

#### GENERAL FEATURES

- 15W (806-870 MHz) Model
- 260 CH-GID / 128 Zones
- 10 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function/Status LCD Icons
- Transmit/Busy/Call Alert/Warn LED
- Blue Function/Status LED
- On/Off Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio
- Zone / CH Number Voice Announcement
- DB-15 Accessory Connector
- 6 Programmable AUX I/Os
- KPG-141D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP-54 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input<sup>1</sup>
- Transparent Data Mode<sup>1</sup>
- Built-in GPS Receiver Mode: NX-920G Available (Optional KRA-40G GPS active antenna required for GPS functions)

#### DIGITAL GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming<sup>2</sup>
- 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<sup>3</sup>
- Transmission Trunked Mode<sup>3</sup>
- Message Trunked Mode<sup>3</sup>
- Call Queuing with Priority<sup>3</sup>
- Late Entry (UID & GID)<sup>3</sup>
- 4 Priority Monitor ID's<sup>3</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

#### MULTI-SYSTEM COMPATIBLE

- 8 Trunked Networks<sup>4</sup>
- UID Lists for each network

#### SCAN

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

#### MPT ZONES

- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration
- 12.5/25 kHz Spacing (per network)
- Individual Private Call
- Group Call & Broadcast Call
- Inter-fleet & Inter-Prefix Calling
- PTT Initiate Call
- PSTN/PABX Call
- Priority Call
- Emergency Call
- Full Off Air Call Setup
- Network Call Queuing
- Call Prioritization
- Group Scan
- Home & Direct Address

#### FM 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 (16 Codes)

#### 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



## Options

■ **KMC-35**  
Microphone  
(Supplied)



■ **KES-32**  
16-Key Keypad  
Microphone



■ **KES-3**  
External Speaker



■ **KCT-18**  
Ignition Sense Cable  
(requires KCT-60 option)



■ **KMC-36**  
Microphone  
with Keypad



■ **KMC-53**  
Desktop Microphone)



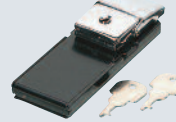
■ **KES-5**  
External Speaker  
(requires KCT-60 option)



■ **KCT-36**  
3m Extension Cable  
(for KCT-60)



■ **KMB-10**  
Key Lock Adapter



■ **KCT-60**  
DB 15-to-15 Pin  
Molex Adaptor Cable



■ **KMC-30**  
Microphone



■ **KMC-9C**  
Desktop Microphone



■ **KLF-2**  
Line Filter



■ **KRA-40G**  
GPS Antenna



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-920G
<b>GENERAL</b>		
Frequency Range	Receive	851-870MHz
	Transmit	806 - 825 / 851 - 870 MHz
Number of Channels		260
Zones		128
Max. Channels per Zone		250
Channel Spacing	Analog	12.5 / 25 kHz
	Digital	6.25 / 12.5 kHz
Operating Voltage		13.6 V DC ± 15%
Operating Temperature Range		-22° F to +140° F (-30° C to +60° C)
Frequency Stability		± 1.0 ppm
Antenna Impedance		50 Ω
Dimensions (W x H x D)	Projections not included	6.30 x 1.69 x 5.35 in (160 x 43 x 136 mm)
Weight (net)		2.87 lb (1.3 kg)
FCC ID		K44458300
IC Certification		282F-458300

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Specifications are subject to change without notice, due to advancements in technology. \*25 kHz is not for sale in the USA or US territories.

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

		NX-920G
<b>RECEIVER</b>		
Sensitivity	Digital @ 6.25 kHz (3% BER)	0.20 µV
	Digital @ 12.5 kHz (3% BER)	0.28 µV
	Analog (12 dB SINAD)	0.25 µV
Selectivity	Analog @ 25 kHz	75 dB
	Analog @ 12.5 kHz	65 dB
Intermodulation	Analog	70 dB (±50,100 kHz)
Spurious Response	Analog	75 dB
Audio Distortion		Less than 3%
Audio Output		4 W / 4 Ω
<b>TRANSMITTER</b>		
RF Power Output		5 - 15 W
Spurious Response		70 dB
FM Hum & Noise	Analog @ 25 kHz	45 dB
	Analog @ 12.5 kHz	40 dB
Audio Distortion		Less than 3%
Modulation		16K0F3E, 14K0F3E, 11K0F3E, 8K30F1E 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D
	<b>GPS**</b>	
	TIFF (Time to First Fix) - Cold Start	< 60 seconds
	TIFF (Time to First Fix) - Hot Start	< 10 seconds
	Horizontal Accuracy	< 10 meters

\*\* Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal - 130 dBm signal strength)

Footnotes from front:

<sup>1</sup> Require NX subscriber unit PC Serial Interface compatible software application

(e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).

<sup>2</sup> Requires Kenwood OTAP Management software.

<sup>3</sup> These trunked features are primarily system programming and operational dependent.

Priority Monitor also requires NX subscriber settings.

<sup>4</sup> Up to 8 different Trunked networks can be configured per radio (each in a zone)

## 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
<b>International Protection Standard</b>					
Dust & Water Protection	IP54: Radio itself				

To meet MIL-810 and IP grade, Microphone & Cover for D-sub15 & SP connector have to be connected. (Do not use the KCT cable and/or SP cable.)

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