

FM MODES – GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode/Decode
- Companded Audio
- Voice Inversion Scrambler
- Encryption/ANI Board Control*

FM CONVENTIONAL ZONES

- QT / DQT
- Two-Tone Decode
- Single/Two-Tone Encode
- Call Key 1-5
- Operator Selectable Tone

FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages
- Power On/Off Status Messages
- Input/Output Status Messages
- Send/Display GPS
- PTT ID & Emergency GPS Reporting
- Status Message Block GPS Reporting
- Ignition On/Off GPS Reporting
- VGS-1 GPS Data Storage
- PC Serial Interface

GENERAL FEATURES

- 30 W (136-174 MHz) Model
- 30 W (450-520 MHz) Model
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- RSSI Indicator
- 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
- Emergency Call Features
- Special Alert Tone Patterns
- Time Out Timer
- Busy Channel Lockout
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- Ignition Sense
- Public Address / Horn Alert Option
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- Front Panel Test & Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Easy Option Port

- GPS Receiver Option
- VGS-1 Voice Guide/Storage Option*

DIGITAL – GENERAL

- NXDN™ Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Paging Call
- Emergency Call
- NXDN™ Scrambler
- Status Messaging*
- Remote Stun/Kill*
- Short & Long Data Messages*
- GPS Location with Voice*

DIGITAL CONVENTIONAL MODE

- 63 Radio Access Numbers (RAN)
- Mixed FM/Digital Operation

DIGITAL TRUNKING MODE

- Priority Monitor ID 1 & 2
- Late Entry
- Broadcast Call
- Remote Group Add*
- Multi-Site IP Network Compatible*

SCAN TYPES (FM & NXDN™ CONVENTIONAL)

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

* Some features/options are available in future releases.



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



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-700	NX-800
GENERAL		
Frequency Range	136-174 MHz	450-520 MHz
Number of Channels	512	
Zones	128	
Max. Channels per Zone	250	
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz
Operating Voltage	10.8 - 15.7 V DC	
Operating Temperature Range	-22° F to +140° F (-30° C to +60° C)	
Frequency Stability	± 2.0 ppm	
Antenna Impedance	50 Ω	
Dimensions (W x H x D) Projections not incl.	160 x 45 x 157 mm	
Weight (net)	1.38 kg	

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+2TM is a trademark of Digital Voice Systems Inc.
Windows® is a registered trademark of Microsoft Corporation.
NXDNTM is a trademark of Kenwood Corporation and Icom Inc.
NEXEDGE™ is a trademark of Kenwood Corporation.

	NX-700	NX-800
RECEIVER		
Sensitivity	Digital @ 6.25 kHz (3% BER) Digital @ 12.5 kHz (3% BER) Analog (12 dB SINAD)	0.20 µV 0.28 µV 0.25 µV
Selectivity	Analog @ 25 kHz Analog @ 12.5 kHz	80 dB 70 dB
Intermodulation	Analog	75 dB (±50, 100 kHz)
Spurious Response	Analog	90 dB
Audio Distortion	Less than 3%	
Audio Output	4 W / 4 Ω	
TRANSMITTER		
RF Power Output	30 W to 1 W	30 W to 1 W 25 W to 1 W (490-520 MHz)
Spurious Response	73 dB	75 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz	50 dB 45 dB
Audio Distortion	Less than 3%	
Modulation	16K0F3E, 14K4F1D, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/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
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/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
International Protection Standard				
Dust & Water Protection	IP54: Radio itself IP54/55: Remote head with KRK-10			

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