   |         |
| Sensitivity                  | Digital 1 % BER                            | -1 dBμV (0.45 μV)   |         |
|                              | Digital 5 % BER                            | -4.5 dBμV (0.3 μV)  |         |
|                              | Analogue (20 dB SINAD)<br>@ 25/20/12.5 kHz | -3 dB μV (0.35 μV) / -3 dB μV (0.35 μV) /<br>-1 dB μV (0.45 μV)           |         |
| Adjacent Channel Selectivity | Analogue @<br>25/20/12.5 kHz               | 74/72/67 dB   |         |
| Intermodulation Distortion   | Analogue                                   | 65 dB   |         |
| Spurious Response            | Analogue                                   | 70 dB   |         |
| Audio Distortion             |  | Less than 10 %  |         |
| Audio Output                 |  | 1 W/12 Ω (Internal speaker)<br>500 mW/8 Ω (External speaker)              |         |
| <b>TRANSMITTER</b>           |  |   |         |
| RF Power Output              |  | 5/1 W   | 4/1 W   |
| Spurious Response            |  | <1 GHz ≤ -36 dBm, 1 GHz - 4 GHz ≤ -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,<br>8K50F3E, 7K50F2D, 7K60FXD, 7K60FXE |         |

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: EN 300 086-2, 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 change without notice, due to advancements in technology.  
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AMBE+2™ is a trademark of Digital Voice Systems Inc.  
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## 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, II   | 506.4/I, III | 506.5/I, III |
| Humidity                                 | 507.1/I, II         | 507.2/II, III | 507.3/II, 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  |
| <b>International Protection Standard</b> |                     |               |               |              |              |
| 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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