



● MAIN FEATURES

- **MULTI-Digital** operation in P25 (Phases 1 & 2) and NXDN protocols
- **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 access more information
- **Dual Remote Control Head** Option and **Multi-Band (Multi RF Deck) Control** Option providing scalable configurations for various operations and applications
- **Built-In GPS Receiver** for effective fleet management
- **Bluetooth® Module built-in** for hands-free operation
- Renowned KENWOOD Audio Quality can be achieved with **Active Noise Cancelling** that utilizes built-in DSP with two microphones 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

- 5 W – 50 W (136-174 MHz) Models
- 5 W – 45 W (380-470, 450-520 MHz) Models
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- DB-25 Accessory Connector
- 4 W Speaker Audio

● DIGITAL – P25 MODE

- P25 Phase 1 Conventional/Trunked
- P25 Phase 2 Trunked
- AMBE+2™ Enhanced Vocoder
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- P25 GPS Location
- P25 Over-the-Air Re-keying
- P25 Over-the-Air Programming*2

● DIGITAL – NXDN MODE

- NXDN Conventional
- Gen2 & NXDN Type-C Trunked Operation
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channel Spacing
- Over-the-Air Alias
- Over-the-Air Programming*1
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun/Kill*2
- Remote Check*2
- Short Data Messages
- Long Data Messages*2
- GPS Location
- NXDN Digital Scrambler Included

*1 Requires KENWOOD OTAP Management software.

*2 Requires NX subscriber unit PC serial interface compatible software application (e.g. KENWOOD AVL & Dispatch Messaging software) or hardware (e.g. console).

● DIGITAL - DMR MODE

- DMR-5 Trunking
- DMR Tier III Trunking
- DMR Tier II conventional, DMR Auto Slot Select & Site Roaming
- 12.5 kHz Two-slot TDMA channels
- Call Interruption
- Dual-slot Direct Mode
- Enhanced Encryption
- Energy Efficient

● ANALOGUE - 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 & Two-Tone
- Built-in Voice Inversion Scrambler

MULTIPLE CONFIGURATIONS (OPTION)

The NX-5700/5800 allows users to create a variety of configurations to suit different requirements by combining different options.

- **Single Remote Control Head x Single RF Deck:** The simplest configuration can be achieved by turning the front control panel of the NX-5700/5800 into a Remote Control Head.
- **Dual Remote Control Heads x Single RF Deck:** By combining an optional Remote Head (KCH-19 or KCH-20R) to a radio, one controller can be mounted on the dashboard, with the other at the rear.
- **Dual Remote Control Heads x Multi RF Decks:** By having two radios (e.g. NX-5700 and NX-5800), user can enjoy the convenience of controlling 2 radios from 2 controllers. Of course, a panel can be replaced with optional Remote Control Head (KCH-20R).
- Other combinations are available. Consult your local KENWOOD dealer for more.



OPTIONAL ACCESSORIES

■ NX-5700B/5800B

RF DECK

■ 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; φ3.5 mm plug)



■ KES-5

EXTERNAL SPEAKER
(40 W max input, Requires KAP-2)



■ KCT-23

DC POWER CABLE
M: 3m / M3: 7m



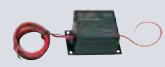
■ KCT-46

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

SPECIFICATIONS

| GENERAL | Mobile Radios | |
|---|--|--|
| | NX-5700 | NX-5800 |
| Frequency Range | 136-174 MHz | Type 1: 450-520 MHz Type 2: 380-470 MHz |
| Max. Channels Per Radio | 1024 (Up to 4000 channels with option) | |
| Number of Zones | 128 | |
| Max. Channels Per Zone | 512 | |
| Channel Spacing | Analogue | 12.5/15/20/25*/30* kHz |
| | Digital | 6.25/12.5 kHz |
| Power Supply | 13.6 V DC ±15% | |
| Current Drain | Standby | 0.45A |
| | RX | 2.3A |
| | TX | 13A |
| Operating Temperature | -22°F to +140°F (-30°C to +60°C) | |
| Frequency Stability (-30°C to +60°C; +25°C Ref.) | ±0.5 ppm | |
| Dimensions (W x H x D) | 6.69 x 1.89 x 6.93 in. (170 x 48 x 176 mm) | |
| Radio with Control Head, Projections Not Included | | |
| Weight: Radio with Control Head | 3.53 lbs (1.6 kg) | |

*25 and 30 kHz are not included in the models sold in the USA or US territories. Analogue measurements made per TIA 603 and specifications shown are typical. Digital measurements made per TIA 102CAAA and specifications shown are typical.

Details and timing of firmware and software updates are subject to change without notice. Specifications are subject to change without notice, due to advancements in technology.

| RECEIVER | Mobile Radios | |
|-----------------------|--|-----------|
| | NX-5700 | NX-5800 |
| Sensitivity | NXDN 6.25 kHz Digital (3% BER) | 0.20 µV |
| | NXDN 12.5 kHz Digital (3% BER) | 0.25 µV |
| | P25 Digital (5% BER) | 0.25 µV |
| | P25 Digital (1% BER) | 0.40 µV |
| | Analogue (12dB SINAD) | 0.25 µV |
| Selectivity | P25 Digital | 63 dB |
| | Analogue @ 12.5 kHz | 71 dB |
| | Analogue @ 25 kHz | 81 dB |
| Intermodulation | | 80 dB |
| Spurious Rejection | 87 dB | 85 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 | 50 to 5 W | 45 to 5 W |
| Spurious Emission | -73 dB | -75 dB |
| FM Hum & Noise | Analogue @ 12.5 kHz | 45 dB |
| | Analogue @ 25 kHz | 50 dB |
| Audio Distortion | 2% | |
| Emission Designator | 16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 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 | 500.3/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 |
| Temp. 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*1 | 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*2 | | | | |

*1: Blowing rain protection for the mobile radio's Remote Control Head only. *2: IP54: RF Deck of the mobile radio; IP55: Remote Control Head for the mobile radio

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