KENWOOD

NEXEDGE®

NXDN® FleetSync®

NX-240/340

NEXEDGE® VHF/UHF DIGITAL & FM PORTABLE RADIOS

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.

Features

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-169DK 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
- Intrinsically Safe Option

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® II, MDC-1200, DTMF
- QT/DQT/2-tone, Compander, Squelch Level

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™ voice coding 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 & Ergonomic Design

RF output power is 5W for both VHF (NX-240) and UHF (NX-340) models. Additionally, the UHF frequency coverage on the NX-340 is 70 MHz (excludes Type 3). Slim contours and ergonomic design of the NX-240/340 make it comfortable to hold, while dimples on both sides ensure a firm grip.

Analog and Digital 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.

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 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, single site digital trunking system.

Accessories Included

▪ KNB-45L Li-ion Battery Pack ▪ KSC-35S Rapid Charger ▪ KRA-26 VHF Helical Antenna (Std. Length) with NX-240 ▪ KRA-27 UHF WHIP ANTENNA (Std. Length) with NX-340 ▪ KBH-10 Belt Clip

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-35SK
Fast Charger
For the KNB-45L/69L/82LCM (3-Hour)

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-7A
Single Muff Headset
with In-line PTT

KHS-8BL
2-Wire Palm Mic
with Earphone (Black)

KHS-9BL
3-Wire Lapel Mic
with Earphone (Black)

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		NX-240	NX-340
Frequency Range	Type 1	136-174 MHz	450-520 MHz
	Type 2		400-470 MHz
	Type 3		350-400 MHz
Number of Channels		32	
Number of Zones		2	
Max. Channels per Zone		16	
Channel Spacing			
Analog		25*/12.5 kHz	
Digital		12.5 kHz/6.25 kHz	
Power Supply		7.5V DC ± 20%	
Battery Life		(5-5-90 during hi-power battery saver: OFF/ON)	
KNB-45L (2000mAh)		10 / 12 hours	
Operating Temperature		-22° F ~ +140° F (-30° C ~ +60° C)	
Frequency Stability		± 2.0 ppm	± 1.0 ppm
Antenna Impedance		50 Ω	
Dimensions		(W x H x D) Projections Not Included	
Radio with KNB-45L		2.13 x 4.8 x 1.39 in (54 x 122 x 35.3 mm)	
Weight Radio Only		5.8 oz (165 g)	
Radio with KNB-45L		9.9 oz (281 g)	
FCC ID	Type 1	ALH443700	ALH443800
	Type 2		ALH443801

Receiver	NX-240	NX-340
Sensitivity		
Digital @ 6.25 kHz (3% BER)	0.25 µV	
Digital @ 12.5 kHz (3% BER)	0.25 µV	
Analog (12dB SINAD)	0.25 µV	
Selectivity		
Analog @ 12.5kHz	60 dB	
Analog @ 25*kHz	70 dB	
Intermodulation Distortion	70 dB	
Spurious Responce	70 dB	
Audio Distortion	Less than 10%	
Audio Output Power	1 W / 12 Ω (Internal Output) 500mW / 8 Ω (External Output)	

Transmitter	NX-240	NX-340
RF Power Output (High / Low)	5 W / 1 W	
Spurious Responce	70 dB	
FM Hum & Noise		
Analog @ 12.5kHz	40 dB	
Analog @ 25*kHz	45 dB	
Audio Distortion	Less than 10%	
Emission Designator	16K0F3E, 11K0F3E, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K30F1E, 8K30F1D, 8K30F7W	

*Ver. 2.0 models are compatible with Analog 25 kHz and 30 kHz as well as Digital 12.5 kHz Channel Spacing. However, Analog 25 kHz and 30 kHz are not included in the models sold in the USA or US territories.
Analog measurements made per TIA603. Specifications are measured according to applicable standards.
Specifications are subject change without notice, due to advancements in technology.

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 must be secure.

JVCKENWOOD USA Corporation
Communications Sector Headquarters
1440 Corporate Drive | Irving, TX 75038

Order Administration/Distribution
P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745
www.kenwood.com/usa

JVCKENWOOD Canada Inc.
Canadian Headquarters and Distribution
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8
www.kenwood.com/ca

KENWOOD Communications Global Website
comms.kenwood.com

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Communications Systems Business Unit
JVCKENWOOD Corporation

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