

## NX-900/901

### NEXEDGE®

NEXEDGE® 800/900 MHz Digital & Analog Mobile Radio

### NXDN® FleetSync®

#### ● GENERAL FEATURES

- 15W (806-870 MHz) Model
- 15W (896-941 MHz) Model
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- 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 Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- 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>
- GPS Receiver Option
- 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

#### ● 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
- Telephone Interconnect
- 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
- NPSPAC Channels\*
- Conventional & LTR® Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT (Conventional Zones Only)
- Voice Inversion Scrambler
- Analog Scrambler Board Capability

#### ● FleetSync®/II (FM)

- 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

**KMC-35**  
Microphone



**VGS-1**  
Voice Guide  
& Storage Unit



**KAP-2**  
Horn Alert  
/ PA Relay Unit



**KCT-46**  
Ignition Sense Cable



**KMC-36**  
Microphone  
with Keypad



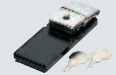
**KRK-10**  
Panel Remote Kit



**KCT-23M**  
DC Cable (10 feet)



**KMB-10**  
Key Lock Adapter



**KMC-9C**  
Control Station  
Desktop Microphone



**KPS-15**  
DC Power Supply



**KCT-23M3**  
DC Cable (23 feet)

KCT-23M3

**KLF-2**  
Line Noise Filter



## Main Specifications

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.

		NX-900	NX-901
<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>		13.6 V DC $\pm$ 15%	
<b>Operating Temperature Range</b>		-22° F to +140° F (-30° C to +60° C)	
<b>Frequency Stability</b>		$\pm$ 1.0 ppm	
<b>Antenna Impedance</b>		50 $\Omega$	
<b>Dimensions (W x H x D)</b>	Projections not included	6.30 x 1.77 x 6.18 in (160 x 45 x 157 mm)	
<b>Weight (net)</b>		3.08 lb (1.40 kg)	
<b>FCC ID</b>		K44409300	Pending**
<b>IC Certification</b>		282F-409300	Pending

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Kenwood reserves the right to change specifications without prior notice or obligation.

FleetSync® is a registered trademark of Kenwood Corporation.  
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.  
NXDN® is a registered trademark of Kenwood Corporation and Icom Inc.  
NEXEDGE® is a registered trademark of Kenwood Corporation.

		NX-900	NX-901
<b>RECEIVER</b>			
<b>Sensitivity</b>	<b>Digital @ 6.25 kHz (3% BER)</b>	0.20 $\mu$ V	0.28 $\mu$ V
	<b>Digital @ 12.5 kHz (3% BER)</b>	0.25 $\mu$ V	0.25 $\mu$ V
	<b>Analog (12 dB SINAD)</b>	0.25 $\mu$ V	0.25 $\mu$ V
<b>Selectivity</b>	<b>Analog @ 25 kHz</b>	75 dB	-
	<b>Analog @ 12.5 kHz</b>	68 dB	68 dB
<b>Intermodulation</b>	<b>Analog</b>	78 dB ( $\pm$ 50, 100 kHz)	
<b>Spurious Response</b>	<b>Analog</b>	80 dB	
<b>Audio Distortion</b>		Less than 3%	
<b>Audio Output</b>		4 W / 4 $\Omega$	
<b>TRANSMITTER</b>			
<b>RF Power Output</b>		15 W to 5 W	
<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	

footnotes from front:

<sup>1</sup> Requires NX subscriber unit PC Serial Interface compatible software application (e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).

<sup>2</sup> These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

\* NX-900 only

\*\* This device has not been authorized as required by the rules of the Federal Communications Commission. This device, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

## 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, III, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V	516.6/Procedure I, IV, V
<b>International Protection Standard</b>					
<b>Dust &amp; Water Protection</b>	IP54: Radio itself				
	IP54/55: Remote head with KRK-10				

Kenwood U.S.A. Corporation  
Communications Sector Headquarters  
3970 Johns Creek Court, Suite 100, Suwanee, GA 30024

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

Kenwood Electronics Canada Inc.  
Canadian Headquarters and Distribution  
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8  
www.kenwood.ca

  
www.kenwoodusa.com

