



Intrinsically safe: Univ. Model Class I, II, III, Division 1, Groups C, D, E, F, G
Non-incendive use in Class I, Division 2, Groups A, B

This versatile handheld radio supports both NXDN and DMR digital protocols as well as mixed digital & FM analogue operation, enabling it to serve with distinction in a wide range of enterprise- and operation-critical applications. Compact yet designed with durability in mind, it's packed with convenient features like Bluetooth® for hands-free operation and built-in GPS. Three different models with 14-pin Universal connector are available: Full Keypad model with LCD, Standard Keypad model with LCD and a large 4-way D-pad, and the Basic Model without LCD or keypad. Additionally, for expansion capability a software license certification system facilitates extensive customisation.

PRODUCT HIGHLIGHTS

- **Multi-protocol digital** radio: Designed to operate under an NXDN or DMR digital, and FM analogue protocols
- **NXDN** Conventional and Type-C & Gen2 Trunking
- **DMR** Tier II, DMR Auto Slot Select & Site Roaming, DMR T3 Trunking
- **Mixed Digital & FM Analogue Operation** allows gradual migration at your own pace
- **4-Line** Basic Frame (2-Line Main/Sub-LCD, icon & key guide) / 14 Characters
- **5-Line** Text Message Frame (3 Lines of Text, icon & key guide)*
- **7-Colour Light Bar Indicator** on the top panel
- **4-way Directional-pad (D-pad)** for intuitive control and operation
- **Built-in GPS Receiver/Antenna** for effective fleet management
- **Built-in Bluetooth** for hands-free operation – Applicable Bluetooth profiles: HSP (Headset Profile provided), Heart Rate Service, Automatic Injury Detection Service (full and standard models) and SPP (Serial Port Profile available as an option)
- Renowned **KENWOOD Audio Quality** with **Active Noise Reduction (ANR)** that utilizes built-in DSP
- Optional **DES** and **AES** Encryption Software for **NXDN** Conventional/Trunking and **DMR** Conventional/Trunking protocols
- **Built-in Motion Sensor** (Man-down, Stationary and Motion Detection)
- **IP54/55/67** and **MIL-STD-810 C/D/E/F/G**
- 14-pin Universal Connector offers reliable connectivity even in harsh environment with a wide-range of accessories.

GENERAL FEATURES

- 1 Watt Audio Output Power
- UHF: 120 MHz capability
- Available models: Full Keypad (w/ LCD and full keypad), Standard Keypad (w/ LCD and 4-way large D-pad/4 key), and Basic (w/o LCD and keypad)
- 512 CH/128 Zones (64 CH/4 Zones for Basic model)
- 1,000 CH with option
- Intrinsically Safe Option
- Paging Call
- Emergency Call
- Status/Text Message
- Remote Stun/Kill/Check

DIGITAL - NXDN MODE

- NXDN Type-C & Gen2 Trunked
- NXDN Conventional
- 6.25 & 12.5 kHz Channels
- All Group Call
- Over-the-Air Alias (OAA)
- Over-the-Air Programming (OTAP)

DIGITAL - DMR MODE

- Complies with ETSI DMR Tier II and DMR Tier III standards
- 12.5 kHz Two-slot TDMA channels
- Call Interruption
- Site Roaming
- Dual-slot Direct Mode, Auto Slot Select
- Enhanced Encryption (ARC-4)
- Energy Efficient
- Over-the-Air Programming (OTAP)

ANALOGUE - FM MODE

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



Full Keypad Model



Standard Keypad Model



Basic Model

*The number of lines may vary depending on the display language (character set).

OPTIONAL ACCESSORIES

- **KNB-79L**
Li-ion BATTERY PACK
(7.4 V/2860 mAh, Intrinsically Safe)
Intrinsically safe: Univ. Model Class I,
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- **KSC-25LS/25S**
RAPID CHARGER
(Li-ion Only/Tri-Chem)



- **KRA-22/23**
VHF/UHF HELICAL
ANTENNA
(Low Profile)



- **KMC-41D**
SPEAKER
MICROPHONE
(IP54/55)



- **KSC-526**
MULTIPLE CHARGER
(6-pocket)



- **KSC-256**
MULTIPLE CHARGER
(6-pocket)



- **KRA-26**
VHF HELICAL ANTENNA
(Standard Length)



- **KRA-27**
UHF WHIP ANTENNA
(Standard Length)



- **KRA-41/42**
VHF/UHF STUBBY
ANTENNA



- **KMC-54WD**
SPEAKER
MICROPHONE
(with dual-sided
2-mic for superior
ANR, IP67)

- **KBH-11**
BELT CLIP (2.5 in)



- **KPG-180AP**
OTAP MANAGER

All accessories and options may not be available in all markets.
Contact an authorised KENWOOD dealer for details and complete list of all accessories and options.

SPECIFICATIONS

| GENERAL | | NX-3200CUK3 | NX-3300CUK3 |
|--|----------------------|---------------------------------------|---------------|
| Frequency Range | | 136-174 MHz | 400-520 MHz |
| Max. Channels per Radio | | Up to 1000 channels with option | |
| Number of Channels | | 512 (64 for no LCD models) | |
| Number of Zones | | 128 (4 for no LCD models) | |
| Channel Spacing | Analogue | 12.5/15/20/25*/30** kHz | 12.5/25** kHz |
| | Digital | 6.25/12.5 kHz | 6.25/12.5 kHz |
| Power Supply | | 7.5 V DC ±20 % | |
| Battery Life** (FDMA/TDMA) 5-5-90 | KNB-79L (2860 mAh)*5 | Approx. 15.0 hours/Approx. 21.5 hours | |
| Operating Temperature | | -30°C to +60°C | |
| Frequency Stability (-30°C to +60°C; +25°C Ref.) | | ± 0.5 ppm | |
| Dimensions (W x H x D) *Projections not included | Radio only | 56 x 119.6 x 36.4 mm*2 | |
| | With KNB-79L | 56 x 119.6 x 44.9 mm*2 | |
| Weight (net) | Radio only | 220 g*3 | |
| | With KNB-79L | 395 g*3 | |

| RECEIVER | | NX-3200CUK3 | NX-3300CUK3 |
|------------------------------------|--------------------------------|--|----------------|
| Sensitivity | NXDN 6.25 kHz Digital, 3 % BER | | 0.20 µV |
| | NXDN 12.5 kHz Digital, 3 % BER | | 0.25 µV |
| | DMR 12.5 kHz Digital, 5 % BER | | 0.30 µV |
| | DMR 12.5 kHz Digital, 1 % BER | | 0.45 µV |
| Selectivity | Analogue, 12 dB SINAD | | 0.25 µV |
| | Analogue @ 12.5 kHz | | 65 dB |
| | Analogue @ 25 kHz | | 72 dB |
| Intermodulation | | | 70 dB |
| Spurious Rejection | | | 70 dB |
| Audio Distortion | | | 3 % |
| Audio Output (Internal Speaker) | 3 % Distortion | | 500 mW/8 Ohms |
| | 5 % Distortion | | 1000 mW/8 Ohms |
| TRANSMITTER | | NX-3200CUK3 | NX-3300CUK3 |
| RF Power Output | | 5 W / 4 W / 1 W | |
| Spurious Emission | | -70 dB | |
| FM Hum & Noise | Analogue @ 25 kHz | 45 dB | |
| | Analogue @ 12.5 kHz | 40 dB | |
| Audio Distortion | | 3 % | |
| Digital Protocol | | ETSI TS 102 361-1, -2, -3 | |
| Emission Designator | | 16K0F3E**1, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 7K60FXD, 7K60FXE, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D | |

*1 25 and 30 kHz are not included in the models sold in the USA or US territories.
*2 Dimensions for Full Keypad/Std Keypad Models
*3 Weight for Full Keypad Model
*4 Typical battery life, battery save on, at medium power with GPS and Bluetooth disabled
*5 Typical value under the condition charged with KSC-25S/25LS
Specifications are measured according to applicable standards.
Specifications shown are typical and subject to change without notice, due to advancements in technology.

APPLICABLE MIL-STD & IP

| MIL Standards | Methods / Procedures | | | | |
|------------------------------------|----------------------|----------------|----------------|---------------|---------------|
| | 810C | 810D | 810E | 810F | 810G |
| 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 |
| 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 | 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 | 516.4/ I, IV | 516.5/ I, IV | 516.6/ I, IV |
| International Protection Standards | | | | | |
| Dust & Water | IP54, IP55, IP67 | | | | |

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