KENWOOD

GENERAL CATALOG

Professional Two-way Radios

Land Mobile Radios

Everyday Radios

Amateur Radios

Our Commitment

Offering our customers optimum solutions for wireless communications with exceptional reliability and solid support, we are firmly committed to:

- **A Step Ahead** – To drive dynamic evolution through progressive thinking and a willingness to embrace change;
- **The Right Fit** – To create products and services that have an intuitive appeal because they fit customer needs and lifestyles;
- **Fresh Experience** – To foster the spirit of discovery at work and refreshing surprise in daily life;
- **Quality & Performance** – To insist on uncompromising quality and performance in our products, our people and our business practices; and
- **Confidence & Trust** – To build confidence in the brand and lasting goodwill through relationships based on trust.

The Brand

Originally established in Japan in 1946, the KENWOOD brand has long been associated with world-class wireless communication systems. It is recognized by customers and industry professionals as a brand built on innovative thinking, close attention to customer input, progressive engineering, and precision manufacturing.

In addition to KENWOOD, the JVCKENWOOD Group manages a growing portfolio of related brands, such as EF Johnson and Radio Activity, as well as working closely with strategic partners.

Solutions

Technology never stands still. Nevertheless, upgrading a radio system from analog to digital can represent a significant investment for the customer. Fortunately, KENWOOD products offer a smooth migration path to digital radios – some with multi-protocol support (NXDN+DMR, NXDN+P25, and DMR+P25) – while still making use of your existing analog units. DMR is an efficient and cost-effective digital two-way radio solution for operation-critical businesses, while P25 ensures interoperability among public safety agencies in the US and elsewhere. Moreover, if you want to create a large digital trunked network, the highly scalable NEXEDGE Generation 2 (Gen2) has the features, capabilities, and performance to satisfy all your needs.

Quality, Reliability and the Environment

KENWOOD products are manufactured at our own factories in Japan, Malaysia and China, where every effort is made to ensure superlative quality and reliability.

Multiple tests are implemented to verify that KENWOOD products meet or exceed rigorous testing standards for resistance to extreme temperatures, water, dust, vibration, and impact. They are also tested for compliance with the IEC's IP standards for protection against dust and water ingress. And for use in potentially explosive atmospheres, ATEX/IECEx-certified IS radios are fully compliant with international requirements. In addition, as well as observing RoHS and REACH restrictions on harmful substances, we adhere to an even stricter set of in-house rules to ensure yet greater protection for the environment.

LAND MOBILE RADIOS

Multi-Protocol Digital LMR Models

The cutting edge in digital communications – KENWOOD multi-protocol Land Mobile Radios offer flexible system scalability that allow users to choose two from three Digital CAIs of P25, DMR and NXDN, plus FM analog in a single radio.

NX-5200/5300/5400
VHF/UHF/700-800 MHz DIGITAL TRANSCEIVER

NXDN™ **DMR** **P25**

Gen2 | NXDN C TYPE | DMR-based TRUNKING T3&S | DMR Auto Slot Select

Bluetooth® | microSDHC | GPS | FleetSync® by KENWOOD | 5-tone

- Multi-Protocol operation in P25, DMR, NXDN (Type-C, Gen2) Digital CAIs, and FM Analog

  P25 - P25 Phase 1 Conventional and Trunking
  - P25 Phase 2 Trunking

  DMR - S-Trunking
  - DMR Tier III Trunking
  - DMR Tier II Conventional
  - DMR Auto Slot Select

  NXDN - NEXEDGE Generation 2 (Gen2)
  - NXDN Type-C Trunking
  - NXDN Conventional

Common
- Large, Color 1.74" (240 x 180 pixels) Transflective TFT Display
- Mixed Digital & FM Analog Operation
- Active Noise Reduction (ANR)
- MIL-STD-810 & IP 67/68*1
- Built-in GPS Receiver/Antenna
- Built-in Bluetooth® Module
- Built-in 56-bit DES Encryption
- Optional 256-bit AES Encryption
- Intelligent Battery Management System
- Intrinsically Safe Option
- microSD/microSDHC Memory Card Slot (Up to 2 GB/ 32 GB)

*1 All interfaces must be fully sealed with appropriate covers or by designated genuine accessories. IPX8 conditions: Up to 2 hours of protection when immersed at a depth of 1 meter.

Full Keypad model   Limited Keypad model

IP67/68 INTERNATIONAL STANDARD	US MIL-STD 810C/D/E/F/G	P25 [Phase 1 & 2]	NXDN [Conventional]	NXDN [Type-C Trunking]	Gen2	DMR [S-Trunking]	DMR [Tier II]	DMR [Tier III]	2-tone	5-tone	MDC-1200	LTR
		4000 ch	Mixed Mode	GPS	Color LCD	Motion Sensor	Active Noise Reduction	OTAP	Voice Announcement	DES [56-bit]	AES [256-bit]	

NX-5700/5800/5900

VHF/UHF/700-800 MHz DIGITAL TRANSCEIVER

NXDN™ DMR P25

Gen2 NXDN C TYPE DMR-based TRUNKING T3&S DMR Auto Slot Select

Bluetooth® microSDHC GPS FleetSync by KENWOOD 5-tone

- Multi-Protocol operation in P25, DMR, NXDN (Type-C, Gen2) Digital CAIs, and FM Analog

  P25 — P25 Phase 1 Conventional and Trunking
  — P25 Phase 2 Trunking

  DMR — S-Trunking
  — DMR Tier III Trunking
  — DMR Tier II Conventional
  — DMR Auto Slot Select

  NXDN — NEXEDGE Generation 2 (Gen2)
  — NXDN Type-C Trunking
  — NXDN Conventional

Common
- Large, Color 2.55" (154 x 422 pixels) Transflective TFT Display
- Multiple Configurations - Dual Head x Multi RF Decks
- Dash & Control Panel Remote Mount
- Mixed Digital & FM Analog Operation
- Active Noise Reduction (ANR)
- MIL-STD-810 & IP 54/55*1
- Built-in GPS Receiver
- Built-in Bluetooth® Module
- Built-in 56-bit DES Encryption
- Optional 256-bit AES Encryption
- microSD/microSDHC Memory Card Slot (Up to 2 GB/ 32 GB)

*1 All interfaces must be fully sealed with appropriate covers or by designated genuine accessories. IP54: RF Deck of the mobile radio; IP55: Remote Control Head for the mobile radio

IP54/55	MIL-STD	P25 [Phase 1 & 2]	NXDN [Conventional]	NXDN [Type-C Trunking]	Gen2	DMR [S-Trunking]	DMR [Tier II]	DMR [Tier III]	2-tone	5-tone	MDC-1200	LTR
		4000 ch	Mixed Mode	GPS	Color LCD	Active Noise Reduction	OTAP	Dual Remote Head	Multiple RF Decks	Voice Announcement	DES [56-bit]	AES [256-bit]

Scalability

CONVENTIONAL	CONVENTIONAL IP NETWORK	P25 PHASE I TRUNKING		P25 PHASE II TRUNKING
		NXDN Type-D TRUNKING	NXDN Type-C TRUNKING	NXDN [Gen2] NEXEDGE Generation 2
		DMR AUTO SLOT SELECT	S-TRUNKING	DMR TIER III TRUNKING
(NO TRUNKING)	(NO TRUNKING)	DECENTRALIZED CONTROL TRUNKING	CENTRALIZED CONTROL TRUNKING	CENTRALIZED CONTROL TRUNKING SEVER BASED ARCHITECTURE
SINGLE SITE	UP TO 16 SITES (Unicast) UP TO 48 SITES (Multicast)	SINGLE SITE	UP TO 15 SITES / UP TO 48 SITES	EXTENSIVE
COST & CAPACITY BASELINE	COST EFFECTIVE COVERAGE	COST EFFECTIVE CAPACITY	CAPACITY AND COVERAGE	CAPACITY, COVERAGE AND CONTROL

NX-3220/3320/3420
NX-3200/3300/3400
VHF/UHF/800-900 MHz DIGITAL TRANSCEIVER

NXDN™ **DMR**

Gen2 | NXDN C TYPE | DMR-based TRUNKING T3&S | DMR Auto Slot Select

Bluetooth® | GPS | FleetSync® | 5-tone

Basic model

Standard Keypad model

Full Keypad model

• Multi-Protocol operation: Select a digital protocol from DMR or NXDN CAIs, and FM Analog

DMR - S-Trunking
- DMR Tier III Trunking
- DMR Tier II Conventional
- DMR Auto Slot Select

NXDN - NEXEDGE Generation 2 (Gen2)
- NXDN Type-C Trunking
- NXDN Conventional

Common
• Site Roaming
• Mixed Digital & FM Analog Operation
• 4-line Basic Frames
• 5-line Text Message Frame
• Active Noise Reduction (ANR)
• MIL-STD-810 & IP 54/55/67*[1]
• Built-in GPS Receiver/Antenna
• Built-in Bluetooth® Module
• Software DES and AES Encryptions
• Built-in Motion Sensor
• Digital Bit Scrambler
• Both 14-pin Universal Connector and 2-pin Connector Models available
• Intrinsically Safe Option

*1 All interfaces must be fully sealed with appropriate covers or by designated genuine accessories.

IP54/55/67 | MIL-STD

NXDN [Conventional]	NXDN [Type-C Trunking]	Gen2	DMR [S-Trunking]	DMR [Tier II]	DMR [Tier III]	2-tone	5-tone	MDC-1200	LTR
260 ch (w/ LCD), 64 ch (w/o LCD)	Mixed Mode	GPS Connectivity	OTAP	Voice Announcement	Motion Sensor	1 W Loud Audio	Software DES	Software AES	

NX-3720HG/3820HG/3920G
VHF/UHF/800 MHz DIGITAL TRANSCEIVER

NXDN™ **DMR**

Gen2 | NXDN C TYPE | DMR-based TRUNKING T3&S | DMR Auto Slot Select

Bluetooth® | GPS | FleetSync® | 5-tone

• Multi-Protocol operation: Select a digital protocol from DMR or NXDN CAIs, and FM Analog

DMR - S-Trunking
- DMR Tier III Trunking
- DMR Tier II Conventional
- DMR Auto Slot Select

NXDN - NEXEDGE Generation 2 (Gen2)
- NXDN Type-C Trunking
- NXDN Conventional

*1 All interfaces must be fully sealed with appropriate covers or by designated genuine accessories. IP54 is featured on the RF Deck of the mobile radio; IP55 is featured on the Remote Control Head for the mobile radio

Common
• Site Roaming
• Mixed Digital & FM Analog Operation
• Single Remote Head Operation with Optional Control Head Interface Kit
• 4-line Basic Frames
• 4-line Text Message Frame
• Active Noise Reduction (ANR)
• MIL-STD-810 & IP 54/55*[1]
• Built-in GPS Receiver
• Built-in Bluetooth® Module
• Software DES and AES Encryptions
• Digital Bit Scrambler

IP54/55 | MIL-STD

NXDN [Conventional]	NXDN [Type-C Trunking]	Gen2	DMR [S-Trunking]	DMR [Tier II]	DMR [Tier III]	2-tone	5-tone	MDC-1200	LTR
512 ch	Mixed Mode	GPS	Active Noise Reduction	OTAP	Single Remote Head	Voice Announcement	Software DES	Software AES	

NX-1200[N/D/A], 1300[N/D/A]

VHF/UHF DIGITAL TRANSCEIVER

[Suffix on the model no. stands for CAI: N=NXDN, D=DMR, and A=Analog Only Versions]

- Multi-Protocol operation: Suffix on the model number stands for NXDN (N), DMR (D), and FM Analog (A) CAIs, which is selected by the user at the time of purchase

Common
- Site Roaming (only for N and D suffixes)
- Mixed Digital & FM Analog Operation
- High-contrast, White Backlit LCD for Full and Standard Keypad Models
- Large 7-color LED Indicator on the Top Panel
- Wide-band UHF 70 MHz Coverage
- Renowned KENWOOD Audio Quality with 1W Output
- MIL-STD-810 & IP 54/55/67*[1,2]
- Intrinsically Safe Option

*1 All interfaces must be fully sealed with appropriate covers or by designated genuine accessories.

*2 IP67 is only applicable when the NX-1000N/D/A (for M and X regions) radio is attached with the KNB-84L battery.

For other regions, availability may vary depending on the models handled by each region.

Basic model

Full Keypad model

Standard Keypad model

IP54/55/67	MIL-STD	NXDN [Conventional]	NXDN [Type D Trunking*3]	DMR	2-tone	5-tone
		MDC-1200	260 ch [64 ch for Basic models]	GPS Connectivity	Voice Announcement	1 W Loud Audio
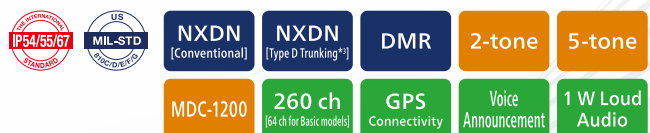
*3 Featured only on the [K/E] types.

NX-1200N/1300N NXDN™ NXDN D TYPE

VHF/UHF DIGITAL TRANSCEIVER – NXDN CAI

- FDMA Very Narrow 6.25 kHz & Narrow 12.5 kHz bandwidths
- NXDN Conventional Operation
- NXDN Type-D Trunking ([K/E] types)
- Group Call, Individual Call
- Status / Short Data Message
- Paging Call

- Remote Control: Stun/Revive, Kill, Monitor (software option)
- Digital / Analog Mixed Mode
- Late Entry
- Site Roaming
- Over the Air Alias (OAA)
- Bit Scrambler

NX-1200D/1300D DMR DMR Auto Slot Select

VHF/UHF DIGITAL TRANSCEIVER – DMR CAI

- TDMA 2 slot 12.5 kHz bandwidth equivalent to 6.25 kHz very narrow bandwidth
- DMR Tier II Conventional Operation
- Group Call, Individual Call
- Status / Short Data Message
- Paging Call
- Remote Control: Stun/Revive, Kill, Monitor (software option)

- Digital / Analog Mixed Mode
- Late Entry
- Site Roaming
- DMR Auto Slot Select
- Call Interruption
- Over the Air Alias (OAA)
- Bit Scrambler
- Enhanced Encryption (software option)

NX-1200A/1300A FleetSync®

VHF/UHF DIGITAL TRANSCEIVER – FM Analog CAI

- FM Conventional Operation
- QT/DQT, DTMF, 2 tone, 5 tone
- FleetSync: PTT ID, Stun/Revive, Talk Back, Selcall
- MDC 1200: PTT ID, Radio Inhibit/ Uninhibit, Radio Check, Emergency

- Built in Programmable Voice Inversion Scrambler
- Built in Compander (per Channel)
- Voting (Except K type)

LAND MOBILE RADIOS
NXDN Digital Models

NEXEDGE ®

Conventional or Trunking – advanced digital radios with seamless analog compatibility and superior scalability

NXR-5700/5800/5900
VHF/UHF/800 MHz DIGITAL BASE-REPEATER

NXDN ™ Gen2 · NXDN C TYPE

- NEXEDGE Generation 2 (Gen2)
- NXDN Type-C Trunking
- NXDN Conventional
- Site Roaming
- Mixed Digital & FM Analog Operation
- Built-in 0.5 ppm TCXO

- Conventional IP Networks
- FER (Frame Error Rate)/RSSI Output
- External FM Analog Trunking Controller Interface (LTR/MPT1327)
- Telephone Interconnect

US MIL-STD 810C/D/E/F/G	NXDN [Conventional]	NXDN [Type-C Trunking]	Gen2	30 ch	Mixed Mode	ESN Validation	Repeater Monitor	Telephone Interconnect

NXR-710/810
VHF/UHF DIGITAL BASE-REPEATER

NXDN ™ · NXDN D TYPE

- NXDN Conventional
- NXDN Type-D Trunking
- Mixed Digital & FM Analog Operation
- Conventional IP Networks
- External FM Analog Trunking Controller Interface (LTR/MPT1327)

- Built-in Scrambler
- Remote Termination Interface
- Site Roaming

US MIL-STD 810C/D/E/F/G	NXDN [Conventional]	NXDN [Type-D Trunking]	30 ch	Mixed Mode	ESN Validation	Repeater Monitor

TKR-D710/D810
VHF/UHF DIGITAL REPEATER

DMR

- DMR Tier II Conventional
- Mixed Digital & FM Analog Operation
- Conventional IP Network[*1]

- DMR AIS IP Console Interface[*1, 2]

*1 Requires Interface Box KTI-5 installed with the IP Network Software.

*2 AIS stands for Application Interface Standard, which is a voice/data communications protocol set by the DMR Association.

US MIL-STD 810C/D/E/F/G	DMR [Tier II]	30 ch	Mixed Mode	Call Interruption	Repeater Monitor

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KTI-5
INTERFACE BOX

DMR IP Networking Systems

DMR: Conventional IP Network

IP Network

IP

TKR-Dx10srs   KTI-5
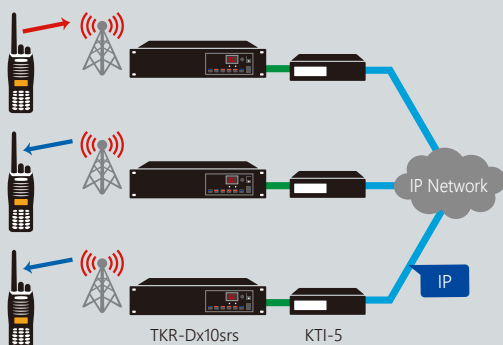
DMR: Conventional IP Network with AIS IP Console Interface

IP Network

IP / AIS

IP

AIS-compliant Dispatch Console

TKR-Dx10srs   KTI-5
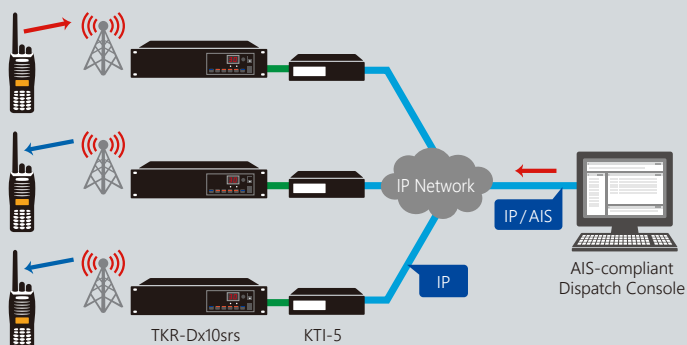
LAND MOBILE RADIOS

FM Analog Models

Offering convenience & compatibility to smooth your migration to digital communications

TK-2000/3000

VHF/UHF FM TRANSCEIVER

- Simple, Slim and Lightweight
- Robust and Water Resistant
- Scan Functions
- QT/DQT/DTMF (Enc.)
- VOX Ready

IP54 | MIL-STD 810C/D/E/F/G | 16 ch

PKT-23A

UHF FM TRANSCEIVER

- Pocket Size
- 1.5 W RF Output
- 2 PF Keys
- MIL-STD 810 with 11 Items, and IP54
- QT/DQT
- Voice Announcement
- Scan Functions
- VOX Ready
- USB Charge (Micro USB)
- 3-level Battery Indicator
- Battery Saver

IP54 | MIL-STD 810C/D/E/F/G | 16 ch | USB Charge | Pocket Size

TK-7360H/7360/8360H/8360

VHF/UHF FM TRANSCEIVER

- Wide Band Coverage (70 MHz in UHF)
- 10-digit LCD
- FleetSync PTT ID, SelCall and Emergency
- MDC-1200 Signalling
- External D-Sub 15-pin Interface
- Optional Scrambler Board available for a more secure scrambling
- Transmit accurate vehicle location data by installing a GPS module
- 4-color LED
- Lone Worker Function
- Built-in Voice Inversion Scrambler

FleetSync | IP54 | MIL-STD 810C/D/E/F/G | 2-tone | 5-tone | MDC-1200 | 128 ch | GPS Connectivity | Voice Announcement

TK-7302H/7302/8302H/8302

VHF/UHF FM TRANSCEIVER

- Wide Band Coverage (70 MHz in UHF)
- 2-digit LED Channel Display
- FleetSync PTT ID, SelCall and Emergency
- MDC-1200 Signalling
- External D-Sub 15-pin Interface
- Optional Scrambler Board available for a more secure scrambling

- Transmit accurate vehicle location data by installing a GPS module
- 4-color LED
- Lone Worker Function
- Built-in Voice Inversion Scrambler

FleetSync® | IP54 | MIL-STD 810C/D/E/F/G | 2-tone | MDC-1200 | 16 ch | GPS Connectivity | Voice Announcement

EVERYDAY RADIOS
All-in-one Package Models

If you are looking for a simple, easy-to-use radio for your business or leisure, the Everyday Radios from KENWOOD may be the right choice. Unlike conventional LMRs, these radios are all-in-one package, meaning that they do not require any complicated setup. What's more, these radios require no contract or call charges to pay.

PKT-23

UHF FM TRANSCEIVER

- Pocket Size
- All-in-One Package
- 0.5 W RF Output
- 2 PF Keys
- MIL-STD 810 with 11 Items, and IP54
- QT/DQT
- Voice Announcement
- VOX Ready
- USB Charge (Micro USB)
- 3-level Battery Indicator
- Battery Saver

IP54 | MIL-STD 810C/D/E/F/G | PMR-446 | 8 ch | USB Charge | Pocket Size

INTRINSICALLY SAFE RADIOS

Explosion Protected Models

Expertly engineered to be used with confidence in potentially dangerous environments

NX-230EX/330EX + KNB-70LEX/77LEX

VHF/UHF TRANSCEIVER

ATEX & IECEx CERTIFIED
- ATEX Directive
  - Gas :II 2G Ex ib IIC T4 Gb
  - Dust :II 2D Ex ib IIIC T110° Db
  - Mining :I M2 Ex ib I Mb
  - IP65/67
- IECEx Scheme
  - Gas :Ex ib IIC T4 Gb
  - Dust :Ex ib IIIC T110° Db
  - Mining :Ex ib I Mb
  - IP65/67

NX-5200/5300/5400 + KNB-LS5

VHF/UHF/700-800 MHz DIGITAL TRANSCEIVER

- CSA us
  - Intrinsically safe: Class I, II, III, Division 1, Groups D, E, F, G
  - Non-incendive: Class I, Division 2, Groups A, B, C
  - Temperature Code: T3C at Ta = -30°C to +60°C

Full Keypad model   Limited Keypad model

NX-3220/3320/3420 + KNB-79LC

VHF/UHF/800-900 MHz DIGITAL TRANSCEIVER

- CSA us
  - Intrinsically safe: Class I, II, III, Division 1, Groups D, E, F, G
  - Nonincendive: Class I, Division 2, Groups A, B, C
  - Temperature Code: T3C at Ta = -30°C to +60°C

Full Keypad model   Standard Keypad Model   Basic model

NX-3200/3300/3400 + KNB-79LC

VHF/UHF/800-900 MHz DIGITAL TRANSCEIVER

- CSA us
  - Intrinsically safe: Class I, II, III, Division 1, Groups C, D, E, F, G
  - Non-incendive: Class I, Division 2, Groups A, B
  - Temperature Code: T3C at Ta = -30°C to +60°C

Full Keypad model   Standard Keypad Model   Basic model

NX-1200[N/D/A], 1300[N/D/A] + KNB-82LC

VHF/UHF DIGITAL TRANSCEIVER

- CSA us
  - Intrinsically safe: Class I, Division 1, Group D
  - Non-incendive: Class I, Division 2, Groups A, B, C, D
  - Temperature Code: T3C at Ta = -30°C to +60°C

Standard Keypad Model   Basic model

AMATEUR RADIOS

Renowned among hams worldwide – Amateur radios
packed with top-notch features

TS-990S

HF/50 MHz TRANSCEIVER

- IP3: +40 dBm
- Down-conversion Receiver
- New High-IP Roofing Filters
- Quick Start-up, Stable ±0.1 ppm TCXO

TS-890S

HF/50MHz TRANSCEIVER

- BDR 150dB*
- 3rd IMDR 110dB*
- RMDR 122dB*
- Down-conversion Receiver
- New High-IP Roofing Filters
- 7-inch TFT Color Display

- Quick Start-up, Stable ±0.1 ppm TCXO
- DSP Noise Reduction
- Built-in Automatic Antenna Tuner
- Highly Reliable 100W Final-stage Amplifier Circuit

*: 2 kHz spacing measurement standard - Receiver frequency 14.2 MHz, MODE CW, BW 500 Hz, PRE AMP OFF

TS-590SG

HF/50 MHz TRANSCEIVER

- Down-conversion receiver
- 500 Hz/2.7 kHz Roofing Filter
- High-speed automatic antenna tuner
- 32-bit Floating-point DSP
- Advanced AGC control
- Adjustable IF filter passband
- IF Notch
- DSP Noise Reduction
- Morse code decoder
- Speech processor (SSB/AM/FM)

TM-D710GA

144/440 MHz FM DUAL BANDER

- Built-in high-performance GPS
- APRS firmware equipped as standard
- Large separate panel
- Built-in 1200/9600 bps TNC
- Dual receive on same band
- EchoLink® Sysop MODE & MEMORY
- Voice guidance and storage (option)
- Stand-alone digipeater
- MCP-6A Memory Control PC software
- KENWOOD Sky Command System II

TM-V71A

144/440 MHz FM DUAL BANDER

- Invertible front panel
- Separate panel kit available
- Dual receive on same band
- Selectable 2 backlight colors
- Voice guidance and storage
- 1,000 Multifunction memory
- EchoLink® Sysop MODE & MEMORY
- Multiple scan functions
- MCP-2A Memory Control PC software
- KENWOOD Sky Command System II

TH-K20A/K40A

144/430 MHz FM SINGLE BANDER

- 5.5W high RF output power (TH-K20A)
- Reliably Robust - MIL-STD810 & IP54
- 200 memory channels
- 6-digit memory name
- Bright Backlit LCD and Keypad
- Internal VOX
- Multiple scan functions
- 42 CTCSS & 104 DCS
- MCP-5A Memory Control PC software
- Supplied with Li-ion & charger
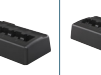
Optional Accessories

For LMR Portable Radios

Antennas / Battery Packs

	KRA-22	KRA-23	KRA-26	KRA-27	KRA-32	KRA-35	KRA-38	KRA-41	KRA-42	KNB-L1	KNB-L2
	VHF HELICAL ANTENNA (Low Profile)	UHF HELICAL ANTENNA (Low Profile)	VHF HELICAL ANTENNA (Std. Length)	UHF WHIP ANTENNA (Std. Length)	700/800 MHz WHIP ANTENNA	UHF HELICAL ANTENNA (300 MHz)	800/900 MHz WHIP ANTENNA	VHF STUBBY ANTENNA	UHF STUBBY ANTENNA	Li-ion BATTERY PACK (7.4 V/ 2000 mAh)	Li-ion BATTERY PACK (7.4 V/ 2600 mAh)
NX-5200/5300/5400	•	•	•	•	•			•	•	•	•
NX-3200/3300/3400	•	•	•	•			•	•	•		
NX-3220/3320/3420	•	•	•	•			•	•	•		
NX-1200/1300 [N/D/A]	•	•	•	•				•	•		
TK-2000/3000	•	•	•	•		•		•	•		

Battery Packs

	KNB-L3	KNB-N4	KNB-LS5	KNB-55L	KNB-56N	KNB-57L	KNB-78LC	KNB-79LC	KNB-29N	KNB-45L	KNB-69L
	Li-ion BATTERY PACK (7.4 V/ 3400 mAh)	Ni-MH BATTERY PACK (7.2 V/ 2500 mAh)	Li-ion BATTERY PACK for I.S.* (7.4 V/ 2000 mAh)	Li-ion BATTERY PACK (7.4 V/ 1480 mAh)	Ni-MH BATTERY PACK (7.2 V/ 1400 mAh)	Li-ion BATTERY PACK (7.4 V/ 2000 mAh)	Li-ion BATTERY PACK (7.4 V/ 2860 mAh)	Li-ion BATTERY PACK for I.S.* (7.4 V/ 2860 mAh)	Ni-MH BATTERY PACK (7.2 V/ 1500 mAh)	Li-ion BATTERY PACK (7.4 V/ 2000 mAh)	Li-ion BATTERY PACK (7.4 V/ 2450 mAh)
NX-5200/5300/5400	•	•	•								
NX-3200/3300/3400				•	•	•	•	•			
NX-3220/3320/3420				•	•	•	•	•			
NX-1200/1300 [N/D/A]									•	•	•

Battery Packs / Alkaline Refillable Battery Cases / Chargers

	KNB-82LC	KNB-84L	KNB-63L	KNB-65L	KNB-71L	KBP-5	KBP-8	BT-16	KSC-Y32	KSC-32S	KSC-25S
	Li-ion BATTERY PACK for I.S.* (7.4 V/ 1900 mAh)	Li-ion BATTERY PACK (7.4 V/ 1900 mAh) [IP67]	Li-ion BATTERY PACK (7.4 V/ 1130 mAh)	Li-ion BATTERY PACK (7.4 V/ 1520 mAh)	Li-ion BATTERY PACK (3.7 V/ 1430 mAh)	BATTERY CASE (6 AA)	BATTERY CASE (12 AA)	BATTERY CASE (6 AAA)	RAPID CHARGER	RAPID CHARGER	RAPID CHARGER
NX-5200/5300/5400							•		•	•	
NX-3200/3300/3400						•					•
NX-3220/3320/3420						•					•
NX-1200/1300 [N/D/A]	•	•									
TK-2000/3000			•	•				•			
PKT-23(A)					•						

Chargers / Audio Accessories

	KSC-25LS	KSC-43	KSC-44CR	KSC-44SL	KSC-44ML	KSC-326A	KSC-256A	KSC-356A	EMC-11	KMC-21A
	RAPID CHARGER (Li-ion only)	RAPID CHARGER	RAPID CHARGER (Cradle only**)	AC ADAPTER (for KSC-44CR Single Unit)	AC ADAPTER (for KSC-44CR Multiple Units)	MULTIPLE CHARGER (6-pocket)	MULTIPLE CHARGER (6-pocket)	MULTIPLE CHARGER (6-pocket)	CLIP MICROPHONE with EARPHONE	SPEAKER MICROPHONE (Compact Size)
NX-5200/5300/5400						•				
NX-3200/3300/3400	•						•			
NX-3220/3320/3420	•						•		•	•
NX-1200/1300 [N/D/A]		•						•	•	•
TK-2000/3000		•						•	•	•
PKT-23(A)			•	•	•					

Audio Accessories / Others

	KMC-45D	KMC-70 [GR]	KMC-72	KBH-10	KBH-11	KBH-18	KBH-20	KAS-12	KPG-180AP
	SPEAKER MICROPHONE (IP54/55)	SPEAKER MICROPHONE (IP68) 3 Buttons on top, 2 Mic. for Active Noise Canceling	SPEAKER MICROPHONE (IP67) with 2 Top Buttons	BELT CLIP	BELT CLIP (2.5")	BELT CLIP	BELT CLIP	BATTERY READER (for KSC-Y32)	OTAP MANAGER (PC Software)
NX-5200/5300/5400		•	•		•			•	•
NX-3200/3300/3400		•	•		•				•
NX-3220/3320/3420	•				•				•
NX-1200/1300 [N/D/A]	•			•					
TK-2000/3000	•					•			
PKT-23(A)							•		

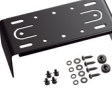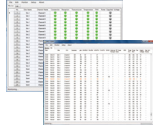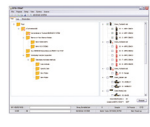*I.S.: Intrinsically Safe
**Either AC adapter KSC-44SL (for single unit) or KSC-44ML (for up to 6 units) is required to use the Rapid Charger KSC-44CR.

For LMR Mobile Radios and Base-Repeaters

	Microphones					Speakers & Control Heads		
	KMC-60	KMC-62	KMC-65	KMC-66	KMC-9C	KES-5A	KCH-19	KCH-20R
	MICROPHONE	KEYPAD MICROPHONE (16-keypad)	MICROPHONE (IP54/55)	KEYPAD MICROPHONE (IP54/55 & 12-keypad)	DESKTOP MICROPHONE	EXTERNAL SPEAKER (40 W max input)	BASIC CONTROL HEAD KIT	FEATURED CONTROL HEAD KIT
NX-5700/5800/5900	•	•	•	•	• (Only FDMA)	•	•	•
NX-3720HG/3820HG/3920G	•	•	•	•	• (Only FDMA)	•		
TK-7360/8360	•	•	•	•	•	•		
TK-7302/8302	•	•	•	•	•			
NXR-5700/5800/5900	•		•					
NXR-710/810	•		•					
TKR-D710/D810	•		•					

	Cables						Kits for Control Head	
	KCT-18	KCT-23	KCT-46	KCT-60	KCT-71	KCT-72	KRK-14H	KRK-15B
	IGNITION SENSE CABLE	DC POWER CABLE (M: 3 m / M3: 7 m)	IGNITION SENSE CABLE	CONNECTION CABLE (D-sub 15 to Molex)	REMOTE CONTROL CABLE (Available in 5.2 m, 7.6 m, and 0.5 m)	CONNECTION CABLE	CONTROL HEAD INTERFACE KIT (Adapter for the Head)	CONTROL HEAD REMOTE KIT (Adapter for the RF Deck)
NX-5700/5800/5900	•	•	•		•	•	•	•
NX-3720HG/3820HG/3920G	•	•		•	•	•		
TK-7360/8360	•			•				
TK-7302/8302	•			•				

	Kits for Control Head		Others					
	KRK-18H	KRK-19B	KRA-40G	KMB-33	KMB-36	KMB-10	KLF-2	KAP-2
	CONTROL HEAD INTERFACE KIT (Adapter for the Head)	CONTROL HEAD REMOTE KIT (Adapter for the RF Deck)	GPS ACTIVE ANTENNA	MOUNTING BRACKET	MOUNTING BRACKET [for 100 W/ 110 W mobile]	KEY LOCK ADAPTER	LINE FILTER	HORN ALERT/ P.A. RELAY UNIT
NX-5700/5800/5900			•	•	•	•	•	•
NX-3720HG/3820HG/3920G	•	•	•			•	•	
TK-7360/8360						•		
TK-7302/8302						•		
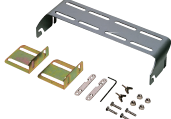
	Others						
	KXK-3	KTI-3	KTI-4	KTI-5	KAS-20	KPG-149RM	KPG-180AP
	OCXO UNIT	NETWORK INTERFACE UNIT	INTERCONNECT ADAPTER	NETWORK BOX	AVL AND DISPATCH SOFTWARE (PC Software)	REPEATER MONITOR (PC Software)	OTAP MANAGER (PC Software)
NX-5700/5800/5900					•		•
NX-3720HG/3820HG/3920G					•		•
NXR-5700/5800/5900	•		•		•	•	
NXR-710/810		•		•	•	•	
TKR-D710/D810				•	•	•	

For Amateur Radios

		KNB-63L	KNB-65L	BT-16	KSC-43	MC-62	PG-2N
		Li-ion BATTERY PACK (7.4 V/1130 mAh)	Li-ion BATTERY PACK (7.4 V/1520 mAh)	BATTERY CASE (6 AAA)	RAPID CHARGER	KEYPAD MICROPHONE (16-keypad)	DC POWER CABLE
Portables	TH-K20A/K40A	•	•	•	•		
Mobiles	TM-D710GA					•	•
	TM-V71A					•	•

		PG-3B	PG-5A	PG-5F	PG-5G	PG-5H	DFK-3D
		DC LINE NOISE FILTER	DATA CONNECTION CABLE (MOBILES)	EXTENSION CABLE KIT (4 m)	PROGRAMMING INTERFACE CABLE	PC INTERFACE CABLE (FOR ECHOLINK NODE TERMINAL OPERATION)	DETACHABLE FRONT PANEL KIT (3 m)
Mobiles	TM-D710GA	•	•	•	•	•	
	TM-V71A	•	•	•	•	•	•

		VGS-1	SP-990	SP-890	HS-5	HS-6	MC-90
		VOICE GUIDE AND STORAGE UNIT	EXTERNAL SPEAKER	EXTERNAL SPEAKER	OPEN-AIR DELUXE HEADPHONE	LIGHT WEIGHT HEADPHONE	DELUXE DESKTOP MICROPHONE
Mobiles	TM-D710GA	•					
	TM-V71A	•					
Base Stations	TS-990S		•		•	•	•
	TS-890S			•	•	•	•
	TS-590SG	•			•	•	•

		MC-43	MC-47	MB-430	PG-20	SO-3
		HAND MICROPHONE	MULTI-FUNCTION MICROPHONE	MOUNTING BRACKET	DC CABLE (7 m)	TCXO UNIT
Base Stations	TS-990S	•	•			
	TS-890S	•	•			
	TS-590SG	•	•	•	•	•

		SP-23	YG-82CN-1
		EXTERNAL SPEAKER	270 Hz CW FILTER
Base Stations	TS-890S		•
	TS-590SG	•	

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.

Specifications

Digital – Multi-Protocol Radios			
	NX-5200/5300/5400	NX-5700/5800/5900	NX-3200/3300/3400 (Universal audio connector)	NX-3220/3320/3420 (2-pin audio connector)
Supporting Protocols	Any combination of two digital protocols can be selected from three protocols NXDN, DMR, and P25 (Phases 1 & 2), plus FM Analog		NXDN or DMR digital, and FM Analog protocols	
Frequency Range	136-174, 380-470, 450-520 MHz RX: 763-776, 851-870 MHz, TX: 763-776, 793-806, 806-825, 851-870 MHz		136-174, 400-520 MHz TX/RX: 851-870, 935-941 MHz, TX: 806-825, 896-902 MHz	
Number of Channels	1024 ch (Up to 4000 ch with option)	1024 ch (Up to 4000 ch with option)	512 ch (64 ch for no LCD models) (Up to 1000 ch with option)	260 ch (64 ch for no LCD models) (Up to 1000 ch with option)
RF Power Output	VHF: 6/1 W, UHF: 5/1 W 700-800 MHz: 3/1 W	VHF: 50-5 W, UHF: 45-5 W 700 MHz: 30-2 W, 800 MHz: 35-2 W	VHF/UHF: 5/4/1 W 800-900 MHz: 3/1 W	VHF/UHF 5/4/1 W 800-900 MHz: 3/1 W
Dimensions (W x H x D) Projections not Included	58.0 x 138.9 x 39.8 mm (with KNB-L1)	171 x 48 x 176 (196*) mm (*Depth for the NX-5900)	56 x 119.6 x 39.0 mm (with KNB-57L)	56 x 119.6 x 39.0 mm (with KNB-57L)
Weight (net)	382 g (with KNB-L1)	1.6 kg (NX-5900: 1.7 kg)	340 g (with KNB-57L)	340 g (with KNB-57L)

Digital – Multi-Protocol Radios		NEXEDGE Digital Radios		DMR Digital Radios
	NX-3720HG/3820HG/3920G	NX-1200/1300 [D/N/A]	NXR-5700/5800/5900	NXR-710/810	TKR-D710/D810
Supporting Protocols	NXDN or DMR digital, plus FM Analog	NXDN or DMR digital (User selects a protocol at the time of purchase), plus FM Analog	NXDN Trunking and Conventional, plus FM Analog	NXDN Conventional and FM Analog	DMR Conventional and FM Analog
Frequency Range	136-174, 400-520 MHz TX/RX: 851-870 MHz TX: 806-825 MHz	136-174, 400-470 MHz, 450-520 MHz	136-174, 350-400 MHz, 400-470, 450-520 MHz RX: 806-825 MHz; TX: 851-870 MHz	136-174, 350-400 MHz, 400-470, 450-520 MHz	136-174, 400-470 MHz, 450-520 MHz
Number of Channels	512 ch (Up to 1000 ch with option)	260 ch (64 for Basic models)	30 ch	30 ch	30 ch
RF Power Output	VHF 50/30/5 W UHF 45/30/5 W 800 MHz 15/5 W	VHF/UHF 5/4/1 W	VHF 25/5/0.5 W UHF 25/5/0.5 W 800 MHz 360 mW	VHF 50-5 W UHF 40-5 W	VHF 50-5 W UHF 40-5 W
Dimensions (W x H x D) Projections not Included	160 x 43 x 160 mm	54 x 123 x 33.5 mm (with KNB-45L/84L)	483 x 44 x 331 mm	483 x 88 x 340 mm	483 x 88 x 340 mm
Weight (net)	1.2 kg	295 g (with KNB-45L)	5 kg	9.7 kg	9.7 kg

FM Analog Radios					Everyday Radios
	TK-2000/3000	PKT-23A	TK-7360H/8360H	TK-7302H/7302 TK-8302H/8302	PKT-23
Supporting Protocols	FM Analog	FM Analog	FM Analog	FM Analog	FM Analog
Frequency Range	136-174, 350-390 MHz 400-430, 440-480 MHz	440-480 MHz	136-174, 400-470 MHz 350-400, 450-520 MHz	136-174, 400-470 MHz 350-400, 450-520 MHz	PMR446 Frequencies
Number of Channels	16 ch	16 ch	128 ch	100/16 ch	8 ch
RF Power Output	VHF 5/1 W UHF 4/1 W	UHF 1.5/0.5 W	VHF 50-5 W UHF 45-5 W	VHF 50-5 W [H] / 25-5 W UHF 45-5 W [H] / 25-5 W	UHF 0.5 W
Dimensions (W x H x D) Projections not Included	54 x 113 x 14 mm (with KNB-63L)	45.7 x 83.8 x 20.3 mm (with KNB-71L)	160 x 43 x 136 mm	160 x 43 x 137 mm	45.7 x 83.8 x 20.3 mm (with KNB-71L)
Weight (net)	203 g (with KNB-63L)	110 g (with KNB-71L)	1.2 kg	1.2 kg	110 g (with KNB-71L)

Amateur Radios					
	TS-990S	TS-890S	TS-590SG	TM-D710GA	TM-V71A	TH-K20A/ K40A
Frequency Range	TX: 160 to 6 meters Amateur radio bands RX: 0.13-30 / 50-54 MHz	TX: 160 to 6 meters Amateur radio bands RX: 0.13-30 / 50-54 MHz	TX: 160 to 6 meters Amateur radio bands RX: 0.13-30 / 50-54 MHz	TX: 144-148, 430-450 MHz RX: 118-524 / 800-1300 MHz* (*excluding cellular band)	TX: 144-148, 430-450 MHz RX: 118-524 / 800-1300 MHz* (*excluding cellular band)	TX: 144-148 MHz RX: 136-174 MHz TX/RX: 400-470 MHz
RF Power Output	200 W (AM: 50 W)	100 W (AM: 25 W)	100 W (AM: 25 W)	50/10/5 W	50/10/5 W	TH-K20A: 5.5/2/1 W TH-K40A: 5/2/1 W
Dimensions (W x H x D) Projections not Included	460 x 165 x 400 mm	396 × 141.3 × 340 mm	270 × 96 × 291 mm	Panel: 155 x 70 x 38 mm Body: 140 x 43 x 142 mm	140 x 43 x 180.7 mm	54 x 111.7 x 25.3 mm (with KNB-63L)
Weight (net)	24.5 kg	15.8 kg	7.4 kg	Panel: 0.3 kg / Body: 1.2 kg	1.5 kg	210 g (with KNB-63L)

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