SPECIFICATIONS

			Portable Radios			Mobile Radios			
GENERAL		NX-5200	NX-5300	NX-5400	NX-5700	NX-5800	NX-5900		
Frequency Range		136-174 MHz	Type 1: 450-520 MHz Type 2: 380-470 MHz	RX: 763-776, 851-870 MHz TX: 763-776, 793-806, 806-825, 851-870 MHz	136-174 MHz	Type 1: 450-520 MHz Type 2: 380-470 MHz	RX: 763-776, 851-870 MHz TX: 763-776, 793-806, 806-825, 851-870 MHz		
Max. Channels Per Radio		1024 (Up to 4000 channels with option)							
Number of Zones		128							
Max. Channels Per Zone		512							
Channel Spacing	Analog	12.5/15/20/25*/30* kHz	12.5/25* kHz	12.5/25 kHz	12.5/15/20/25/30 kHz	12.5/25 kHz	12.5/25 kHz		
	Digital	6.25/12.5 kHz	6.25/12.5 kHz	12.5 kHz (6.25 kHz)		6.25/12.5 kHz			
Power Supply			7.5 V DC ±20 %		13.6 V DC ±15 %				
Current Drain	Standby				0.45 A				
	RX	_				2.3 A			
	TX				13 A				
Battery Life KNB-L1 (2,000 mAh)		10 hours / 6.5 hours							
(5-5-90/10-10-80 duty cycle)	KNB-L2 (2,600 mAh)	12.5 hours / 8.5 hours							
	KNB-L3 (3,400 mAh)	17 hours / 11 hours			_				
	KNB-N4 (2,500 mAh)	12 hours / 8.5 hours							
	KBP-8 (w/AA x12)		Power: Approx. 11 hours / 8						
		Low I	Power: Approx. 26 hours / 18						
Operating Temperature			ı		(-30 °C to +60 °C)				
Frequency Stability		±2.0 ppm	±1.0 ppm	±1.5 ppm		±1.0 ppm	T		
Dimensions (W x H x D)	Radio w / Control Head (KCH-19)		_		6.69 x 1.89 x 6.93 in (170.0 x 48.0 x 176.0 mm) 6.73 x 1.89 x 7.72 in (171.0 x 48.0 x 196 mm)				
	KNB-L1 (2,000 mAh)	2.28 x 5.47 x 1.44 in (58.0 x 138.9 x 36.5 mm)			_				
Dimensions (W x H x D)	KNB-L2 (2,600 mAh)	2.28 x 5.47 x 1.56 in (58.0 x 138.9 x 39.5 mm)			_				
Radio w/ Battery,	KNB-L3 (3,400 mAh)	2.28 x 5.47 x 1.77 in (58.0 x 138.9 x 44.9 mm)			_				
Projections Not Included	KNB-N4 (2,500 mAh)	2.28 x 6.55 x 1.78 in (58.0 x 166.4 x 45.2 mm)			_				
KBP-8 (w/AA x12)		2.64 x 8.59 x 2.12 in (67.0 x 218.3 x 53.9 mm)							
Weight (Net)	Radio w / Control Head (KCH-19)	-			3.53 lbs (1.6 kg)				
	KNB-L1 (2,000 mAh)	13.5 oz (382 g)			_				
Weight (Net)	KNB-L2 (2,600 mAh)	14.3 oz (406 g)			_				
Radio w/ Battery	KNB-L3 (3,400 mAh)	15.8 oz (449 g)			_				
	KNB-N4 (2,500 mAh)	20.4 oz (579 g)			=				
	KBP-8 (w/AA x12)	V44474400	25.1 oz (712 g)	1111442000	V44474400		V44470F00		
FCC ID	Type 1	K44431400	K44431500	ALH442000	K44471100	K44471200	K44478500		
	Type 2		K44431501			K44471201			
IC Certification	Type 1	282F-431400		282D-442000	282F-471100		282F-478500		
DE CENTED	Type 2	— NV 5000	282F-431501			282F-471201			
RECEIVER	MANANC SELLI D. S. 1/2 0/ DED.	NX-5200	NX-5300	NX-5400	NX-5700	NX-5800	NX-5900		
Sensitivity	NXDN 6.25 kHz Digital (3 % BER) NXDN 12.5 kHz Digital (3 % BER)	0.20 µV							
	DMR Digital (5% BER)	0.25 µV							
	DMR Digital (1% BER)	0.25 µV							
	P25 Digital (5 % BER)	0.40 μV 0.25 μV							
	P25 Digital (1 % BER)	0.25 µV 0.40 µV							
	Analog (12 dB SINAD)	0.40 µV 0.25 µV							
Selectivity	Analog @ 12.5 kHz	67 dB 64 dB				dB	70 dB		
Security	Analog @ 25 kHz	73 dB		81 dB		78 dB			
ntermodulation		73 dB 75 dB			80 dB				
Spurious Rejection		80 dB 75 dB			85 dB				
Audio Distortion			3 %		2 %				
Audio Output Power		500 mW/8 Ω (3 % Distortion) / 1,000 mW /8 Ω (5 % Distortion)			4 W/4 Ω (Remote Control Head: 3 W/4 Ω)				
TRANSMITTER		NX-5200	NX-5300	NX-5400	NX-5700	NX-5800	NX-5900		
RF Power Output Power		6 to 1 W	5 to 1 W	3 to 1 W	50 to 5 W	45 to 5 W	30 to 2 W (700 MHz) 35 to 2 W (800 MHz)		
Spurious Emission			-70 dB	1	-73 dB	-75 dB	-80 dB		
FM Hum & Noise	Analog @ 12.5 kHz	40 dB				dB	40 dB		
	Analog @ 12.5 kHz	40 dB 45 dB			50 dB 45 dB				
Audio Distortion	y • 25 Kiz	+	15 05	7	%		1 42 00		
Emission Designator		16K0F3E, 14K0F3E*, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 7K60FXE, 7K60FXD, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D		16K0F3E, 14K0F3E*, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 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	500.1/1	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	503.1/1	503.2/1	503.3/1	503.4/ I, II	503.5/1					
Solar Radiation	505.1/1	505.2/1	505.3/1	505.4/1	505.5/1					
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	509.2/1	509.3/1	509.4	509.5					
Dust	510.1/1	510.2/1	510.3/1	510.4/ I, III	510.5/ I					
Vibration	514.2/ VIII, X	514.3/1	514.4/	514.5/1	514.6/ I					
Shock	516.2/ I, II, V	516.3/ I, IV, V*1	516.4/ I, IV, V*1	516.5/ I, IV, V* ¹	516.6/ I, IV, V*1					
Immersion*2	-			512.4/I	512.5/I					
International Protection St	tandard									
Dust & Water	IP54, IP55* ³	IP54, IP55* ³								
Immersion*2	IP67. IP68*4									

^{*1:} Shock (Crash Hazard) standard for 810D/E/F/G Method/Procedure V applies only for the mobile radios *2: Immersion standard applies only for the portable radios *3: IP54: RF Deck of the mobile radio; IP55: Remote Control Head for the mobile radio *4: Conditions: Portable radio immersed for 2 hours at a depth of 1 meter

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CL856K-E-12R

KENWOOD

NX-5000 Series

NEXEDGE® VHF/UHF/700-800 MHz MULTI-PROTOCOL DIGITAL & ANALOG RADIOS



An Industry First — Triple-Digital Radios for **Enterprise and Public Safety**





^{*25} and 30 kHz are not included in the models sold in the USA or US territories. **800MHz band only for NX-5400 and NX-5900.
P25 Digital measurements made per TIA 102CAAA, analog measurements made per EN Standards or TIA 603 and specifications shown are typical. Specifications are subject change without notice, due to advancements in technology.

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The NX-5000 Series – Supporting NXDN, DMR and P25 Digital Protocols plus FM Analog



Radios are a lifeline for those who work on the front lines — crews tackling a raging fire, utility engineers repairing ice-storm damage, or school guards responding to a security alert. They demand and deserve equipment that is truly fit for purpose, and then some.

To meet this demand KENWOOD has drawn on its extensive experience, its acclaimed technologies, and an expert analysis of market needs to develop NEXEDGE. This innovative digital solution satisfies the most stringent requirements of today's mission-critical radio users. And now NEXEDGE leaps further ahead of the competition with NX-5000 Series portable and mobile radios, ready to serve in all public sector, commercial and public safety roles with flawless performance and advanced feature sets.

And because these radios are compatible with three different digital protocols — NXDN, DMR and P25 — if you are planning migration from a legacy system, not only can you go on using your current radios, but you can be confident that, when you make the move, your NX-5000 radios will be deployed and ready.

What's more, if you adopt the NEXEDGE Gen2 Multi-Site Digital Trunked Network System, you can enjoy all the benefits of the NX-5000 Series over an extensive network linking all of your sites.

The NX-5000 Series truly sets a new standard.

From nationwide enterprises looking to create large-scale digital trunked networks with NXDN to staff staying in touch via DMR and first responders maintaining vital contact with P25 – the NX-5000 Series can serve everyone, including those still using analog radios.

The Enterprise Network Solution with cutting-edge digital technologies for scalable operation-critical communications

Providing all the benefits of advanced digital technology such as increased effective coverage area and low noise for superior clarity, NXDN has become established throughout the world, serving customers ranging from business & industrial to mission-critical. And now NEXEDGE 2nd Generation (Gen2) delivers a quantum leap in network scale and capability – supporting networks with as many as 1,000 sites or 24 networks for wide area roaming and calling.

NXDN NXDN

DMR

An efficient, economical solution for dynamic businesses looking to upgrade their communications

DMR radios provide smooth communications and coordination between staff members in a wide variety of commercial environments, including retail, hospitality and manufacturing. Compatibility with the DMR AIS IP Console Interface facilitates radio dispatch operations, while Call Interruption and the Lone Worker function are ideal for security guards. Digital DMR Data Services and Remote Monitoring are among many additional benefits.

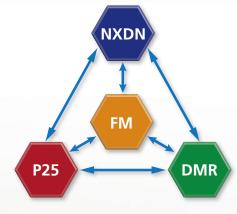
The established mission-critical protocol for first responders, with proven reliability and interoperability

Round-the-clock public safety operations – involving the police and fire departments as well as EMS – can be extremely demanding for both personnel and equipment. That is why P25 radios are ruggedly robust and able to offer clear mission-critical communications in hot, dusty, noisy environments – even with sirens in the background. Additionally, features like Man-down Detection contribute to enhanced safety in the line of duty.

NX-5000 SERIES FEATURES

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: 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).



AUTOMATIC CALL SIGNAL IDENTIFICATION

An NX-5000 Series radio automatically identifies a call signal – whether it's NXDN, DMR, P25, or FM analog – and transmits in the same mode received. Setting your radio to Mixed Mode allows the radio to wait for a call in both digital and analog modes in a digital/analog environment. Moreover, the new Geographical Zone function allows these radios to operate in any mode – conventional or trunked – in the same zone

INTUITIVE DISPLAY & OPERABILITY



The 65,000-color TFT display allows the user to check at a glance on operating status, shown in multi-line text to convey more information.

The portables feature a 1.74-inch (240 x 180 pixel) LCD that can be viewed clearly in direct sunlight or in the dark, even while wearing polarized sunglasses.

The mobile models feature a 2.55-inch (154 x 422 pixel) TFT display with integrated luminance sensor that automatically adjusts the brightness of the backlight. What's more, the optional remote control panel (KCH-20R) features a 2.75-inch (240 x 400 pixel) TFT display with Auto LCD Brightness mode to adjust display intensity for round-theclock operation.

Further enhancing operating ease is the 4-way Directional-pad (D-pad) and 2-position lever switch, which offer intuitive control and can be operated with gloves on.



NX-5200/5300/5400 (actual size)

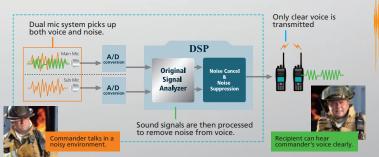


NX-5700/5800/5900 (actual size)

RENOWNED KENWOOD AUDIO



Benefitting from decades of KENWOOD experience and expertise, the NX-5000 Series offers superb audio quality even in very noisy environments. In addition to sophisticated sound analysis and optimization technologies, these radios feature Active Noise Reduction based on leading-edge digital technology. Clear communications are assured





TOUGH & ROBUST









During the development stage, NX-5000 Series radios go through a number of stringent tests to make sure they can withstand harsh usage. In addition to MIL-STD-810 C/D/E/F/G environmental standards, NX-5000 portable radios comply with IP67/68 immersion standards, offering max. 2 hour protection at a depth of 1 meter* The rugged mobile radios comply with IP54/55** dust/water ingress protection standards.

** IP54: RF Deck of the mobile radio; IP55: Remote Control Head for the mobile radio

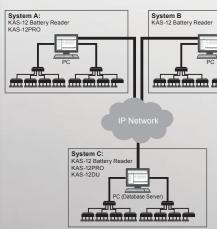


INTELLIGENT BATTERY MANAGEMENT SYSTEM (Portables: option)

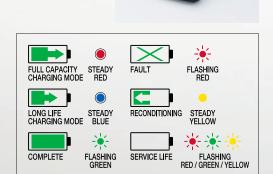
The Intelligent Battery System helps to extend battery lifetime and ensure that the batteries are optimally maintained so as to be ready for mission-critical operations. The system comprises the optional high-capacity Li-ion and Ni-MH Batteries (KNB-L1/L2/L3/N4), Intelligent Charger (KSC-Y32), and Battery Reader software (KAS-12 or KAS-12PRO, an upgrade option). Up to 60 Rapid Chargers can be chain-connected to a PC installed with the KAS-12 Battery Reader software, which can display and manage information: battery type, model name, voltage, temperature, discharge cycle, expected life, and remaining capacity.

Additionally, with KAS-12PRO (software upgrade license), data can be stored for up to 5,000 batteries for centralized management of their initial date of use, elapsed days, discharge cycle, remaining capacity and deterioration (end-of-life).

- Long Life Charging Mode: stops recharging at 80 % capacity to extend life.
- Up to 5,000 batteries can be managed at a time (requires KAS-12PRO).
- Deterioration (end-of-life) notification (requires KAS-12PRO).



Create Battery Reader Management System over IP networking by installing KAS-12DU Battery Reader Database Utility on a server and authenticating the KAS-12PRO Software Upgrade License for the system. Monitoring is enabled only on a system with KAS-12PRO authentication

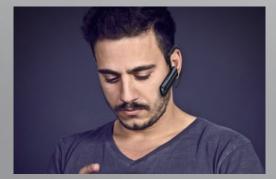


Battery conditions are displayed in color illuminated indicators on the charger, which are also displayed on a connected PC with the same color scheme. Colorcoordinated patterns provide users with at-a-glance information for comprehensive battery management

GPS TO TRANSMIT YOUR POSITION 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 open for other important tasks you are into.



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 GPS Active Antenna.

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 there is the optional KWD-AE31 Secure Cryptographic Module, which supports the 256-bit Advanced Encryption Standard (AES) Encryption.

MULTIPLE CONFIGURATION (Mobiles)

The NX-5000 mobile series allows users to create a variety of configurations to suit diverse requirements by combining different options.

1. Single Remote Control Head x Single RF Deck

Suited for distribution and courier services, this is the simplest configuration. The detachable front control panel of the NX-5000 mobile series is used as a Remote Control Head.

2. Single Remote Control Head x Multi RF Decks

You can operate multiple radios (e.g. VHF and UHF) as if they were one by adding an NX-5000 mobile series RF Deck. This configuration is recommended for law enforcement agencies.

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.

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. Two operators can control 3 radios (e.g. VHF, UHF and 700-800 MHz) from separate control heads. Best suited for battalion chiefs.









SD CARD SLOT

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

* Purchase a card separately.



SENSORS FOR USER SAFETY

Life-critical detection is built-in. When unusual behavior is detected by the acceleration and tilt sensors, one of three Emergency Modes – Man-down Detection, Stationary Detection, and Motion Detection – will be automatically engaged.

In addition to the built-in motion sensor, these portables feature a Lone Worker function that automatically places the radio in Emergency Mode if it is not operated for a certain period of

time. Also 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.



NX-5200/5300/5400

NEXEDGE VHF/UHF/700-800MHz MULTI-PROTOCOL DIGITAL & ANALOG PORTABLE RADIOS

NX-5700/5800/5900

■ Gen2 & NXDN Conventional/Type-C Trunking Protocol

• Speaker Audio: 4 W/4 Ω ; 3 W/4 Ω for the Remote Control Head

• FleetSync®/II, MDC-1200, QT/DQT, 2-Tone (Analog mode)

■ P25 Conventional/Trunking (Phase 1/Phase 2)

• Large, Color 2.55" (154 x 422 pixel) TFT Display

Easy-to-follow GUI and Multi-line Text Display

NEXEDGE VHF/UHF/700-800MHz MULTI-PROTOCOL DIGITAL & ANALOG MOBILE RADIOS

GENERAL FEATURES

- Multi-Digital + FM Analog Operation
- Gen2 & NXDN Conventional/ Type-C Trunking Protocol
- DMR Tier II Conventional
- P25 Conventional Trunking (Phase 1/Phase 2) Protocol
- ■FM Analog Conventional & LTR
- Large, Color 1.74" (240 x 180 pixel) Transflective TFT Display
- Easy-to-follow GUI and Multi-line **Text Display**
- 1,000 mW Speaker Audio (@8 Ω, 5 % distortion)
- 4-way Directional-pad (D-pad) and 2-Position Lever Switch for intuitive control and operation
- 6 Front & 2 Side PF keys

- 12-Key Keypad Models Available
- Emergency / AUX Key
- FleetSync®/II, MDC-1200, QT/DQT, 2-Tone (Analog mode)
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- Frequency Range
- ■VHF: 136-174 MHz (NX-5200)
- •UHF: 450-520 MHz, 380-470 MHz, (NX-5300)
- ■700-800 MHz: RX: 763-776, 851-870 MHz TX: 763-776, 793-806, 806-825, 851-870 MHz (NX-5400)
- RF Output
- ■VHF: 6-1 W (NX-5200)
- ■UHF: 5-1 W (NX-5300)
- ■700-800MHz: 3-1 W (NX-5400)

RF DECK







■ KCT-71



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





■ KPG-180AP OTAP MANAGER (PC Software)

■ KMC-35 MICROPHONE

■ KMC-36 KEYPAD MICROPHONE

■ KES-3 EXTERNAL SPEAKER (Compact low profile; φ3.5 mm plug)

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

Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones

- Frequency Range
- ■VHF: 136-174 MHz (NX-5700/5700B)
- •UHF: 450-520 MHz, 380-470 MHz (NX-5800/5800B)
- ■700-800 MHz:

RX: 763-776, 851-870 MHz

TX: 763-776, 793-806, 806-825, 851-870 MHz (NX-5900/5900B)

RF Output

- ■VHF: 50-5 W (NX-5700/5700B)
- •UHF: 45-5 W (NX-5800/5800B)
- ■700 MHz: 30-2 W (NX-5900/5900B)
- ■800 MHz: 35-2 W (NX-5900/5900B)

OPTIONAL ACCESSORIES

■ NX-5700B/5800B/5900B

Emergency Button

GENERAL FEATURES

■ DMR Tier II Conventional

Multi-Digital + FM Analog Operation

■ FM Analog Conventional & LTR Zones

• 6 Front PF keys & 4 Up / Down Selectors

■ KCH-19 BASIC CONTROL HEAD KIT



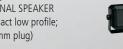






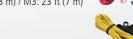
REMOTE CONTROL CABLE (Available in 3 lengths of 5.2 m, 7.6 m, 0.5 m)







■ KCT-23 DC POWER CABLE M: 10 ft (3 m) / M3: 23 ft (7 m)

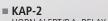


















DC POWER SUPPLY (23 A max)







Combination of DC Power Supply KPS-16 and Desktop Microphone KMC-53 for the mobile radio. Suitable for applications such as taxi dispatching system, etc.



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

OPTIONAL ACCESSORIES ■ KNB-L1/L2/L3

Li-ion BATTERY PACK (IP67/68 immersion)



KNB-L2 7.4 V/2600 mAh

■ KNB-N4 Ni-MH BATTERY PACK (7.2V/2500 mAh)

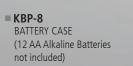




KNB-L3 7.4 V/3400 mAh



■ KSC-326/326S MULTIPLE CHARGER (6-unit Rapid Rate)



■ KAS-12/12PRO

KWD-AE30/AE31 SECURE CRYPTOGRAPHIC MODULE



OTAP MANAGER (PC Software)











■ KRA-41 VHF STUBBY ANTENNA



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



■ KMC-54WD SPEAKER MICROPHONE

• IP65/67 Dust & Water*



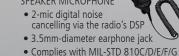
Intrinsically Safe Batteries are also available Contact your local KENWOOD dealer for details















KENWOOD

Till (111) H /L \$ ≯ 12:34∆ 4923 ⊞

Interop Zone 1 Dispatch CH 1

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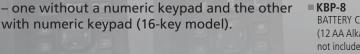
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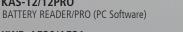
with numeric keypad (16-key model).



KENWOOD

Yal (110) H .r. \$ × 12:34£





■ KPG-180AP

(Low Profile) UHF HELICAL ANTENNA











