KENWOOD

NEXEDGE®

NX-900/901

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[1]
- Transparent Data Mode[1]
- 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

DIGITAL - GENERAL Cont.

- Status Messaging[1]
- Remote Stun/Kill[1]
- Remote Check[1]
- Short & Long Data Messages[1]
- GPS Location with Voice[1]
- 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
- Telephone Interconnect
- Transmission Trunked Mode[2]
- Message Trunked Mode[2]
- Call Queuing with Priority[2]
- Late Entry (UID & GID)[2]
- 4 Priority Monitor ID's[2]
- Remote Group Add[1]
- 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

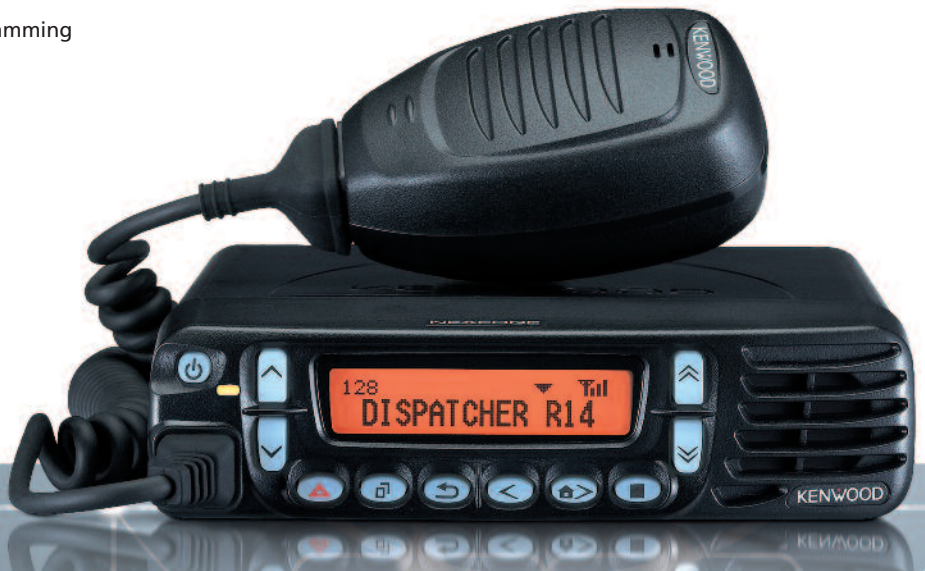
FleetSync®/II (FM)

- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency, Status & Text Messages[1]

MDC-1200

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

** 800 MHz model only.*



http://nexedge.kenwood.com

Options

- **KMC-35** Microphone
- **KMC-36** Microphone with Keypad
- **KMC-9C** Control Station Desktop Microphone
- **KES-5** External Speaker
- **VGS-1** Voice Guide & Storage Unit
- **KRK-10** Panel Remote Kit
- **KPS-15** DC Power Supply
- **KAP-2** Horn Alert / PA Relay Unit
- **KCT-23M** DC Cable (10 feet)
- **KCT-23M3** DC Cable (23 feet)


KCT-23M3

- **KCT-46** Ignition Sense Cable
- **KMB-10** Key Lock Adapter
- **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
GENERAL			
Frequency Range	**Receive**	851-870 MHz	935-941 MHz
	Transmit	806-825, 851-870 MHz	896-902, 935-941 MHz
Number of Channels		512	
Zones		128	
Max. Channels per Zone		250	
Channel Spacing	**Analog**	12.5 / 25 kHz	12.5 kHz
	Digital	6.25 / 12.5 kHz	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 1.77 x 6.18 in (160 x 45 x 157 mm)	
Weight (net)		3.08 lb (1.40 kg)	
FCC ID		K44409300	K44409301
IC Certification		282F-409300	282F-409301

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

		NX-900	NX-901
RECEIVER			
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	68 dB	68 dB
Intermodulation	**Analog**	78 dB (±50,100 kHz)	
Spurious Response	**Analog**	80 dB	
Audio Distortion		Less than 3%	
Audio Output		4 W / 4 Ω	
TRANSMITTER			
RF Power Output		15 W to 5 W	
Spurious Response		70 dB	
FM Hum & Noise	**Analog @ 25 kHz**	45 dB	-
	Analog @ 12.5 kHz	40 dB	40 dB
Audio Distortion		Less than 3%	
Modulation		16K0F3E*, 14K0F3E*, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

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-900 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
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, 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
International Protection Standard					
Dust & Water Protection	IP54: Radio itself				
	IP54/55: Remote head with KRK-10				

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