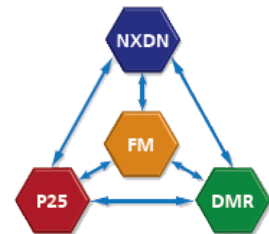# KENWOOD
NX-5700/5800/5900

MULTIRADIO S.A.

VHF/UHF DIGITAL TRANSCEIVER

NEXEDGE® VHF/UHF 700-800MHz DIGITAL TRANSCEIVER
P25 (I&II) / NXDN® /DMR MULTI_DIGITAL & FM ANALOG
MOBILE RADIOS

NX-5700/5800/5900

Zoom

ONE RADIO, MULTI-PROTOCOL SUPPORT.

The NX-5000 Series offers unsurpassed interoperability for a wide variety of users as it supports three digital CAIs — NXDN, DMR and P25 (Phase 1 & 2) — plus FM analog in a single radio. Best of all, a desired CAI can be selected at will, giving you the freedom to migrate at your own pace — whether you are intent on going fully digital, undecided about which digital system to pick, or just wanting to maintain both digital and analog for a while. An NX-5000 radio can simultaneously support two digital protocols plus analog, offering the following combinations: FM/DMR/ NXDN, FM/NXDN/P25, and FM/DMR/P25.
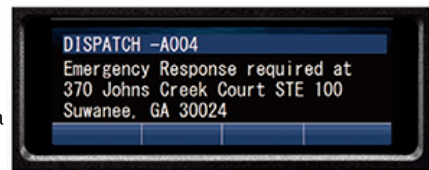
NXDN: A desired CAI can be selected at will – whether you are intent on going fully digital, undecided about which digital system to pick, or just wanting to maintain both digital and analog for a while.
The NXDN air interface can fit into the very narrow 6.25 kHz bandwidth using FDMA technology. Ensuring spectrum efficiency, wide coverage and virtually unlimited scalability, it provides for nationwide expansion: Type-C Trunking Gen2 offers enhanced features, flexibility and performance, linking up to 1,000 sites or 24 networks.

DMR: For simple conventional communications, making use of existing infrastructure, DMR is an excellent, cost-effective solution. Being energy-efficient, it offers longer battery life. And thanks to 2-slot TDMA, it is possible to obtain 2 talk paths within an analog 12.5 kHz bandwidth, thus doubling the capacity. The NX-5000 Series supports Tier II conventional mode.

P25: This digital CAI ensures interoperability among public safety agencies in North America, Australia and New Zealand. The NX-5000 Series is compatible with Phase 1 (conventional and trunked), and Phase 2 (trunked).

INTUITIVE DISPLAY & OPERABILITY:MOBILES

Full-color display and more

Integrated luminance sensor on a 2.55-inch (154 x 422 pixel) 65,536-color TFT display automatically adjusts the brightness of the backlight. On the screen, text data is shown in multi-line, as much as 5 lines.

DISPATCH -A004
Emergency Response required at
370 Johns Creek Court STE 100
Suwanee, GA 30024

NX-5700(B)/5800(B) (actual size)

Detachable front panel

The front panel can be removed and used as a remote controller. Also the Featured Panel* and RF Deck can be purchased separately to create Multiple Configurations.
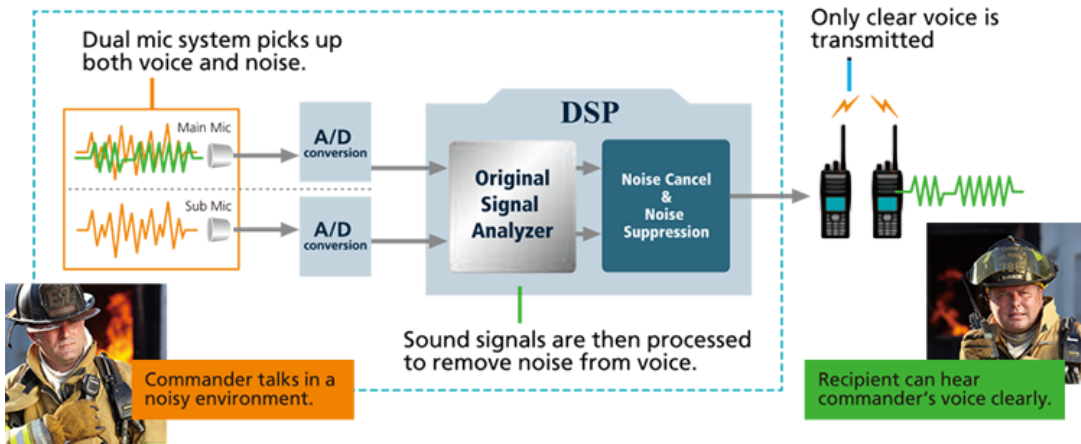*Available in March 2015

Basic Model

Detached front panel used as a remote controller.

RENOWNED KENWOOD AUDIO

Clear Communications Even in Noisy Environments.

In addition to sophisticated sound analysis and optimization technologies, these radios feature Active Noise Cancelling based on leading-edge digital technology to offer clear communications even in very noisy environments.

Dual mic system picks up both voice and noise.

Main Mic → A/D conversion

Sub Mic → A/D conversion

DSP — Original Signal Analyzer → Noise Cancel & Noise Suppression

Only clear voice is transmitted

Sound signals are then processed to remove noise from voice.

Commander talks in a noisy environment.

Recipient can hear commander's voice clearly.

TOUGH & ROBUST

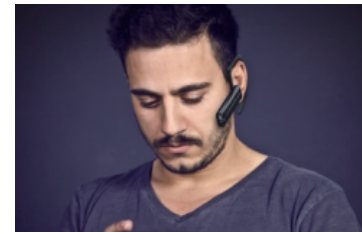## MIL-STD Environmental and Ingress Protection Standards

During the development stage, NX-5000 Series radios go through a number of stringent tests as shown below. As a result, the portable radios complying with IP67/68 immersion standards offer max. 2-hour protection at a depth of 1 meter*, while the mobile radios comply with IP54/55 dust/water ingress protection standards.
*Applies for IP68

FEATURE PACKED

BUILT-IN BLUETOOTH®

Hands-free operation is vital for many NX-5000 users. The radios' built-in Bluetooth® module is compatible with Headset and Serial Port Profiles (ver. 3.0) and keeps your hands free.

GPS TO TRANSMIT YOUR POSITION

Featuring an integrated GPS module and antenna, NX-5000 portable radios can transmit positional data, enabling effective management when used with tracking applications like KAS-10 software. Mobile models can support GPS with the optional KRA-40G.

SD CARD SLOT

For storing voice and data, memory capacity can be increased up to a huge 32GB on a microSD card.*

* Purchase a card separately

ENCRYPTION EQUIPPED

Secure communications are an essential requirement, especially for public safety applications.
NX-5000 radios are equipped with 56-bit key Data Encryption Standard (DES) encryption. For even higher protection the radios can support 256-bit Advanced Encryption Standard (AES) encryption with optional module.

SENSORS FOR USER SAFETY

Man-down Detection, Stationary Detection, or Motion Detection will be automatically engaged when the embedded acceleration and tilt sensors detect unusual behavior. Lone Worker function automatically places the radio in Emergency Mode if it is not operated for a certain period of time.

The bright orange Emergency Button is located at the top (portables) or front (mobiles) of the radio for high visibility and instant access when needed.

Portable

Mobile

MULTIPLE CONFIGURATIONS

Create a variety of configurations to suit diverse requirements

The NX-5700(B)/5800(B) mobile radios allow users to create a variety of configurations to suit diverse requirements by combining different options.

1. Single Remote Control Head x Single RF Deck
The detachable front control panel of the NX-5700/5800 is used as a Remote Control Head. Suited for distribution and courier services.

3. Dual Remote Control Heads x Single RF Deck*
One controller can be mounted on the dashboard, with the other at the rear. Useful for EMS applications.

2. Single Remote Control Head x Multi RF Decks*
Operate multiple radios as if they were one by adding an RF Deck. Recommended for law enforcement agencies.

4. Dual Remote Control Heads x Multi RF Decks*
This adds the convenience of a dual control head to the multi RF decks (3 max.) configuration. Best suited for battalion chiefs.

*Available later

OTHER FEATURES

- Multi-Digital + FM Analog Operation
  - ・Gen2 & NXDN® Conventional/Type-C Trunking Protocol
  - ・DMR Tier II Conventional
  - ・P25 Conventional/Trunking (Phase 1/Phase 2)
- FM Analog Conventional & LTR Zones
- Color 2.55" (154 x 422 pixel) TFT Display
- Color GUI and Multi-line Text Display
- 4 W/4 Ω; 3 W/4 Ω for the Remote Control Head
- 6 Front PF keys & 4 Up / Down Selectors
- Emergency Button

- MDC–1200
- FleetSync$^{®}$/II
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones