Your business will have to adopt digital radios sooner or later, you know that, but you probably wonder when to make the extra investment. A leap into the unknown? Not with the new NEXEDGE NX-240/340. It operates in both analog FM and NXDN digital modes, offering a cost-effective way to migrate smoothly from legacy systems while discovering the benefits of advanced digital technology – including increased effective coverage area, low noise for superior clarity, and inherent secured voice. All this comes in a tough, compact radio that is easy to operate, delivers high-powered audio, and ensures round-the-clock reliability. Don’t delay the opportunity to expand the potential of your business.

NX-240/340 NEXEDGE VHF/UHF Digital & FM Portable Radios

NXDN™

NEXEDGE DIGITAL AIR INTERFACE
NEXEDGE radios employ NXDN, an FDMA digital air interface with AMBE+2™ voice coding technology, unique filtering and a 4-level FSK modulation technique with low bit error rate (BER) even at weak RF signal strengths.

ENHANCED AUDIO QUALITY
AMBE+2 VOCODER technology accurately replicates natural human speech nuances for superior voice quality, even at highway speeds. Additionally, the powerful 36mm-diameter speaker delivers up to 1 watt audio output, providing undeniably clearer and crisper audio.

ULTIMATE PERFORMANCE
RF output power is 5W for both VHF (NX-240) and UHF (NX-340). Additionally, the UHF frequency coverage on the NX-340 is 70 MHz.

ERGONOMIC DESIGN
The slim contours and ergonomic design of the NX-240/340 make it comfortable to hold, while the dimples on both sides ensure a firm grip.

32 CHANNELS / 2 ZONES
The NX-240/340 can be used with two conventional zones, offering up to 16 channels per zone.

SWITCHABLE DIGITAL AND ANALOG DUAL MODES
The NX-240/340 is effectively two radios in one – analog and digital – operating on 12.5/25* kHz in analog zones, and on 6.25/12.5 kHz NXDN in digital zones. For convenience, a PF key can be used to switch between zones.

*25 kHz is not included in the models sold in the USA or US territories.

6.25/12.5 kHz NXDN DIGITAL CHANNEL
Digital communications are more spectrum-efficient and offer wider area coverage than analog.

NXDN CONVENTIONAL
Compatible with NEXEDGE Digital Conventional Mode, this radio offers 64 RAN (Radio Access Numbers) and individual & conference group calling to ensure expeditious communications.

NXDN TYPE-D DIGITAL TRUNKING*
The NX-240/340 supports the NXDN Type-D digital trunking protocol.* With this architecture, also known as distributed or decentralized trunking, all channels can operate as traffic channels without the need for a dedicated control channel. This makes it possible to develop an efficient and reliable yet affordable trunking system. Type-D trunking is thus suitable for users considering migration to a small-scale digital trunking system.

*Requires activation

HIGH SECURITY
Confidentiality in radio communications is a KENWOOD priority, and helping to maintain a high level of security in analog mode is a 16-code voice inversion scrambler, while robust NXDN encryption is available in digital mode.

GPS CONNECTIVITY
The optional KMC-48GPS Speaker Microphone will enable GPS tracking applications to work with the NX-240/340. GPS data can be transmitted at programmed timing, or upon receiving a request.

OTHER FEATURES

DIGITAL: • Over-The-Air Alias (TX only) • Paging Call • Individual Call & Conference Group Call • Status Messaging • Remote Monitor • Site Roaming • Late Entry • NXDN ESN

ANALOG: • FleetSync, MDC-1200, DTMF • QT/DQT/2-tone • Comprander • Squelch Level

GENERAL: • Multiple Scan • 4-Color LED (Blue / Red / Green / Orange) • 2 PF Keys • 16-Position Mechanical Selector • Zone / Channel Number Voice Announcement • VDX Ready • Emergency Call • Remote Stun/Kill • Lone Worker Alert (per channel) • Time Out Timer • Busy Channel Lockout • Low Battery Warning • Battery Saver • KPG-170D Windows® TPU • Wireless Cloning • Password Protection • PTT Release Tone • Minimum Volume • Mic Sense • MIL-STD-810 C/D/E/F/G • IP54/55 Water & Dust Intrusion

http://nexedge.kenwood.com
**OPTIONAL ACCESSORIES**

- **KNB-45L**
  - Li-ion Battery Pack
  - (7.4 V/2000 mAh)

- **KSC-35SK**
  - Rapid Charger
  - (for the KNB-45L)

- **KVC-22**
  - DC Vehicular Charger Adapter

- **KRA-26**
  - VHF Helical Antenna
  - (Standard Length)

- **KMC-45**
  - Speaker Microphone

- **KHS-31**
  - C-Ring Ptt Ear Hanger Headset

- **KRA-27**
  - UHF Whip Antenna
  - (Standard Length)

- **KHS-26**
  - EARBUD IN-LINE Pit Headset

- **KMC-48GPS**
  - GPS Speaker Microphone

- **KHS-27**
  - D-Ring In-Line Pit Headset

- **KLAH-187**
  - Nylon Case

**SPECIFICATIONS**

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<tr>
<th>General</th>
<th>NX-240</th>
<th>NX-340</th>
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<tbody>
<tr>
<td>Frequency Range</td>
<td>Type 1</td>
<td>136-174 MHz</td>
</tr>
<tr>
<td>Channel Spacing</td>
<td>Digital</td>
<td>12.5/6.25 kHz</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>Digital</td>
<td>7.5V DC ± 20%</td>
</tr>
<tr>
<td>Battery Life</td>
<td>5-6 hours (in power battery saver)</td>
<td>Approx. 10/12 hours</td>
</tr>
<tr>
<td>Dimensions</td>
<td>162 x 35 x 33.5 mm (6.4 x 1.38 x 1.31 in)</td>
<td></td>
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<tr>
<td>Weight</td>
<td>281 g (9.9 oz)</td>
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**RECEIVER**

- Sensitivity:
  - Digital @ 6.25 kHz (3 % BER): 0.25 μV
  - Digital @ 12.5 kHz (3 % BER): 0.25 μV

- Selectivity:
  - Analog @ 12.5 kHz: 50 dB
  - Analog @ 25 kHz: 70 dB

- Intermodulation:
  - Analog: 70 dB

- Audio Distortion:
  - Less than 10 %

- Spurious Response:
  - Analog: 70 dB

**TRANSMITTER**

- RF Power Output:
  - High: 5 W / 12 V (External Speaker)
  - Low: 45 dB

- FM Hum & Noise:
  - Analog @ 12.5 kHz: 40 dB
  - Analog @ 25 kHz: 45 dB

- Audio Distortion:
  - Less than 10 %

**TYPICAL APPLICATIONS**

- KNB-45L: Li-ion Battery Pack
- KSC-35SK: Rapid Charger
- KRA-26: VHF Helical Antenna (Standard Length)
- KMC-45: Speaker Microphone
- KHS-31: C-Ring Ptt Ear Hanger Headset
- KRA-27: UHF Whip Antenna (Standard Length)
- KHS-26: EARBUD IN-LINE Pit Headset
- KMC-48GPS: GPS Speaker Microphone
- KHS-27: D-Ring In-Line Pit Headset
- KLAH-187: Nylon Case

**ACCESSORIES INCLUDED**

- KNB-45L: Li-ion Battery Pack
- KSC-35SK: Rapid Charger
- KRA-26: VHF Helical Antenna (Standard Length)
- KHS-31: C-Ring Ptt Ear Hanger Headset
- KRA-27: UHF Whip Antenna (Standard Length)
- KHS-26: EARBUD IN-LINE Pit Headset
- KBH-10: Belt Clip
- CHANNEL STOPPER

**APPLICABLE MIL-STD & IP**

<table>
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<th>MIL-STD Standards/Guidelines</th>
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<td>MIL-STD-810C, MIL-STD-810D, MIL-810G</td>
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<tr>
<td>Vibration</td>
<td>MIL-STD-810B, MIL-810C, MIL-810G</td>
</tr>
<tr>
<td>Shock</td>
<td>MIL-STD-810B, MIL-810C, MIL-810G</td>
</tr>
</tbody>
</table>

**INTERNATIONAL PROTECTION STANDARD**

- Dust & Water Protection: IP45/4X

*To meet MIL-810 and IP grade, the 2-pin connector has to be connected.

**JVC/KENWOOD Corporation**

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