

NEXEDGE® NX-3200CUK3/3300CUK3

NXDN™ **DMR**

NEXEDGE VHF/UHF
MULTI-PROTOCOL DIGITAL & ANALOGUE PORTABLE RADIOS



GPS

FleetSync®

5-tone



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,
II, III, Division 1, Groups C, D, E, F, G

- **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, 7K60FXW	

*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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