Our Commitment

We offer 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;
- **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, adherence to a strong value proposition and precision manufacturing.

The KENWOOD brand symbolizes our commitment to our customers. Our expertise and values are incorporated into every aspect of our business.
Solutions

A major shift is taking place in radio systems – from analogue to digital. But to completely replace legacy systems is far too costly a burden for many enterprises. Fortunately KENWOOD products offer a smooth migration path: customers can introduce NEXEDGE® digital radios while still making use of existing analogue units. This is another very practical KENWOOD solution that is already proving its worth in countries around the world.

Quality, Reliability and the Environment

KENWOOD products are manufactured at our own factories in Japan, Singapore and China, where every effort is made to enhance quality and reliability. Kenwood Electronics Singapore (KETS) is not just a manufacturing centre for transceivers: it also has its own R&D facility. Engineers are continuously making improvements at every stage, from design through to production. In fact, the firm commitment of the staff to quality won them the MAXA award in 2007 and the Innovation Excellence Award in 2008.

Gruelling tests are implemented to verify that KENWOOD products meet or exceed US military 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. In addition, as well as observing RoHS and REACH restrictions on harmful substances, our design and production engineers adhere to an even stricter set of in-house rules governing such substances, thus providing yet greater protection for the environment.
### NEXEDGE® Digital

#### VHF/UHF Radios

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
<th>Power Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>NXR-700/800</td>
<td>146-174 MHz, 25 W</td>
<td>Digital / FM Trunked</td>
<td>Digital / FM Trunked, Repeater &amp; Duplex / Simplex Base Operation,</td>
</tr>
<tr>
<td></td>
<td>136-154 MHz, 5 W</td>
<td></td>
<td>Digital Multi-site Conventional IP Network, Digital Multi-site Trunking</td>
</tr>
<tr>
<td></td>
<td>450-480 MHz, 5 W</td>
<td></td>
<td>Network, 500 Channels / 128 Zones, Backlit Dot Matrix LCD</td>
</tr>
<tr>
<td></td>
<td>480-512 MHz, 5 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>440-470 MHz, 25 W</td>
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<tr>
<td></td>
<td>400-430 MHz, 25 W</td>
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<td></td>
<td>380-400 MHz, 5 W</td>
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<tr>
<td></td>
<td>Digital / FM Conventional</td>
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<tbody>
<tr>
<td>NXR-710/810</td>
<td>136-174 MHz, 400-470 M</td>
<td>Digital / FM Conventional</td>
<td>Digital / FM Conventional, Repeater &amp; Duplex / Simplex Base Operation,</td>
</tr>
<tr>
<td></td>
<td>136-174 MHz, 400-520 M</td>
<td></td>
<td>Digital Multi-site Conventional IP Network, Digital Multi-site Trunking</td>
</tr>
<tr>
<td></td>
<td>25 W @ 100 % Duty</td>
<td></td>
<td>Network, 260 Channels / 128 Zones, Backlit LCD</td>
</tr>
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<td></td>
<td>30 CH Scanning Base</td>
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<tbody>
<tr>
<td>NX-700(H)/800(H)</td>
<td>136 -174 MHz, 30 W / 50 W</td>
<td></td>
<td>14 Character Alphanumeric Aliases, Backlit Dot Matrix LCD,</td>
</tr>
<tr>
<td></td>
<td>400-470, 450-520 MHz, 30 W/45 W</td>
<td></td>
<td>Over-the-Air Programming, GPS Connectivity</td>
</tr>
<tr>
<td></td>
<td>512 Channels / 128 Zones</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dash &amp; Remote Mount</td>
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<th>Model</th>
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<tbody>
<tr>
<td>NX-720H(G)/820H(G)</td>
<td>136-174 MHz, 5-50 W</td>
<td></td>
<td>Voice Annunciation, Over-the-Air Programming, GPS Connectivity</td>
</tr>
<tr>
<td></td>
<td>400-470, 450-520 MHz, 5-45 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>260 Channels / 128 Zones</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 Character Alphanumeric Aliases</td>
<td></td>
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<tr>
<td></td>
<td>Backlit LCD</td>
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<th>Model</th>
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<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>NX-200/300</td>
<td>136-174 MHz, 5 W</td>
<td>Intrinsically Safe Option</td>
<td>Intrinsically Safe Option, Over-the-Air Programming, GPS Connectivity,</td>
</tr>
<tr>
<td></td>
<td>400-470, 450-520 MHz, 5 W</td>
<td></td>
<td>Immersion (IP67) option</td>
</tr>
<tr>
<td></td>
<td>512 Channels / 128 Zones</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>14 Character Alphanumeric Aliases</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Backlit Dot Matrix LCD</td>
<td></td>
<td></td>
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</thead>
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<tr>
<td>NX-220/320</td>
<td>136-174 MHz, 5 W</td>
<td></td>
<td>8 Character Alphanumeric Aliases, Backlit LCD &amp; Keys, Built-in Motion Sensor,</td>
</tr>
<tr>
<td></td>
<td>400-470, 450-520 MHz, 5 W</td>
<td></td>
<td>Over-the-Air Programming, GPS Connectivity</td>
</tr>
<tr>
<td></td>
<td>260 Channels / 128 Zones</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>64 Channels / 4 Zones (Non Display Models)</td>
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</tr>
</tbody>
</table>

Model availability may vary depending on the country or region.

nexedge.kenwood.com
800 MHz Radios

**NXR-900**
- RX: 806-825 MHz, TX: 851-870 MHz
- 360 mW Exciter Output
- Digital / FM Conventional
- Digital Trunked
- Repeater Operation
- Digital Multi-site Conventional IP Network
- Digital Multi-site Trunking Network

**NX-900**
- 806-870 MHz, 15 W
- 512 Channels / 128 Zones
- Dash & Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Over-the-Air Programming
- GPS Connectivity

**NX-410**
- 806-870 MHz, 3 W
- 512 Channels / 128 Zones
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Over-the-Air Programming
- GPS Connectivity

**KVT-11** Image Encoder Unit

**KTI-3** Network Interface Unit for the NXR-710/810

**KAS-11** Image Viewer Software

**KTI-4** Interconnect Adapter for NEXEDGE® Digital Trunking System

**Wireless Image System**

KENWOOD’s Wireless Image System is a still image transmission system that offers a quick and effective way to deploy a 24/7 monitoring system at virtually any location with NEXEDGE® digital radio coverage. Unique advantages of this system are that it provides the "last mile" link when no others is available, offering simple installation, easy operation, and wide coverage.
### P25 Digital

#### 800MHz Radios

**TK-5720/5820**
- VHF: 136-174 MHz / 50 W
- UHF: 400-470, 450-520 MHz / 45 W
- 512 Channels / 128 Zones
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- P25 Digital Conventional

**TK-5910**
- 763-806 MHz / 3 W
- 806-870 MHz / 3 W
- 1024 Channels / 100 Zones
- P25 Digital Conventional
- P25 Digital Trunked
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD

**TK-5410**
- 763-806 MHz / 3 W
- 806-870 MHz / 3 W
- 1024 Channels / 100 Zones
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- P25 Digital Conventional
- P25 Digital Trunked

#### FM Analogue Trunking

**TK-2180/3180MPT**
- VHF: 136-174 MHz / 5 W
- UHF: 450-520, 400-470 MHz / 5 W
- 12 Character Alphanumeric Aliases
- MPT 1327 / 1343
- Intrinsically Safe (FM) Option

**TK-2178/3178MPT**
- VHF: 136-174 MHz / 5 W
- UHF: 440-480, 400-430, 350-390 MHz / 4 W
- 128 Channels / 128 Zones
- 8 Character Alphanumeric Aliases
- MPT 1327 / 1343
- Intrinsically Safe (CQST) Option

**TK-7180/8180MPT, TK-8185**
- VHF: 136-174 MHz / 30-50 W
- UHF: 450-520, 400-470 MHz / 30-45 W
- TK-8185: 350-390 MHz / 25 W
- 12 Character Alphanumeric Aliases
- MPT 1327 / 1343

### MPT Trunking Radios

**TK-5220/5320**
- VHF: 136-174 MHz / 5 W
- UHF: 400-470, 450-520 MHz / 5 W
- 512 Channels / 128 Zones
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- P25 Digital Conventional
- Immersion (IP67) Option
- Intrinsically Safe Option

**TK-5910**
- 763-806 MHz / 30 W
- 806-870 MHz / 35 W
- 1024 Channels / 100 Zones
- P25 Digital Conventional
- P25 Digital Trunked

**TK-5410**
- 763-806 MHz / 3 W
- 806-870 MHz / 3 W
- 1024 Channels / 100 Zones
- P25 Digital Conventional
- P25 Digital Trunked

**TK-2180/3180MPT**
- VHF: 136-174 MHz / 5 W
- UHF: 450-520, 400-470 MHz / 5 W
- 12 Character Alphanumeric Aliases
- MPT 1327 / 1343
- Intrinsically Safe (FM) Option

**TK-2178/3178MPT**
- VHF: 136-174 MHz / 5 W
- UHF: 440-480, 400-430, 350-390 MHz / 4 W
- 128 Channels / 128 Zones
- 8 Character Alphanumeric Aliases
- MPT 1327 / 1343
- Intrinsically Safe (CQST) Option
**LTR® Trunking Radios**

**TK-2180/3180**
- VHF: 136-174 MHz / 5 W
- UHF: 450-520, 400-470 MHz / 5 W
- 512 Channels / 128 Zones
- 12 Character Alphanumeric Aliases
- LTR® Trunking
- Intrinsically Safe (FM) Option

**TK-3170**
- UHF: 440-480, 400-430 MHz / 4 W
- 128 Channels / 128 Zones
- 8 Character Alphanumeric Aliases
- LTR® Trunking
- Intrinsically Safe (USTC) Option

**TK-7360(H)/8360(H)**
- VHF: 136-174 MHz / 25, 50 W
- UHF: 450-520, 400-470 MHz / 25, 45 W
- 128 Channels / 128 Zones
- 10 Character Alphanumeric Aliases
- LTR® Trunking
- Intrinsically Safe Option

**TK-7180(H)/8180(H)**
- VHF: 136-174 MHz / 30, 50 W
- UHF: 450-520, 400-470 MHz / 30, 45 W
- 512 Channels / 128 Zones
- 12 Character Alphanumeric Aliases
- LTR® Trunking

**MPT/LTR® Trunking Radios**

**NX-200/300/410**
- 136-174 MHz, 5 W; 400-470, 450-520 MHz, 5 W (NX-200/300)
- 806-870 MHz, 3 W (NX-410)
- 512 Channels / 128 Zones
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Intrinsically Safe Option
- Over-the-Air Programming
- GPS Connectivity
- Immersion (IP67) option (NX-200/300)

**NX-220/320**
- 136-174 MHz, 5 W
- 400-470, 450-520 MHz, 5 W
- 260 Channels / 128 Zones
- 64 Channels / 4 Zones (Non Display Models)
- 8 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Built-in Motion Sensor
- Over-the-Air Programming
- GPS Connectivity

**NX-700(H)/800(H)/900**
- 136-174 MHz, 30 W / 50W (NX-700(H)/800(H))
- 400-470, 450-520 MHz, 30 W/45 W (NX-700(H)/800(H))
- 806-870 MHz, 15 W (NX-900)
- 512 Channels / 128 Zones
- Dash & Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Over-the-Air Programming
- GPS Connectivity

**NX-720H(G)/820H(G)**
- 136-174 MHz, 5-50 W
- 400-470, 450-520 MHz, 5-45 W
- 260 Channels / 128 Zones
- 10 Character Alphanumeric Aliases
- Backlit LCD
- Voice Annunciation (Ch No. Speech)
- Over-the-Air Programming
- GPS Connectivity

Model availability may vary depending on the country or region.
FM Analogue Conventional

Portable Radios

TK-2170/3170/3178
- VHF: 136-174 MHz / 5 W
- UHF: 440-480, 400-430 MHz / 4 W
- 350 MHz: 350-390 MHz / 4 W
- 128 Channels / 128 Zones
- 8 Character Alphanumeric Aliases
- LTR® Trunking (TK-3170 only)
- GPS Connectivity (KMC-48GPS)

TK-2360/3360
- VHF: 136-174 MHz / 5 W
- UHF: 400-470 MHz / 5 W
- 16 Channels
- 70 MHz for UHF
- MDC-1200 Signalling
- 4-colour LED Indicator
- GPS Connectivity (KMC-48GPS)

TK-2317/3317
- VHF: 136-174 MHz / 5 W
- UHF: 450-520, 400-470 MHz / 5 W
- 128 Channels / 128 Zones
- 70 MHz for UHF
- GPS Connectivity (KMC-48GPS)
- 6 Character Alphanumeric Aliases
- 4-colour LED Indicator
- Built-in MDC-1200 Signalling

TK-2307/3307
- VHF: 136-174 MHz / 5 W
- UHF: 450-490, 440-480 MHz / 4 W
- 350 MHz: 350-390 MHz / 4 W
- 16 Channels
- 3-colour LED Indicator
- Built-in MDC-1200 Signalling
Mobile Radios

TK-2000/3000
- VHF: 136-174 MHz / 5 W
- UHF: 440-480, 400-430, 350-390 MHz / 4 W
- 16 Channels
- All-in-One Package
- 3-character Alphanumeric Aliases

TK-3230
- 460-470 MHz / 1.5 W
- All-in-One Package
- 4-character Alphanumeric Aliases

TK-7360(H)/8360(H)
- VHF: 136-174 MHz / 25, 50 W
- UHF: 450-520, 400-470 MHz / 25, 45 W
- 350 MHz: 350-400 MHz / 25 W
- 128 Channels / 128 Zones
- 70 MHz for UHF
- 10 Character Alphanumeric Aliases
- External D-Sub 15-pin Interface
- Built-in MDC-1200 Signalling
- 4-colour LED Indicator
- GPS Connectivity

TK-7302(H)/8302(H)
- 16 Channels / 2 Zones
- VHF: 136-174 MHz / 25, 50 W
- UHF: 450-520, 400-470 MHz / 25, 45 W
100 Channels / 4 Zones
- VHF: 136-174 MHz / 50 W
- UHF: 400-470 MHz / 45 W
- 350 MHz: 350-400 MHz / 25 W
- External D-Sub 15-pin Interface
- Built-in MDC-1200 Signalling
- 4-colour LED Indicator
- GPS Connectivity
- 2 Character Alphanumeric Aliases

Model availability may vary depending on the country or region.
800 MHz Radios

TK-480
- 806-870 MHz / 2.5 W
- Max. 600 Channels (Conventional)
- LTR® Trunked Systems
- Conventional Systems
- 32 Systems / 250 Groups (LTR®)
- 10 Character Alphanumeric Aliases

TK-980
- 806-870 MHz / 15 W
- Max. 600 Channels (Conventional)
- LTR® Trunked Systems
- Conventional Systems
- 32 Systems / 250 Groups (LTR®)
- 10 Character Alphanumeric Alias

HF & Repeaters

TK-90
- RX: 0.5-30 MHz
- TX: 1.8-30 MHz
- 100 W (SSB/CW/FSK)
- 25 W (AM)
- 300 Channels
- Remote Control Head Option
- GPS Connectivity
*Remote Control Head Only

TKR-750/850
- VHF: 146-174 MHz, 136-150 MHz, 50 W to 25 W
- UHF: 450 - 480 MHz, 480 - 512 MHz, 400-430 MHz, 350-390 MHz, 40 W to 25 W
- 100 % Duty @ 25 W
- Simplex or Duplex Base Operation
- 16 Full-Duplex Channels
License Free Radios

PMR446

- UBZ-LJ8
  - 0.5 W RF Output
  - 8 Channels
  - Available 3 AA Alkaline Batteries
  - 90 mW Audio Output

TK-3301

- 0.5 W RF Output
- 16 Channels, 8 pre-stored PMR446 frequencies
- Voice announcement
- Long battery operation
- 500 mW Audio Output

TK-2310R ProTalk245

- 80 CB Channels, compliant with Thailand CB Regulations
- 5/1 W RF Output

Model availability may vary depending on the country or region.
Amateur Radios

Base Stations

TS-2000 All Mode Multibander
- HF / 50 / 144 / 430 MHz
- 1200 MHz with Optional UT-20
- Built-in TCXO
- Built-in 1200 / 9600 bps TNC with AX.25 Protocol
- Satellite Communications
- Optional RC-2000 Mobile Controller
- Kenwood Skycommand System

TM-D710A 144/430 MHz FM Dual Bander
- 144 / 430 MHz
- 50 W RF Output
- Built-in 1200 / 9600 bps TNC with AX.25 Protocol
- APRS® Ready
- Separate Panel
- Simple Node Access with EchoLink® Memory
- Dual Receive on Same Band (VxV, UxU)
- Kenwood Skycommand System

TS-590S HF/50 MHz All Mode Transceiver
- HF / 50 MHz
- 500 Hz / 2.7 kHz Roofing Filter
- 32-bit Floating Point DSP
- 100 W Heavy-Duty
- Automatic Antenna Tuner
- Optional TCXO
- USB Port for PC Connectivity
- Kenwood Skycommand System

TM-V71A 144/430 MHz FM Dual Bander
- 144 / 430 MHz
- 50 W RF Output
- Dual Receive on Same Band (VxV, UxU)
- Simple Node Access with EchoLink® Memory
- Wide Reception: 118-524 MHz, 800-1300 MHz*
- Invertible Front Panel
- *Excluding cellular blocked + frequencies

TS-480HX/SAT HF/50 MHz All Mode Transceiver
- HF / 50 MHz
- 200W RF Output, 100w @ 50 MHz (TS-480HX)
- 100 W RF Output (TS-480SAT)
- All Amateur Bands (1.8 MHz to 50 MHz) for TX
- 16-bit AF DSP
- Twin Cooling Fans (TS-480HX)
- Separate LCD Control Panel

TM-281A/481A FM Mono Band Transceiver
- 136-174 MHz (TM-281A), 400-470 MHz (TM-481A)
- 65 W/25 W (TM-281A), 45 W/25 W (TM-481A) RF power
- Large 58 x 35mm oval speaker
- 200 Memory Channels + 1 Call-Channel
- Multiple Scan Modes
- 42 CTCSS & 104 DCS Sub-tone Frequency Coverage

Mobile Radios
Portable Radios

TH-D72A 144/430 MHz FM Dual Bander
- 5 W RF Output
- Built-in High Performance GPS Receiver
- Built-in APRS® Firmware
- USB (Mini-B) Port
- Built-in VOX

TH-F7E 144/430 MHz FM Dual Bander
- 5 W RF Output
- Dual Receive on Same Band (VxV, UxU)
- 0.1-1300 MHz Wideband Receiver
- 1200 / 9600 bps Packet Function (ext. TNC)
- Built-in VOX

TH-K20A/K40A 144/430 MHz Mono Band FM Transceiver
- 5.5 W (TH-K20A), 5 W (TH-K40A) RF Output
- 200 Channels with 6-Digit Memory Name
- High Sound Pressure for Audio Clarity
- 11 Pre-programmed Direct Function Keys and 1 Customizable Function Key
- Supplied Li-ion Battery & Cradle Charger
- Built-in VOX

TH-255A 144 MHz FM Transceiver
- 5.5 W RF Output
- 400 mW Speaker
- 100 Memory Channels
- 8-hour Continuous Operation

Model availability may vary depending on the country or region.
Intrinsically Safe

**ATEX**

TK-2260EX/3360EX + KNB-58LEX/64LEX

- ATEX Certified to EU 94/9/EC:-
- Gas: IIL2G Ex ib IIC T4
- Dust: IILD Ex tD ibD A21 IP6X T110C
- Mining: IM2 Ex ib I
- Frequency: 136-174, 440-470 MHz
- 16 Channels
- 1.2 Watt RF Output
- Built-In Voice Scrambler
- FleetSync® Digital Signalling
- 5-Tone Signalling
- Emergency Features
- Immersion IP64/65
- KNB-58LEX Li-ion Battery 7.4V/1880mAh
- KNB-64LEX Li-ion Battery 7.4V/1030mAh

**CSA**

NX-410 + KNB-41NC

- CSA Certificate
- IS /I, II, III/1/DEFG/T3C
- Frequency: 806-870 MHz
- 128 Zones / 512 Channels
- 3 Watts RF Output
- Analogue FM and NXDN® Dual mode
- NXDN® Digital Conventional
- NXDN® Digital Trunking
- FleetSync® Digital Signalling
- Emergency Features
- KNB-41NC Ni-MH Battery 7.2V/2500mAh

**FM**

TK-5220/5320 + KNB-50NC

- FM Approvals
- IS /I, II, III/1/CDEFG/T3C
- Frequency: 136-174, 400-470, 450-520 MHz
- 128 Zones / 512 Channels
- 5 Watts RF Output
- Emergency Features
- Analogue FM and P25 Dual mode
- P25 Digital Conventional
- P25 Digital Trunking
- FleetSync® / MDC-1200 Digital Signalling on Analogue FM
- KNB-50NC Ni-MH Battery 7.2V/2000mAh

NX-200/300 + KNB-50NC

- FM Approvals
- IS /I, II, III/1/CDEFG/T3C
- Frequency: 136-174, 400-470, 450-520 MHz
- 128 Zones / 512 Channels
- 5 Watts RF Output
- Emergency Features
- Analogue FM and NXDN® Dual mode
- NXDN® Digital Conventional
- NXDN® Digital Trunking
- FleetSync® / MDC-1200 Digital Signalling on Analogue FM
- KNB-50NC Ni-MH Battery 7.2V/2000mAh

TK-2180/3180 + KNB-41NC

- FM Approvals
- IS /I, II, III/1/CDEFG/T3C
- Frequency: 136-174, 400-470, 450-520 MHz
- 128 Zones / 512 Channels
- KNB-41NC Ni-MH Battery 7.2V/2500mAh

**Worldwide Directives/ Certifications for IS Radios**

**ATEX directives** are EU standards covering equipment to be used where there is a potential risk from explosive atmospheres; certified products eliminate the risk of ignition and ensure safe operation. **FM Approvals** is a notified body (a third-party certification agency) for ATEX and is accredited by the Standards Council of Canada (SCC); it also participates in the international IECEx certification scheme. In China **CQST** is a safety certification scheme for electrical products to be used in hazardous areas. And in North America, **USTC** certification assure conformity with relevant US and Canadian standards.
### TK-2178/3178 + KNB-40LC (CQST)

- **CQST Approvals**
- **Gas:** ExibIBT3
- **Dust:** DIP A22 TA, T3
- **Frequency:** 136-174 MHz (TK-2178)
- **Frequency:** 400-430, 440-480, 350-390 MHz (TK-3178)
- **3 Watts RF Output**
- **Conventional Software Version**
- **MPT1327 Trunking Software Version**
- **KNB-40LC Li-ion Battery**
  - 7.4V/2000mAh

### TK-2360/3360 + KNB-40LC (CQST)

- **CQST Approvals**
- **Gas:** ExibIBT3
- **Dust:** DIP A22 TA, T3
- **Frequency:** 136-174, 400-470 MHz
- **3 Watts RF Output**
- **KNB-40LC Li-ion Battery**
  - 7.4V/2000mAh

### USTC (ANSI / UL 913)

### NX-220/320 + KNV-40LCV (USTC)

- **SGS USTC Confirmation**
- **IS / I, II, III / 1 / C,D,F,G**
- **NI / I, II, III / 2 / A,B,C,D,F,G**
- **Frequency:** 136-174 (NX-220), 400-470, 450-520 MHz (NX-320)
- **128 Zones / 260 CH-GID (LCD Models)**
- **4 Zones / 64 CH-GID (Non-LCD Models)**
- **5 Watts RF Output**
- **FleetSync® / MDC-1200 Digital Signalling on Analogue FM**
- **KNB-40LCV Li-ion Battery**
  - 7.4V/2000mAh

### TK-2170/3170 + KNB-40LC (USTC)

- **SGS USTC Confirmation**
- **IS / I, II, III / 1 / A,B,C,D,E,F,G**
- **NI / I, II, III / 2 / A,B,C,D,F,G**
- **Frequency:** 136-174, 400-430, 450-490 MHz
- **128 Zones / 512 Channels**
- **5 Watts RF Output (TK-2170)**
- **4 Watts RF Output (TK-3170)**
- **FleetSync® Digital Signalling**
- **Emergency Features**
- **KNB-40LC Li-ion Battery**
  - 7.4V/2000mAh

### TK-2360/3360 + KNB-40LCV (USTC)

- **SGS USTC Confirmation**
- **IS / I, II, III / 1 / C,D,E,F,G**
- **NI / I, II, III / 2 / A,B,C,D,F,G**
- **Frequency:** 136-174, 400-470, 450-520 MHz
- **128 Zones / 512 Channels**
- **5 Watts RF Output**
- **KNB-40LCV Li-ion Battery**
  - 7.4V/2000mAh

**Note:** Please read the IS Manual very carefully before using the IS radio. The radio/battery combination must be strictly observed. There must be no substitution of items, even if the substitute has been previously approved for use with other KENWOOD communications equipment. Do not use the radio with any battery or accessories or options in a hazardous atmosphere unless they are specifically certified for such use; otherwise, an explosion or fire could result. Charge batteries only in areas known to be non-hazardous (in fresh air).

Model availability may vary depending on the country or region.
Optional Accessories for LMR Portable Radios

### Antenna
- **KRA-22**
  - VHF Helical Antenna Short Type
- **KRA-23**
  - UHF Helical Antenna Short Type
- **KRA-26**
  - VHF Helical Antenna (Capless)
- **KRA-27**
  - UHF Whip Antenna (Capless)
- **KRA-32**
  - 700/800 MHz Whip Antenna
- **KRA-35**
  - UHF Whip Antenna (Capless, 335-400MHz)

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<tr>
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<th>BROWN</th>
<th>WHITE</th>
<th>GREEN</th>
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<th>146-162</th>
<th>162-174</th>
<th>136-150</th>
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- **NX-200/300**
  - •
- **NX-220/320**
  - •
- **NX-410**
  - •
- **TK-540**
  - •
- **TK-5220/5320**
  - •
- **TK-2180/3180**
  - •
- **TK-2178/3178**
  - •
- **TK-2170/3170**
  - •
- **TK-2360/3360**
  - •
- **TK-2317/3317**
  - •
- **TK-2307/3307**
  - •
- **TK-3230**
  - •
- **TK-2000/3000**
  - •
- **TK-480**
  - •
- **TK-3301**
  - •
- **TK-2310R**
  - •

### Batteries
- **KNB-48L**
  - Li-ion Battery
  - 7.4V/2550mAh
- **KNB-47L**
  - Li-ion Battery
  - 7.4V/1950mAh
- **KNB-57L**
  - Li-ion Battery
  - 7.2V/2000mAh
- **KNB-55N**
  - Ni-MH Battery
  - 7.2V/1400mAh
- **KNB-55L**
  - Li-ion Battery
  - 7.2V/1480mAh
- **KNB-54N**
  - Ni-MH Battery
  - 7.2V/2500mAh
- **KNB-33L**
  - Li-ion Battery
  - 7.4V/1700mAh

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- **NX-200/300**
  - •
- **NX-220/320**
  - •
- **NX-410**
  - •
- **TK-540**
  - •
- **TK-5220/5320**
  - •
- **TK-2180/3180**
  - •
- **TK-2178/3178**
  - •
- **TK-2170/3170**
  - •
- **TK-2360/3360**
  - •
- **TK-2317/3317**
  - •
- **TK-2307/3307**
  - •
- **TK-3230**
  - •
- **TK-2000/3000**
  - •
- **TK-480**
  - •
- **TK-3301**
  - •
- **TK-2310R**
  - •

### Additional Information
- **Optional Accessories for LMR Portable Radios**
- **KRA-22**
  - VHF Helical Antenna Short Type
- **KRA-23**
  - UHF Helical Antenna Short Type
- **KRA-26**
  - VHF Helical Antenna (Capless)
- **KRA-27**
  - UHF Whip Antenna (Capless)
- **KRA-32**
  - 700/800 MHz Whip Antenna
- **KRA-35**
  - UHF Whip Antenna (Capless, 335-400MHz)

- **Batteries**
  - **KNB-48L**
    - Li-ion Battery
    - 7.4V/2550mAh
  - **KNB-47L**
    - Li-ion Battery
    - 7.4V/1950mAh
  - **KNB-57L**
    - Li-ion Battery
    - 7.2V/2000mAh
  - **KNB-55N**
    - Ni-MH Battery
    - 7.2V/1400mAh
  - **KNB-55L**
    - Li-ion Battery
    - 7.2V/1480mAh
  - **KNB-54N**
    - Ni-MH Battery
    - 7.2V/2500mAh
  - **KNB-33L**
    - Li-ion Battery
    - 7.4V/1700mAh

- **NX-200/300**
  - •
- **NX-220/320**
  - •
- **NX-410**
  - •
- **TK-540**
  - •
- **TK-5220/5320**
  - •
- **TK-2180/3180**
  - •
- **TK-2178/3178**
  - •
- **TK-2170/3170**
  - •
- **TK-2360/3360**
  - •
- **TK-2317/3317**
  - •
- **TK-2307/3307**
  - •
- **TK-3230**
  - •
- **TK-2000/3000**
  - •
- **TK-480**
  - •
- **TK-3301**
  - •
- **TK-2310R**
  - •

- **Optional Accessories**
  - **KRA-22**
    - VHF Helical Antenna Short Type
  - **KRA-23**
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    - Li-ion Battery
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  - **KNB-47L**
    - Li-ion Battery
    - 7.4V/1950mAh
  - **KNB-57L**
    - Li-ion Battery
    - 7.2V/2000mAh
  - **KNB-55N**
    - Ni-MH Battery
    - 7.2V/1400mAh
  - **KNB-55L**
    - Li-ion Battery
    - 7.2V/1480mAh
  - **KNB-54N**
    - Ni-MH Battery
    - 7.2V/2500mAh
  - **KNB-33L**
    - Li-ion Battery
    - 7.4V/1700mAh

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### Batteries

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<th>KNB-52N</th>
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<th>BT-16</th>
<th>KBP-7</th>
<th>KBP-6</th>
<th>KBP-5</th>
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<tbody>
<tr>
<td>Ni-MH Battery</td>
<td>7.2V/1400mAh</td>
<td>Li-ion Battery</td>
<td>3.7V/2000mAh</td>
<td>Battery Case (AAA x 6)</td>
<td>Battery Case (AA x 6)</td>
<td>Battery Case (AA x 6)</td>
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</table>

- NX-200/300
- NX-220/320
- NX-410
- Tk-5410
- Tk-3220/5320
- Tk-2180/3180
- Tk-2178/3178
- Tk-2170/3170
- Tk-2360/3360
- Tk-2317/3317
- Tk-2307/3307
- Tk-3230
- Tk-2000/3000
- Tk-480
- Tk-3301
- Tk-2310R

Model availability may vary depending on the country or region.

### Chargers

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<th>KSC-326</th>
<th>KSC-325</th>
<th>KSC-30</th>
<th>KSC-256</th>
<th>KSC-25/L</th>
<th>KVC-22</th>
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<tr>
<td>Multiple Rapid Charger</td>
<td>Rapid Charger</td>
<td>Standard Charger</td>
<td>Multiple Rapid Charger</td>
<td>Rapid Charger</td>
<td>Vehicular Charger</td>
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</table>

- NX-200/300
- NX-220/320
- NX-410
- Tk-5410
- Tk-3220/5320
- Tk-2180/3180
- Tk-2178/3178
- Tk-2170/3170
- Tk-2360/3360
- Tk-2317/3317
- Tk-2307/3307
- Tk-3230
- Tk-2000/3000
- Tk-480
- Tk-3301
- Tk-2310R

- KSC-356
- KSC-35S
- KSC-316
- KSC-31
- KSC-24

- Multiple Rapid Charger | Rapid Charger | Multiple Standard Charger | Standard Charger | Rapid Charger |

- NX-200/300
- NX-220/320
- NX-410
- Tk-5410
- Tk-2180/3180
- Tk-2178/3178
- Tk-2170/3170
- Tk-2360/3360
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- Tk-2307/3307
- Tk-3230
- Tk-2000/3000
- Tk-480
- Tk-3301
- Tk-2310R

Model availability may vary depending on the country or region.
## Optional Accessories for LMR Portable Radios

### Audio Accessories

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<tbody>
<tr>
<td>2-Wire Palm Microphone with Earphone</td>
<td>Lightweight Single Muff Headset with PTT</td>
<td>Behind-the-Head Heavy Duty Headset</td>
<td>Over-the-Head Heavy Duty Headset</td>
<td>3.5mm Earphone Kit</td>
<td>2 Wire Min Lapel Microphone with Earphone</td>
<td>3 Wire Arm Lapel Microphone with Earphone</td>
<td>3 Wire Min Lapel Microphone with Earphone</td>
<td>Headset</td>
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</table>

- NX-200/300
- NX-220/320
- BK-410
- TX-5200/5320
- TX-2180/3180
- TX-2178/3178
- TX-2170/3170
- TX-3360/3380
- TX-2317/3317
- TX-2307/3307
- TX-3230
- TX-2000/3000
- TX-480
- TX-3301
- TX-2310R

### NX-200/300

- NX-220/320
- BK-410
- TX-5200/5320
- TX-2180/3180
- TX-2178/3178
- TX-2170/3170
- TX-3360/3380
- TX-2317/3317
- TX-2307/3307
- TX-3230
- TX-2000/3000
- TX-480
- TX-3301
- TX-2310R

*Depend on the Production Lot*
● Belt Clips, Others

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<tr>
<th>Model</th>
<th>KBH-11</th>
<th>KBH-12</th>
<th>KBH-10</th>
<th>KBH-14</th>
<th>KBH-18</th>
<th>VGS-1</th>
<th>KPG-36U</th>
<th>KPG-22U</th>
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<tr>
<td>KBH-11</td>
<td>Belt Clip</td>
<td>Belt Clip</td>
<td>Belt Clip</td>
<td>Belt Clip</td>
<td>Belt Clip</td>
<td>Voice Guide &amp; Storage Unit</td>
<td>USB Programming Interface Cable (14-pin Universal Connector)</td>
<td>USB Programming Interface Cable (5-pin F-type Jack)</td>
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<td>KBH-12</td>
<td>Belt Clip</td>
<td>Belt Clip</td>
<td>Belt Clip</td>
<td>Belt Clip</td>
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<td>Voice Guide &amp; Storage Unit</td>
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<td>Voice Guide &amp; Storage Unit</td>
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<td>Voice Guide &amp; Storage Unit</td>
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- NK-200/300
- NK-220/320
- NK-410
- TK-3410
- TK-5220/5320
- TK-2180/3180
- TK-2178/3178
- TK-2170/3170
- TK-2360/3360
- TK-2317/3317
- TK-2307/3307
- TK-3230
- TK-2000/3000
- TK-480
- TK-3301
- TK-2310R

Optional Accessories for LMR Mobile Radios & Repeaters

● Audio Accessories

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<th>KMC-35</th>
<th>KMC-36</th>
<th>KMC-30</th>
<th>KMC-32</th>
<th>KMC-9C</th>
<th>KMC-28</th>
<th>KMC-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microphone (IP55 approved)</td>
<td>12Keys Microphone (IP55 approved)</td>
<td>Microphone</td>
<td>16Keys Microphone</td>
<td>Desktop Microphone with 12Keys Pad</td>
<td>Microphone with 12-pin Connector</td>
<td></td>
</tr>
</tbody>
</table>

- NX-700H/800H
- NX-720H/820H
- NX-900
- TK-5910
- TK-5220/5320
- TK-7180/8180
- TK-8183
- TK-7360H/8360H
- TK-7302H/8302H
- TK-980
- TK-99
- NXR-700/800
- NXR-710/810
- NXR-900
- TKR-750/850

Optional Accessories for LMR Mobile Radios & Repeaters

<table>
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<th>KMC-98</th>
<th>KCH-15</th>
<th>KCH-14</th>
<th>KES-5</th>
<th>KES-3</th>
<th>KRA-40G</th>
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</thead>
<tbody>
<tr>
<td>Desktop Microphone</td>
<td>Full-featured Remote Control Head</td>
<td>Basic Remote Control Head</td>
<td>External Speaker (40W)</td>
<td>External Speaker (3W)</td>
<td>GPS Active Antenna</td>
</tr>
</tbody>
</table>

- NX-700H/800H
- NX-720H/820H
- NK-900
- TK-5910
- TK-5220/5320
- TK-7180/8180
- TK-8183
- TK-7360H/8360H
- TK-7302H/8302H
- TK-980
- TK-99
- NXR-700/800
- NXR-710/810
- NXR-900
- TKR-750/850

Model availability may vary depending on the country or region.
## Optional Accessories for LMR Mobile Radios & Repeaters

### Power Supply, Cables and Others

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<th>KPG-43U</th>
<th>KCT-46</th>
<th>KCT-23 M3</th>
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<td>USB Programming</td>
<td>Interface Cable</td>
<td>6-pin Modular Connector</td>
<td>USB Programming Interface Cable</td>
<td>12-pin Universal Connector</td>
<td>Ignition Sense Cable</td>
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<td>DC Cable for Under-dash Mount (M:3m length, M3:7m length)</td>
<td>Connection Cable</td>
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<td>NX-700(H)/800(H)</td>
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<td>NK-720H(G)/820H(G)</td>
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<td>TK-5720/5820</td>
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<td>TK-7360(H)/8360(H)</td>
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<tr>
<td>TK-7302(H)/8302(H)</td>
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<td>TK-980</td>
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### KMB-10
- Key Lock Adaptor

### KMB-19
- Installation Kit (except Mic.)

### KMB-9
- Mounting Bracket

### KAP-2
- PA, HA Unit

### KLF-2
- Line Filter

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Model availability may vary depending on the country or region.

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### VGS-1
- Voice Guide & Storage Unit

### KAT-1
- External Auto Antenna Tuner

### KIF-2
- SSB Filter (2.7 kHz)

### KPE-2
- ALE Unit

### KXX-3
- 0.1 ppm OCXO

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Model availability may vary depending on the country or region.

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### YF-107C
- CW Filter (500Hz)

### KAS-10
- AVC/Dispatcher Software

### KAS-11
- Image Viewer

### KVT-11
- Image Encoder

### KTI-3
- Network Interface Unit

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Model availability may vary depending on the country or region.
## Optional Accessories for Amateur Radios & License Free Radios

### Base Station

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<th>HS-5</th>
<th>HS-6</th>
<th>LF-30A</th>
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<th>MB-480</th>
<th>MC-43S</th>
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<td>Deluxe Headphones</td>
<td>Small Headphones</td>
<td>Low-Pass Filter</td>
<td>Mobile Mount</td>
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<td>Hand Microphone</td>
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### Mobile

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<td>16 Keys Microphone (8-pin)</td>
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*Amateur Radio products software download website
http://www.kenwood.com/i/products/info/amateur/software_download.html*
**Portable**

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<th>TH-K20A/K40A</th>
<th>TH-255A</th>
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<tbody>
<tr>
<td>Li-ion Battery (7.4V/1130mAh)</td>
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<td>Li-ion Battery (7.4V/1800mAh)</td>
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<td>Li-ion Battery (7.4V/2000mAh)</td>
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<td>Ni-MH Battery (7.2V/1500mAh)</td>
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<td>Alkaline Battery Case (AAA x 6)</td>
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<tr>
<th>Model</th>
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<tbody>
<tr>
<td>EMC-3</td>
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<tr>
<td>EMC-7</td>
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<td>HMC-3</td>
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<td>KHS-21</td>
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<td>KSC-24</td>
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<td>KSC-3SS</td>
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<tr>
<th>Vehicular Charger Adaptor</th>
<th>DC Power Cable</th>
<th>Filtered Cigarette Lighter Cord</th>
<th>Speaker Microphone</th>
<th>Speaker Microphone</th>
<th>Speaker Microphone</th>
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**UBZ-LJ8**

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<th>Battery Type</th>
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<th>UBC-4</th>
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<td>Ni-MH Battery</td>
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<td>HMC-3</td>
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**Model availability may vary depending on the country or region.**
Specifications are subject to change without notice due to advancements in technology.

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