

## NEXEDGE®

# NX-240/340

NEXEDGE® VHF/UHF Digital & FM Portable Radios

## NXDN®

FleetSync®

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.



### ● NXDN® 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 70MHz.

### ● 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 12.5kHz in analog zones, and on 6.25kHz NXDN® in digital zones. For convenience, a PF key can be used to switch between zones.

### ● 6.25kHz 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.

### ● 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  
• Comander • Squelch Level  
**GENERAL:** • Multiple Scan • 4-Color LED (Blue / Red / Green / Orange) • 2 PF Keys • 16-Position Mechanical Selector  
• Zone / Channel Number Voice Announcement • VOX Ready  
• Emergency Call • Remote Stun/Kill • Lone Worker Alert (per channel) • Time Out Timer • Busy Channel Lockout  
• Low Battery Warning • Battery Saver • KPG-169D Windows®  
FPU • Wireless Cloning • Password Protection • PTT Release Tone • Minimum Volume • Mic Sense • MIL-STD-810 C/D/E/F/G  
• IP54/55 Water & Dust Intrusion

## Options

■ **KNB-29N**  
1,500mAh/7.2V  
Ni-MH Battery Pack



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



■ **KNB-53N**  
1,400mAh/7.2V  
Ni-MH Battery Pack



■ **KNB-69L**  
2,450mAh/7.4V  
Li-Ion Battery Pack



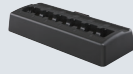
■ **KSC-355**  
Rapid Charger  
(for KNB-45L/69L)



■ **KSC-43**  
Rapid Charger  
(for KNB-29N/  
45L/53N/69L)



■ **KSC-356**  
6 Packet  
Multiple Charger  
(for KNB-45L/69L)



■ **KRA-22**  
VHF Helical Antenna  
(Low Profile)



■ **KRA-23**  
UHF Helical Antenna  
(Low Profile)



■ **KRA-26**  
VHF Helical Antenna



■ **KRA-27**  
UHF Whip Antenna



■ **KRA-41**  
VHF Stubby Antenna



■ **KRA-42**  
UHF Stubby Antenna



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



■ **KMC-21**  
Compact Speaker  
Microphone



■ **KMC-45**  
Speaker Microphone



■ **KBH-10**  
Belt Clip



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.

## Main Specifications

	NX-240	NX-340
<b>GENERAL</b>		
Frequency Range	136-174 MHz	400-470 MHz [M2] / 450-520 MHz
Number of Channels	32	
Zones	2	
Max. Channels per Zone	16	
Channel Spacing	12.5 kHz 6.25 kHz	
Operating Voltage	7.5V DC ± 20%	
Battery Life	5-5.90 during hi-power battery saver: OFF/ON with KNB-45L OFF/ON with KNB-69L OFF/ON with KNB-53N OFF/ON with KNB-29N	
Operating Temperature Range	-30°C ~ +60°C (-22°F ~ +140°F)	
Frequency Stability	±2.0ppm	±1.0ppm
Antenna Impedance	50 Ω	
Dimensions (W x H x D)	with KNB-45L, KNB-53N, or KNB-29N 54 x 122 x 35.3 mm with KNB-69L 54 x 122 x 39.4 mm	
Weight (net)	Radio only with KNB-45L with KNB-69L with KNB-53N with KNB-29N	
	165 g	281 g 296 g 351 g 361 g

	NX-240	NX-340
<b>RECEIVER</b>		
Sensitivity	Digital Analog (12 dB SINAD)	0.25 μV 0.25 μV
Selectivity	Analog	60 dB
Intermodulation Distortion	Analog	60 dB
Spurious Response	Analog	70 dB
Audio Distortion	Less than 10%	
Audio Output	1 W / 12 Ω (Internal Speaker) 500mW / 8 Ω (External Output)	
<b>TRANSMITTER</b>		
RF Power Output	High / Low	5 W / 1 W
Spurious Response	70 dB	
FM Hum & Noise	Analog	40 dB
Audio Distortion	Less than 10%	
Modulation	11K0F3E, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Specifications are subject to change without notice, due to advancements in technology.  
Measurements made per TIA/EIA-603 and Specification are typical.

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Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

AMBE+2™ is a trademark of Digital Voice Systems Inc.

NXDN® is a registered trademark of JVCKENWOOD Corporation and Icom Inc.

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## Applicable 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	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/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	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 has to be connected.

## ACCESSORIES INCLUDED

- KBH-10 Belt Clip
- Channel Stopper
- KNB-53N Ni-MH Battery Pack\*
- KSC-43 Rapid Charger\*

\*NX-240M2/NX-340M3 only

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ISO9001 Registered  
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