



● FEATURE HIGHLIGHTS

- **Multi-Digital** operation in NXDN, DMR and P25 (Phases 1 & 2) protocols
- **Any combination of two digital protocols** can be selected from NXDN, DMR, and P25
- **Mixed Digital & FM Analog Operation** allows intelligent migration in mixed sites and easy migration with digital radios in other sites
- **Large, Color 2.55" (154 x 422 pixels) TFT Display** for at-a-glance operational status checking
- **Easy to follow GUI** and **Multi-line Text** to convey more information
- **Dual Remote Control Head** and **Multi-Band (Multi RF Deck) Control** Option providing scalable configurations for various operations and applications
- **Built-In GPS Receiver with Optional GPS Active Antenna (KRA-40G)** for effective fleet management
- **Bluetooth® Module built-in** for hands-free operation
- Renowned KENWOOD Audio Quality can be achieved with **Active Noise Reduction (ANR)** that utilizes built-in DSP for suppression of ambient noise
- Built-in **56-bit DES Encryption**
- Optional **256-bit AES Encryption**
- **microSD/microSDHC Memory Card Slot** for increased memory capacity for "Voice & Data"
- **IP54/55** and **MIL-STD-810 C/D/E/F/G**

● GENERAL FEATURES

- 25 W to 5 W (136-174 MHz) Model
- 25 W to 5 W (400-470 MHz) Model
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- DB-25 Accessory Connector
- AMBE+2™ Enhanced Vocoder
- 4 W Speaker Audio

● DIGITAL – NXDN MODE

- Gen2 & NXDN Type-C Trunked Operation
- NXDN Conventional Operation
- 6.25 & 12.5 kHz Channel Spacing
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun/Kill
- Remote Check
- Short & Long Data Messages
- NXDN Digital Scrambler Included

● DIGITAL – DMR MODE

- Complies with ETSI DMR Tier II standards
- Two-slot TDMA in 12.5kHz channels
- Call Interruption
- Dual-slot Direct Mode
- Energy Efficient

● DIGITAL – P25 MODE

- P25 Phase 1 Conventional/Trunked Operation
- P25 Phase 2 Trunked Operation
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- P25 Over-the-Air Re-keying
- P25 Over-the-Air Programming

● ANALOG – FM MODE

- Conventional & LTR Zones
- FleetSync®/II: PTT ID ANI / Caller ID Display, Selective / Group Call, Emergency Status / Text Messages
- MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit
- QT / DQT & 5-Tone
- Built-in Voice Inversion Scrambler

● MULTIPLE CONFIGURATIONS

The NX-5000 mobile series allows users to create a variety of configurations to suit different requirements by combining different options. Some of the standard configurations are:

- Single Remote Control Head x Single RF Deck
- Dual Remote Control Heads x Single RF Deck
- Dual Remote Control Heads x Multi RF Decks
- Other combinations are available. Consult your local KENWOOD dealer for more.



OPTIONAL ACCESSORIES

• **KCH-19**
BASIC CONTROL HEAD KIT



• **KCH-20R**
FEATURED CONTROL HEAD



• **KRK-15B**
CONTROL HEAD REMOTE KIT
(Adapter for the RF Deck)



• **KRK-14H**
CONTROL HEAD INTERFACE KIT
(Adapter for the Head)



• **KCT-71**
REMOTE CONTROL CABLE
(Available in 3 lengths of 5.2 m, 7.6 m, and 0.5 m)



• **KWD-AE31**
SECURE CRYPTOGRAPHIC MODULE



• **KMC-35**
MICROPHONE



• **KMC-36**
KEYPAD MICROPHONE



• **KCT-73MIC**
EXTERNAL MIC KIT
(Cable length: 3 m)



• **KCT-74PTT**
EXTERNAL PTT KIT
(Cable length: 3 m)



• **KES-3**
EXTERNAL SPEAKER
(Compact low profile; ϕ 3.5 mm plug)



• **KES-5**
EXTERNAL SPEAKER
(40 W max input, Requires KAP-2)



• **KCT-23**
DC POWER CABLE
M: 3m / M3: 7m



• **KCT-46**
IGNITION SENSE CABLE



• **KLF-2**
LINE FILTER



• **KMB-10**
KEY LOCK ADAPTER



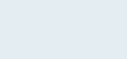
• **KAP-2**
HORN ALERT/P.A. RELAY UNIT



• **KRA-40G**
GPS ACTIVE ANTENNA



• **KPG-180AP**
OTAP MANAGER



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.

SPECIFICATIONS

| GENERAL | Mobile Radios | |
|-------------------------|--|--|
| | NX-5700 | NX-5800 |
| Frequency Range | 136-174 MHz | 400-470 MHz |
| Max. Channels Per Radio | 1024 (Up to 4000 channels with option) | |
| Number of Zones | 128 | |
| Max. Channels Per Zone | 512 | |
| Channel Spacing | Analog | 12.5/20/25 kHz |
| | Digital | 6.25/12.5 kHz |
| Power Supply | 13.2 V DC (10.8 - 15.6 V DC) | |
| Current Drain | Standby | 0.45 A |
| | RX | 2.3 A |
| | TX | 9 A |
| Operating Temperature | -30 °C to +60 °C | |
| Frequency Stability | ±1.0 ppm | |
| Dimensions (W x H x D) | 171 x 48 x 176 mm | |
| Radio with Control Head | 1.6 kg | |
| Applicable Standards | ETSI (EMC) | EN 301 489-3, EN 301 489-5, EN 301 489-17 |
| | ETSI (Spectrum) | EN 300 086, EN 300 113, EN 300 219, EN 300 328, EN 300 440, EN 301 166 |
| | ETSI Safety | EN 60065, EN 60215, EN 60950-1 |

Specifications are measured according to applicable standards, and subject to change without notice, due to advancements in technology.

| RECEIVER | Mobile Radios | |
|--|---|---|
| | NX-5700 | NX-5800 |
| Sensitivity (Digital) | NXDN 3 % BER (6.25 kHz/12.5 kHz) | 0.25 μ V / 0.32 μ V |
| | NXDN 1 % BER (6.25 kHz/12.5 kHz) | -4 dB μ V (0.32 μ V) / -1 dB μ V (0.45 μ V) |
| | DMR 5 % BER | 0.3 μ V (-117.5 dBm) |
| | DMR 1 % BER | 0.45 μ V (-114 dBm) |
| | P25 5 % BER | 0.28 μ V |
| Sensitivity (Analog) | 12 dB SINAD (12.5/20&25 kHz) | 0.32 μ V / 0.28 μ V |
| | 20 dB SINAD (12.5/20&25 kHz) | -1 dB μ V (0.45 μ V) / -3 dB μ V (0.35 μ V) |
| Selectivity | Analog 12.5 kHz | 70 dB |
| | Analog 20 kHz | 78 dB |
| | Analog 25 kHz | 80 dB |
| Intermodulation (Analog) | 70 dB | |
| Spurious Rejection (Analog) | 80 dB | |
| Audio Distortion | 2 % | |
| Audio Output Power | 4 W/4 Ω (Remote Control Head: 3 W/4 Ω) | |
| TRANSMITTER | NX-5700 | NX-5800 |
| RF Power Output Power | 25 to 5 W | |
| Spurious Emission | -36 dBm \leq 1 GHz, -30 dBm > 1 GHz | |
| FM Hum & Noise (Analog): @25/20/12.5 kHz | 50/50/45 dB | |
| Audio Distortion | 2 % | |
| Emission Designator | 16K0F3E, 14K0F2D, 14K0F3E, 12K0F2D, 11K0F3E, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 8K10F1E, 8K10F1D, 8K10F1W, 7K60FXE, 7K60FXD, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D | |

APPLICABLE MIL-STD & IP

| MIL Standard | 810C Methods/ Procedures | 810D Methods/ Procedures | 810E Methods/ Procedures | 810F Methods/ Procedures | 810G Methods/ Procedures |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Low Pressure | 500.1/I | 500.2/I, II | 500.3/I, II | 500.4/I, II | 500.5/I, II |
| High Temperature | 501.1/I, II | 501.2/I, II | 501.3/I, II | 501.4/I, II | 501.5/I, II |
| Low Temperature | 502.1/I | 502.2/I, II | 502.3/I, II | 502.4/I, II | 502.5/I, II |
| Temperature Shock | 503.1/I | 503.2/I | 503.3/I | 503.4/I, II | 503.5/I |
| Solar Radiation | 505.1/I | 505.2/I | 505.3/I | 505.4/I | 505.5/I |
| Rain | 506.1/I, II | 506.2/I, II | 506.3/I, II | 506.4/I, III | 506.5/I, III |
| Humidity | 507.1/I, II | 507.2/II, III | 507.3/II, III | 507.4 | 507.5/II |
| Salt Fog | 509.1/I | 509.2/I | 509.3/I | 509.4 | 509.5 |
| Dust | 510.1/I | 510.2/I | 510.3/I | 510.4/I, III | 510.5/I |
| Vibration | 514.2/VIII, X | 514.3/I | 514.4/I | 514.5/I | 514.6/I |
| Shock | 516.2/I, II, V | 516.3/I, IV, V | 516.4/I, IV, V | 516.5/I, IV, V | 516.6/I, IV, V |
| International Protection Standard | | | | | |
| Dust & Water | IP54, IP55*1 | | | | |

*1: IP54: RF Deck; IP55: Remote Control Head.

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