

## NEXEDGE®

# NX-410/411

### NEXEDGE® 800/900 MHz Digital & Analog Portable Radio

### NXDN® FleetSync®



#### GENERAL FEATURES

- 3.0 W (806-870 MHz) Model
- 2.5 W (896-941 MHz) Model
- CSA Approval for 2 W Power Output
- 512 CH-GID / 128 Zones
- 12-Key Keypad
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 6 Front PF & Menu Keys
- 2 Side PF Keys
- Emergency/AUX Key
- 500 mW Speaker Audio
- KMC-47GPS Speaker Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input<sup>1</sup>
- Transparent Data Mode<sup>1</sup>
- VGS-1 Voice Guide/Voice & GPS Data Storage Option

#### DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging<sup>1</sup>
- Remote Stun/Kill<sup>1</sup>
- Remote Check<sup>1</sup>
- Short & Long Data Messages<sup>1</sup>
- GPS Location with Voice<sup>1</sup>
- NXDN® Scrambler Included
- DES Encryption Module Option
- AES & DES Encryption Module Option
- AES/DES Software Key Loader Option

#### DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

#### DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Transmission Trunked Mode<sup>2</sup>
- Message Trunked Mode<sup>2</sup>
- Call Queuing with Priority<sup>2</sup>
- Late Entry (UID & GID)<sup>2</sup>
- 4 Priority Monitor ID's<sup>2</sup>
- Remote Group Add<sup>1</sup>
- Failsoft Mode

#### MULTI-SITE IP NETWORKS COMPATIBLE

- 60,000 GIDs / UIDs
- Wide Area Group Call
- Auto Roaming Registration
- Group Registration

#### SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

#### ANALOG MODES – GENERAL

- 25\* & 12.5 kHz Channels
- NPSPEC Channels\*
- Conventional & LTR® Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT (Conventional Zones Only)
- Voice Inversion Scrambler
- Analog Scrambler Board Capability

#### FleetSync®/II

- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency, Status & Text Messages<sup>1</sup>

#### MDC-1200

- PTT ID ANI / Caller ID
- Emergency, Radio Check & Inhibit

\* 800 MHz model only.

## Options

### ■ KNB-54N

Ni-MH Battery  
(2500mAh)

### ■ KNB-33L

Li-ion Battery  
(2000mAh)

### ■ KNB-43L

Li-Polymer Battery  
(3300mAh)

### ■ KNB-49L

Primary Lithium Battery  
(4500mAh)

### ■ KNB-66LC\*

Li-Ion Battery  
(1880mAh) I.S.

### ■ KBP-6

Alkaline Battery Case



KNB-33L



KBP-6

### ■ KSC-32

Rapid Rate Charger  
for Ni-Cd/Ni-MH/Li-ion

### ■ KSC-326

Rapid Rate Six Unit Charger  
for Ni-Cd/Ni-MH/Li-ion

### ■ KVC-15

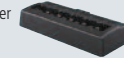
Rapid Rate Vehicular  
Charger Adapter for KSC-32

### ■ KVC-18

D.C. Vehicular Charger

### ■ KRA-38

800/900 MHz  
Whip Antenna



### ■ KMC-41M

MIL-STD & IP 54/55  
Speaker Microphone

### ■ KMC-47GPS

GPS Speaker Microphone

### ■ KEP-1\*

Heavy Duty Earphone

### ■ KHS-11BL\*

2-Wire Mini Lapel  
Mic. with Earphone

### ■ KHS-12BL\*

3-Wire Mini Lapel  
Mic. with Earphone

### ■ KHS-14\*

Lightweight Single  
Muff Headset



### ■ KHS-15-BH\*

Over-the-Head  
Heavy Duty Headset

### ■ KHS-15-OH\*

Behind-the-Head  
Heavy Duty Headset



### ■ VGS-1

Voice Guide  
& Storage Unit



### ■ KBH-11

Belt Clip (2.5")



### ■ KLH-154K2

Heavy Duty Leather  
Carrying Case



\*CSA Radio Class 1, Division 1, Groups A and B Certification.

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-410	NX-411
<b>GENERAL</b>			
<b>Frequency Range</b>	<b>Receive</b>	851-870 MHz	935-941 MHz
	<b>Transmit</b>	806-825, 851-870 MHz	896-902, 935-941 MHz
<b>Number of Channels</b>		512	
<b>Zones</b>		128	
<b>Max. Channels per Zone</b>		250	
<b>Channel Spacing</b>	<b>Analog</b>	12.5 / 25 kHz	12.5 kHz
	<b>Digital</b>	6.25 / 12.5 kHz	6.25 / 12.5 kHz
<b>Operating Voltage</b>		7.5V DC ± 20%	
<b>Battery Life (5-5-90)</b>	<b>with KNB-54N with KNB-33L</b>	More than 14 hours More than 11 hours	
<b>Battery Life (10-10-80)</b>	<b>with KNB-54N with KNB-33L</b>	More than 9 hours More than 7 hours	
<b>Operating Temperature Range</b>	CSA Approval	-22° F to +140° F (-30° C to +60° C)	
<b>Frequency Stability</b>		± 1.0 ppm	
<b>Antenna Impedance</b>		50 Ω	
<b>Dimensions (W x H x D)</b>	<b>Radio only</b>	2.28 x 5.46 x 0.88 in (58 x 138.8 x 22.4 mm)	
	<b>with KNB-54N</b>	2.28 x 5.46 x 1.60 in (58 x 138.8 x 40.7 mm)	
	<b>with KNB-33L</b>	2.28 x 5.46 x 1.35 in (58 x 138.8 x 34.2 mm)	
	Projections not included		
<b>Weight (net)</b>	<b>Radio only</b>	9.52 oz (270 g)	
	<b>with KNB-54N</b>	19.58 oz (555 g)	
	<b>with KNB-33L</b>	13.93 oz (395 g)	
<b>IC Certification</b>		282D-409000	282D-409001

CSA IS approved by CSA as intrinsically safe for use in Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations (Exception: KMC-47GPS is approved for Class I Div. 1 GP CD & N.I. Class I Div. 2 GP CD). Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company. Please contact your local dealer for details.

		NX-410	NX-411
<b>RECEIVER</b>			
<b>Sensitivity</b>	<b>Digital @ 6.25kHz (3% BER)</b>	0.20 μV	
	<b>Digital @ 12.5kHz (3% BER)</b>	0.25 μV	
	<b>Analog (12 dB SINAD)</b>	0.25 μV	
<b>Selectivity</b>	<b>Analog @ 25 kHz</b>	72 dB	-
	<b>Analog @ 12.5 kHz</b>	65 dB	65 dB
<b>Intermodulation Distortion</b>	<b>Analog</b>	70 dB (±50,100 kHz)	
<b>Spurious Response</b>	<b>Analog</b>	70 dB	
<b>Audio Distortion</b>		Less than 3%	
<b>Audio Output</b>		500 mW / 8 Ω	
<b>TRANSMITTER</b>			
<b>RF Power Output / CSA Approved RF Power Output</b>		5 W / 1 W / 2 W CSA	
<b>Spurious Response</b>		70 dB	
<b>FM Hum &amp; Noise</b>	<b>Analog @ 25 kHz</b>	45 dB	-
	<b>Analog @ 12.5 kHz</b>	40 dB	40 dB
<b>Audio Distortion</b>		Less than 3%	
<b>Modulation</b>		16K0F3E*, 14K0F3E*, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Specifications are subject to change without notice, due to advancements in technology.

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LTR® is a registered trademark of Transcript International.  
AMBE+2™ is a trademark of Digital Voice Systems Inc.  
Windows® is a registered trademark of Microsoft Corporation.  
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Footnotes from front:  
1 Requires compatible PC software application or console.  
2 These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

\* NX-410 only

## 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
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
<b>High Temperature</b>	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
<b>Low Temperature</b>	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
<b>Rain</b>	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
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
<b>Shock</b>	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
<b>International Protection Standard</b>					
<b>Dust &amp; Water Protection</b>	IP54/55				

# KENWOOD

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