SERVING THOSE WHO PROTECT AND SERVE™
For more than 30 years, Santa Cruz Gunlocks, LLC has been a proud provider of equipment to the law enforcement community for mounting and securing firearms. We lead the industry in providing effective, easy-to-use gunlocks and accessories, and are constantly improving our products.

As an industry leader, we want to take this opportunity to provide some important information about the appropriate use and intended purposes of gunlocks - in particular, our mounted gunlock solutions.

Our mounting gunlock solutions serve three main purposes:

1. **Enhanced theft prevention.** In the event that a criminal gains access to the inside of a police vehicle, our mounting solutions provide an extra layer of security to aid in the prevention of misuse or theft of a weapon. While a gunlock and gun rack is not as secure as a gun safe, it is a powerful tool to prevent a weapon from falling into the wrong hands.

2. **Accessibility and ease of deployment.** While providing enhanced security, our solutions also are engineered to allow for rapid deployment of the secured firearm. In the event that the firearm must be deployed in an emergency or other critical situation, it can be done so quickly to provide safety for the officer and the public. In extreme situations, seconds can make a difference between lives lost and lives saved and rapid deployment of a safely secured firearm is critical.

3. **Providing firearm retention during collision.** In the event that an officer is involved in a collision, the gun rack prevents the firearm from becoming a projectile within the vehicle and possibly harming the officer or other vehicle occupants.

Santa Cruz works continuously to engineer our products to optimize accessibility and security. Examples of our long-standing commitment to product improvement include our patented shim protection and other safety features included in the SC-6 handcuff-style lock (which is an improvement to our SC-5 product), as well as our patented magnet protection included with our SC-1 and SC-1-AR clamshell style lock. Santa Cruz considers the safety and security of those who protect and serve as our top priority.

We would be happy to ensure that your department is using the proper fit and best option for your choice of firearm. Please feel free to call and speak with our professional staff at 603-746-7740, Monday through Friday 8am-5pm ET. We look forward to serving you.
SC-920 SERIES

The SC-920 series is quickly becoming one of our most popular platforms available. Its versatile and modular nature allows the end user to build the systems to meet their specific needs.

- The SC-9302 hinge creates the space needed to utilize a taller optic and works with any lock.

- System can be assembled on a bench for proper fitting prior to installation.

- Can be utilized in a dual set up and purchased with any combination of the gunlocks provided by Santa Cruz Gunlocks.
OTHER SC-920 KITS AVAILABLE

SC-920-AR  SC-920-1  SC-920-B  
SC-920-MR  SC-920-MS  SC-920-KSG
SC-917 RAPID ADJUST SERIES

Thanks to its versatility and ease of adjustment, the SC-917 is the perfect design to accommodate vehicles that will see multiple weapons throughout the day. The SC-6 universal gunlock has an internal set screw which allows the lock to be shifted into different positions. Simply loosen the screw, slide the lock into its new position and tighten it back down. This allows the department to maintain weapon retention for either a patrol rifle or a shotgun all in one kit. The SC-917 platform also has muzzle down capabilities.
SC-934-5-A OVERHEAD RAPID ADJUST SERIES

Similar to the SC-917 series, the SC-934-5-A allows for rapid adjustability using a 24” bar to slide the gunlock to the appropriate position giving the user a platform for a variety of different weapons to be secured on an overhead partition.

SC-934-5-A

SC-934-5-A-K9

The SC-934-5-A-K9 is our K9 version of the rapid-adjust design which allows the SC-6 universal gunlock to slide and lock into any position along the 24” mounting bar. This enables users to quickly adjust the rack to accommodate a variety of firearms in a vehicle equipped with a K-9 insert.
SC-929 SERIES

The SC-929 is supplied with roll bar mounting bases and U-bolts to allow application to the existing roll bar. These systems can be purchased with any of the gunlocks offered by Santa Cruz Gunlocks. The locks can be adjusted along the rail independently from the butt plate for precise fitting. Also, the SC-9302 mounting hinge offers angular adjustments and acts as a spacer for optics mounted onto the firearm.
SC-922 SERIES

Our free standing platform offers a different option for vehicles without a prisoner partition. Systems can be purchased as single or dual units. Single units can be modified at anytime to a dual unit by simply adding another rail system to the existing base.

SC-922-D-5-5 Dual Kit
SC-1, SC-1-AR GUNLOCKS

Our SC-1 shotgun lock is made to secure a standard pump shotgun directly behind the pump action. The clam shell style lock is extremely durable and can remain functional for years of daily use. If your pump shotgun is a tactical version, and the SC-1 does not offer a proper fit, you may want to consider using SC-1B barrel lock version to secure the shotgun around the barrel. The SC-1B clam shell style barrel lock can be fit to secure a shotgun with our SC-1201 aluminum insert or secure a rifle by adding the SC-1201-B to the aluminum insert for a snug fit.

The SC-1-AR is our larger version of the clam shell style lock. It remains very popular with many Law Enforcement departments. The SC-1-AR comes equipped with an aluminum plate that allows for adjustment of height and angle and can secure AR style rifles and Semi-Automatic shotguns alike. Similar to the SC-1 in its durability, these locks find their way into several vehicles over years of use making them a sensible and economical choice.
PATENTED SANTA CRUZ MAGNET SHIELD

INCREASES SECURITY LEVEL OF CLAM SHELL STYLE GUNLOCK
Shields against magnetic tampering & unauthorized opening attempts

Direct bolt on solution, no drilling or other modifications needed • Installs in seconds • Works with any gun rack • Fixes common security problem • Versions available for both AR & shotgun style gunlocks • Compatible with virtually all clam shell style gunlocks.
NEW FEATURES

Barrel or Buffer Tube insert
Hook & Groove Design
Anti-Shim Star Wheel
Solenoid

SC-6 GUNLOCK

Patented cog design shields latching mechanism from attempts at “shimming”.

Anti-shim Star Wheel:
5 Different Key Options Available

Patented three tooth pawl provides strengthened locking action during forced opening attempts.

Extending Pawl:
Versatility:

MIN
MAX

SC-6060

Gain additional versatility with the durable SC-6060 Thermal Plastic Elastomer insert designed specifically for securing the barrel or buffer tube of your firearm.

Adjustability in locking diameter allows the SC-6 to secure patrol rifles, pump shotguns, semi-auto shotguns, and a wide range of tools and specialty firearms.

Forced opening tests show the SC-6 can withstand over 1900 ft·lb of force.

Next generation solenoid cannot be opened with a 9V battery.

Connection between the stainless steel hook in the lock body and the stainless steel ratchet arm ensure lock cannot be ripped open with manual force.
SC-6 FEATURES

Anti-shim Star Wheel
Patented cog design shields latching mechanism from attempts at “shimming”.

Barrel & Buffer Tube insert
Gain additional versatility with the durable SC-6060 Thermal Plastic Elastomer insert designed specifically for securing the barrel or buffer tube of your firearm.

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Connection between the stainless steel hook in the lock body and the stainless steel ratchet arm ensure lock cannot be ripped open with manual force. Forced opening tests show the SC-6 can withstand over 1900 ft-lb of force.

Versatility
Adjustability in locking diameter allows the SC-6 to secure patrol rifles, pump shotguns, semi-auto shotguns, and a wide range of tools and specialty firearms.

Extending Pawl
Patented three tooth pawl provides strengthened locking action during forced opening attempts.

Solenoid
The next generation solenoid cannot be opened with a 9V battery.

5 Different Key Options Available.
Taking one of our most versatile and popular systems and offering this with RFID technology opens the door to securing your patrol rifle or shotgun in a secured area within the walls of your police department. By adding a power converter you are able to access the firearm with a numerical code or key fob. This system can be purchased to accommodate any number of firearms being secured where space allows. Be it single systems or a room dedicated to a large number of firearms we can help you custom configure a system to meet your specific needs.
SC-CAS CUSTOM ARMORY RACK SYSTEM

We have recently begun to offer our Custom Armory Rack System to departments and agencies that are looking for added long gun security to their stations or facilities. These systems can be built to meet the end users specific needs for weapon security. Whether it is the number of rifles or shotguns to be mounted or the manner in which they are secured, there is a solution for most situations. The SC-CAS can be used manually or converted from the 12 volt configuration to a 120 volt system. The systems can also be used with an RFID keypad offering key fob or badge access capabilities. Call our customer service department for more information and Custom Armory Rack System quoting. Custom Armory Rack Systems will be shipped in components and will be completely unassembled.
The SC-934-5-A-MTL is our trunk lid version of the rapid adjust SC-934-5-A overhead system. The modified roll bar base and short bar pinch the metal trunk lid ribs reinforcing the strength of the sheet metal. This version of the rapid adjust platform offers a universal option to securing shotguns and rifles to the trunk lid itself.
SC-931 SERIES

The SC-931 series offers an alternative mounting option for vehicles without a partition wall or with limited space available for a more traditional mount. Popular as a passenger side floor mount or in the rear cargo area of an SUV. The system can be configured for both a rifle or a shotgun and can be purchased with any Santa Cruz Gunlock available.
AVAILABLE ACCESSORIES

SC-512
short cross bar

SC-931LB
90 Degree Angle Bracket

SC-401
Muzzle Down
Upright Bracket

SC-9222
Free Standing Base

SC-503
24” Slide Bar

SC-502
18” Slide Bar
SC-9302  Mounting Hinge
SC-9903  L-Bracket
SC-9906  U-Bolt

SC-92361  Universal Rail Base
SC-92362  Dual Universal Rail Base
SC-932    Roll Bar Mounting Base
SC-5301   Universal Rail Nut

SC-9236   36” Universal Rail
SC-9230   30” Universal Rail
AVAILABLE ACCESSORIES

**SC-6060**  
Rubber Insert for SC-6

**SC-1201**  
Insert for SC-1

**SC-1201-B**  
Rubber Insert for SC-1

**SC-TGR-AR15**  
Trigger Guard for AR15

**SC-TGR-SG**  
Trigger Guard for Shotgun

**SC-1900**  
Adjustable Steel Butt Plate

**SC-1901**  
Aluminum Solid Butt Plate
SC-404
Muzzle Plug

SC-9311
Muzzle Cup

SC-403
L Muzzle Plate

SC-9303
Flat Muzzle Plate

SC-7009-A
Adjustable Timer

SC-1902
Push Button Switch

SC-SK2
RFID Reader

SC-SK500
RFID Reader
SC-924 SERIES

Our SC-924 is designed to secure a firearm overhead in a vehicle that is not equipped with a partition wall or prisoner cage. The unit is universal in nature and can be secured in a variety of vehicles utilizing the grab handle locations or in some cases the coat hanger hooks. This system can be purchased with any of the gunlocks provided by Santa Cruz Gunlocks and can also be assembled as a dual unit.
SC-929-K9 UNIVERSAL RAIL SERIES

The SC-929-5-K9 is a fully adjustable system designed for application in vehicles with a K-9 insert. This is the preferred choice for a K-9 officer who carries a firearm equipped with optics. This series works with all varieties of Santa Cruz Gunlocks.
“One of the companies I’ve had the best experience with and the longest-term experience with is Santa Cruz. I’ve been using their mounts in police vehicles for 25 years. I had the opportunity to work with them on several occasions outfitting new cars and retrofitting old cars. They make a very, very high quality product that they stand behind.”

John Chapman, LMS Defense

“I’ve been working with police gunlocks for 24 years now, and I have never seen anything that’s as adaptable as this. I can run everything from an 870 to a differently configured M16, to an AK, to just about anything you can think of. So far it’s the only rack we’ve ever seen that we can fit everything from an Eotech, to a T1, to a Comp M4 from the Aimpoint line, and it will clear wherever your rack is. And again, just about any configuration of an AR-15, M16 or an M4 pattern weapon, you will be able to mount regardless of your accessories. The versatility is just unmatched. Just about anything you can think of will work with this system it is universal in nature, and it is the model SC-5 that we use and we couldn’t be happier.”

Mike Jones, Alliance Police Department

“Santa Cruz is an easy company to work with, they make top quality equipment and we’re very satisfied with our connection with them over the years. I would use no other”

Pat Rogers, EAG Tactical

“My Police Tahoe got broken into a few days ago and I’m happy to report that they weren’t able to get my rifle (AR15). They bent the rack and pried on the locking mechanism but no luck on getting the rifle!!! Just wanted to let you know that your product worked and I appreciate it!!! Thanks!”

Chief Dorsey

Santa Cruz Gunlocks LLC. 450 Tyler Road • Webster, NH 03303 USA
General phone: (603) 746-7740 • Order phone: (800) 847-5428 • Fax: (603) 746-7764
E-mail: info@santacruzgunlocks.com • Web: www.santacruzgunlocks.com
Options

Cable: Cable 15'
Cable Hole Exit: Passenger's Side
Mounting: Adjustable Mounting Kit
DOT Strip: No
Photo Cell: No
Solar Panel: No
Central Node: Z3

Special Instructions

None

Notes:
Mass. Covert Light Bar

Description:
4 Amber/Blue TR16 | 10 Blue/White TR16 | 2 Red/Amber TR16 | 2 Blue/White Worklamps

Reference: 79770
Date: 8/11/2021

Series/Length: Covert - Matrix, 52.0" [1320 mm]
SL Running Lights

Expanded offering of lengths and now available in single, dual and dual/split (RBW).

Features

- Prime applications include rocker panels, push bumpers, tailgates and headache racks
- Distributes exceptional profile visibility to dangerous intersections
- Compact extruded aluminum housing is visually inconspicuous and weather resistant
- Orderable with vehicle-specific brackets and screws for easy installation; brackets sold separately
- 5-year warranty

Specs

- **INPUT VOLTAGE**: 10-30 Vdc
- **CURRENT DRAW**: 0.58 Amp @ 12.8 vdc
- **LEDs**: 12 LEDs per module
- **FLASH PATTERNS**: Up to 69 flash patterns
- **OPERATING TEMPERATURE**: -40° C to +65° C / -40° F to +149° F

DIMENSIONS

<table>
<thead>
<tr>
<th>Lengths</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>15&quot; (38.1 cm), 50&quot; (127 cm), 61.4&quot; (15.6 cm), 72.8&quot; (184.9 cm)</td>
<td>1.09&quot; (2.76 cm) (all lengths)</td>
<td>.75&quot; (1.9 cm) (all lengths)</td>
</tr>
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</table>

MOUNTING

Bracket mount; brackets sold separately

Standard Lead Time

no minimum order qty

<table>
<thead>
<tr>
<th>Part Number</th>
<th>15&quot; (1 module)</th>
<th>Part Number</th>
<th>61.4&quot; (5 modules)</th>
<th>Part Number</th>
<th>72.6&quot; (6 modules)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESLRL501F</td>
<td>Dual color, Amber/Clear</td>
<td>ESLRL6105F</td>
<td>Dual color, Amber/Clear</td>
<td>ESLRL7306F</td>
<td>Dual color, Amber/Clear</td>
</tr>
<tr>
<td>ESLRL501E</td>
<td>Dual color, Blue/Clear</td>
<td>ESLRL6105E</td>
<td>Dual color, Blue/Clear</td>
<td>ESLRL7306E</td>
<td>Dual color, Blue/Clear</td>
</tr>
<tr>
<td>ESLRL501D</td>
<td>Dual color, Red/Clear</td>
<td>ESLRL6105D</td>
<td>Dual color, Red/Clear</td>
<td>ESLRL7306D</td>
<td>Dual color, Red/Clear</td>
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</tbody>
</table>

Extended Lead Time

minimum order qty of 20

<table>
<thead>
<tr>
<th>Part Number</th>
<th>15&quot; (1 module)</th>
<th>Part Number</th>
<th>30&quot; (4 modules)</th>
<th>Part Number</th>
<th>61.4&quot; (5 modules)</th>
<th>Part Number</th>
<th>72.8&quot; (6 modules)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESLRL501A</td>
<td>Single color, Amber</td>
<td>ESLRL5004A</td>
<td>Single color, Amber</td>
<td>ESLRL6105A</td>
<td>Single color, Amber</td>
<td>ESLRL7306A</td>
<td>Single color, Amber</td>
</tr>
<tr>
<td>ESLRL501B</td>
<td>Single color, Blue</td>
<td>ESLRL5004B</td>
<td>Single color, Blue</td>
<td>ESLRL6105B</td>
<td>Single color, Blue</td>
<td>ESLRL7306B</td>
<td>Single color, Blue</td>
</tr>
<tr>
<td>ESLRL501W</td>
<td>Single color, Clear</td>
<td>ESLRL5004F</td>
<td>Dual color, Amber/Clear</td>
<td>ESLRL6105J</td>
<td>Dual color, Red/Blue</td>
<td>ESLRL7306J</td>
<td>Dual color, Red/Blue</td>
</tr>
<tr>
<td>ESLRL501J</td>
<td>Dual color, Red/Blue</td>
<td>ESLRL5004J</td>
<td>Dual color, Red/Blue</td>
<td>ESLRL6105I</td>
<td>Dual color, Red/Blue</td>
<td>ESLRL7306I</td>
<td>Dual color, Red/Blue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ESLRL5004G</td>
<td>Tri-color, Red/Blue/Clear</td>
<td>ESLRL6105G</td>
<td>Dual color, Blue/Clear</td>
<td>ESLRL7306G</td>
<td>Dual color, Blue/Clear</td>
</tr>
</tbody>
</table>

Contact your sales representative for further details.

PO Box 206 / 3900 Central Parkway
Hudsonville, MI 49426

800.338.7337 / 616.896.7100
Fax 616.896.1226 / Order fax 616.896.1286

ECN 6292
FEATURE HIGHLIGHTS
- Speaker microphone with full-featured control head
- Handheld design offers one-handed operation of PTT, volume and channel selection
- Designed to work with the NX-5000 Series mobile radios using Control Head Remote Kit
- Intuitive operation similar to that of the KCH-19 and KCH-20R control heads

AUDIO FEATURES
- Built-in speaker with 1 W output
- Active noise reduction for a single microphone enabled by DSP on the radio
- 3.5mm-diameter earphone jack on the bottom

DISPLAY FEATURES
- Large 1.74-inch TFT/transflective LCD for at-a-glance operational status checking
- Intuitive GUI – 14-character full-color display with 5 lines for menus and icons
- 7-color programmable LED located at the top for easy recognition

OTHER FEATURES
- Multi-head/Multi-deck Configuration
- Built-in Bluetooth® with HSP (headset) and SPP (serial port) profiles
- Data interface for radio programming, keyloading and data I/O
- Optional adapter for the RF Deck (KRK-15BM Control Head Remote Kit) is required for connection to the mobile radio

MULTIPLE REMOTE CONTROL HEAD CONFIGURATION
Intuitive graphical UI is used even for the selection of multiple RF decks.
- Dual Remote Control Heads x Multi RF Decks
- Dual Remote Control Heads x Single RF Deck
Keys on the Panel (All keys except for Power and PTT are programmable)

1. Power
2. Customize A, B
3. PTT
4. Side 1, 2, 3
5. 4-way D-Pad
6. Menu
7. Back
8. Function
9. Home
10. DTMF Keypad
11. Orange Key
12. Side Up, Down

Connection & Cabling

Connecting the HANDHELD CONTROL HEAD to the CONTROL HEAD REMOTE KIT (KRK-15B) via the CONNECTION CABLE (KCT-77): Because the connection cables are long enough, flexible cabling is enabled to remote control the vehicle-mount RF deck even from the outside of the vehicle.

Main Specifications

KENWOOD USA Corporation
Communications Sector Headquarters
3970 John Creek Court, Suite 100, Suwanee, GA 30024-1265
Order Administration/Distribution
P.O. BOX 2745, 2201 (all Dominguez St., Long Beach, CA 90801-2745
www.kenwood.com/usa

KENWOOD Canada Inc.
Canadian Headquarters and Distribution
6076 Kesten Road, Mississauga, Ontario, Canada L5T 1S8
www.kenwood.com/ca

Specifications are subject to change without notice, due to advancements in technology.
Nokia is a trademark of JVCKENWOOD Corporation and Icom Inc.
The Bluetooth word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc.
All other trademarks are the property of their respective holders.
The adaptable mobile radio supports both NXDN® and DMR digital protocols as well as mixed digital & FM analog operation, enabling it to serve with distinction in a wide range of enterprise and operation critical applications. Designed with flexibility in mind, it's packed with convenient features like Bluetooth® for hands-free operation and built-in GPS. And providing greater freedom of installation, the radio's front panel can be used as a remote control head (this requires an optional upgrade, to be available in the future). Additionally, for expansion capability a software license certification system facilitates extensive customization.

**FEATURE HIGHLIGHTS**
- Multi-protocol digital radio: Designed to operate NXDN® or DMR digital, and FM analog protocols
- NXDN® Conventional and Type-C & Gen2 Trunking
- DMR Tier II & Site Roaming
- Mixed Digital & FM Analog Operation allows gradual migration at your own pace
- 4-Line Basic Frame (2-Line Main/Sub-LCD, icon & key guide) / 14 Characters
- 4-Line Text Message Frame (2 Lines of Text, icon & key guide) Note: The number of lines may vary depending on the display language (character set).
- 7-color LED indicator
- External and Internal Speaker Switching
- Built-in GPS Receiver for effective fleet management
- Built-in Bluetooth® for hands-free operation - Applicable Bluetooth profiles: HSP (Headset Profile provided) and SPP (Serial Port Profile available as an option; availability depends on the model)
- Renowned KENWOOD Audio Quality can be achieved with Active Noise Reduction (ANR) that utilizes built-in DSP
- Software DES and AES Encryptions for NXDN Conventional/Trunking and DMR Conventional protocols
- MIL-STD-810 C/D/E/F/G

**GENERAL FEATURES**
- Audio Output Power (4 Watts at 4 ohms)
- 512 Ch/128 Zones
- Maximum of 1000 CH/Radio with option
- Paging Call
- Emergency Call
- Status/Text Message
- Remote Stun/Kill/Check

**DIGITAL – DMR MODE**
- Complies with ETSI DMR Tier II standards
- Two-slot TDMA in 12.5 kHz channels
- Call Interruption
- Dual-slot Direct Mode
- ARC4 Encryption
- Energy Efficient

**ANALOG – FM MODES**
- Conventional & LTR Trunking
- FleetSyncII: PTT ID ANI / Caller ID Display, Selective Group Call, Emergency Status / Text Messages
- MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit
- QT / DQT, 2-Tone
- Built-in Voice Inversion Scrambler
## Main Specifications

<table>
<thead>
<tr>
<th>Option</th>
<th>NX-3720HG</th>
<th>NX-3820HG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency Range</td>
<td>136-174 MHz Type 1</td>
<td>450-520 MHz Type 2</td>
</tr>
<tr>
<td>Frequency Stability</td>
<td>±0.5 ppm (±0.2 ppm)</td>
<td>±0.5 ppm (±0.2 ppm)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>6.30 x 1.69 x 6.30 in (160 x 43 x 160 mm)</td>
<td>6.30 x 1.69 x 6.30 in (160 x 43 x 160 mm)</td>
</tr>
<tr>
<td>Weight (net)</td>
<td>2.65 lbs (1.2 kg)</td>
<td>2.65 lbs (1.2 kg)</td>
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### Receiver Specifications

<table>
<thead>
<tr>
<th>Option</th>
<th>NX-3720HG</th>
<th>NX-3820HG</th>
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</thead>
<tbody>
<tr>
<td><strong>Sensitivity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analog @ 25 kHz</td>
<td>0.25 µV</td>
<td>0.25 µV</td>
</tr>
<tr>
<td>Analog (12dB SINAD)</td>
<td>0.25 µV</td>
<td>0.25 µV</td>
</tr>
<tr>
<td>Spurious Emission</td>
<td>-75 dB</td>
<td>-75 dB</td>
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### Transmitter Specifications

<table>
<thead>
<tr>
<th>Option</th>
<th>NX-3720HG</th>
<th>NX-3820HG</th>
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</thead>
<tbody>
<tr>
<td><strong>Spurious Emission</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analog @ 25 kHz</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td>Analog @ 12.5 kHz</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Audio Distortion</strong></td>
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<td></td>
</tr>
<tr>
<td>Analog @ 12.5 kHz</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td>Analog @ 25 kHz</td>
<td>2%</td>
<td>2%</td>
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### Applicable MIL-STD & IP

<table>
<thead>
<tr>
<th>MIL Standard</th>
<th>MIL 810C Methods/Procedures</th>
<th>MIL 810D Methods/Procedures</th>
<th>MIL 810E Methods/Procedures</th>
<th>MIL 810F Methods/Procedures</th>
<th>MIL 810G Methods/Procedures</th>
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</thead>
<tbody>
<tr>
<td>Dust</td>
<td>510.1, Procedure I</td>
<td>510.2, Procedure I</td>
<td>510.3, Procedure I</td>
<td>510.4, Procedure I</td>
<td>510.5, Procedure I</td>
</tr>
<tr>
<td>Vibration</td>
<td>514.1, Procedure I, II</td>
<td>514.2, Procedure I</td>
<td>514.3, Procedure I</td>
<td>514.4, Procedure I</td>
<td>514.5, Procedure I</td>
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<tr>
<td>Shock</td>
<td>516.1, Procedure I, II, III</td>
<td>516.2, Procedure I</td>
<td>516.3, Procedure I</td>
<td>516.4, Procedure I</td>
<td>516.5, Procedure I</td>
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<tr>
<td><strong>International Protection Standard</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dust &amp; Water*</td>
<td>IP54 (Radio unit itself)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Microphone KMC-35 or KMC-36 must be connected to the radio, and all accessory connectors must be covered.

---

**Note:** Analog measurements made per EN Standards or TIA 603 and specifications shown are typical. *25 and 30 kHz are not included in the models sold in the USA or US territories.

---

**Microphone KMC-35 or KMC-36 must be connected to the radio, and all accessory connectors must be covered.**

---

**Contact an authorized Kenwood dealer for details and complete list of all accessories and options.**

---

**FleetSync® is a registered trademark of JVCKENWOOD Corporation.**

---

**NXDN® is a trademark of JVCKENWOOD Corporation and Icom Inc.**

---

**The Bluetooth word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc.**

---

**KPS-15 DC Power Supply (23A max) is a trademark of JVCKENWOOD Corporation.**

---

**KMB-34 Mounting Case for KPS-15**

---

**KPG-180AP OTP Manager**

---

**All accessories and options may not be available in all markets.**

---

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**JVCKENWOOD Canada Inc.**
Canadian Headquarters and Distribution
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8
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**ISO 9001 Registered**
KV2000 Corporation (GA-106)
NX-5600HB
VHF LOW BAND DIGITAL TRANSCEIVER

The NX-5600HB is a 110-watt mobile transceiver that supports NXDN digital protocol and FM analog for mixed operation. This high-power VHF Low Band RF deck – equipped with Bluetooth®, GPS and a memory card slot – requires one of several optional remote control heads, all of which offer an intuitive controls for easy operation. The versatile NX-5600HB can be combined with other RF decks and multiple remote control heads to create a radio system that is tailored to your specific needs, thanks to a wide selection of accessories.

*Note that the NX-5600HB mobile series only supports NXDN 12.5 kHz Conventional digital CAI; P25, DMR, NXDN Trunked digital CAIs and NXDN 6.25 kHz channel spacing mode are not supported.

**Features**

- VHF Low Band 39 MHz to 50 MHz
- RF output power: 110 W to 25 W
- Multi RF Deck with VHF Low band / VHF High band, UHF / 700 & 800 MHz combination
- Mixed Digital & FM Analog Operation allows gradual migration
- Variety of Optional Remote Control Heads (Note: NX-5600HB is remote operation only)
  - Dual Remote Control Head and Multi-band (Multi RF deck) capable options
  - Easy-to-follow controls and Information Conveying Multi-line Text are built into each control head
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- Built-in GPS Receiver for effective fleet management
- Built-in Bluetooth 4.0 for hands-free operation
- USB Micro-Terminal (up to 12 Mbps)
  - PC Programming & Internal microSD Access (Requires USB driver for PC)
- Renowned KENWOOD Audio Quality can be achieved with Active Noise Reduction that utilizes built-in DSP for suppression of ambient noise
- microSD / microSDHC (Up to 2GB / 32GB) Memory Card Slot for increased memory capacity for "Voice & Data"
- DB-25 & Molex 9-pin Accessory Connector
- 12 W Audio Output
- IP54 / 55 and MIL-STD-810 C/D/E/F/G

**Digital – NXDN® Mode**

- NXDN Conventional Operation
- Built-in 56-bit DES encryption
- Optional 256-bit AES encryption
- AMBE+2™ Enhanced Vocoder
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun / Kill
- Remote Check
- Short & Long Data Messages
- NXDN Digital Scrambler Included

**FM Modes - General**

- FM Analog Conventional Operation
- FleetSync® I / II: PTT ID ANI / Caller ID Display, Selective / Group Call, Emergency Status / Text Messages
- MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit
- QT / DQT & Two-Tone
- Built-in Voice Inversion Scrambler
- Noise Blanker

**Multiple Configurations**

The NX-5000 mobile series allows users to create a variety of configurations to suit different requirements by combining different options. Some of the standard configurations are:

- Single Remote Control Head x Single RF Deck
- Dual Remote Control Head x Single RF Deck
- Dual Remote Control Head x Multi RF Decks

Other combinations are available. Consult your local KENWOOD dealer for more.
Specifications

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KCH-20R</td>
<td>Featured Control Head</td>
</tr>
<tr>
<td>KCH-19</td>
<td>Basic Control Head</td>
</tr>
<tr>
<td>KCT-21RM</td>
<td>Handheld Control Head</td>
</tr>
<tr>
<td>KCT-72</td>
<td>External Accessory Connection Cable for the KCH-19/20R</td>
</tr>
<tr>
<td>KES-5A</td>
<td>External Speaker (40 W max input)</td>
</tr>
<tr>
<td>KMB-36</td>
<td>Mounting Bracket</td>
</tr>
<tr>
<td>KPG-180AP</td>
<td>OTAP Manager</td>
</tr>
<tr>
<td>KRA-40G</td>
<td>GPS Active Antenna</td>
</tr>
<tr>
<td>KPG-180AP</td>
<td>OTAP Manager</td>
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<td>OTAP Manager</td>
</tr>
<tr>
<td>KRA-40G</td>
<td>GPS Active Antenna</td>
</tr>
</tbody>
</table>

Accessories

- KCT-18 Receiver
- NX-5600HB RF Deck
- KCH-21RM Handheld Control Head
- KCT-72 External Accessory Connection Cable for the KCH-19/20R
- KES-5A External Speaker (40 W max input)
- KMB-36 Mounting Bracket
- KPG-180AP OTAP Manager
- KRA-40G GPS Active Antenna

Contact an authorized Kenwood dealer for details and complete list of all accessories. All accessories may not be available in all markets.

MIL-STD & IP

<table>
<thead>
<tr>
<th>MIL Standard</th>
<th>MIL-R-810C Methods/Procedures</th>
<th>MIL-R-810G Methods/Procedures</th>
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<td>5002/Procedure II</td>
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<td>5004/Procedure I</td>
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<tr>
<td>Low Temperature</td>
<td>5003/Procedure I</td>
<td>5004/Procedure II</td>
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<td>High Temperature</td>
<td>5006/Procedure I</td>
<td>5007/Procedure II</td>
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<tr>
<td>Temperature Shock</td>
<td>5005/Procedure I</td>
<td>5004/Procedure II</td>
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<tr>
<td>Solar Radiation</td>
<td>5004/Procedure I</td>
<td>5005/Procedure II</td>
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<td>Rain</td>
<td>5004/Procedure I</td>
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<tr>
<td>Humidity</td>
<td>5008/Procedure I</td>
<td>5009/Procedure II</td>
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<tr>
<td>Salt Fog</td>
<td>5004/Procedure I</td>
<td>5005/Procedure II</td>
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<td>Dust</td>
<td>5004/Procedure I</td>
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<tr>
<td>Shock</td>
<td>5142/Procedure I</td>
<td>5143/Procedure II</td>
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</tbody>
</table>

International Protection Standard

- IP54/55

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JVC KENWOOD Canada Inc.
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VHF/UHF/700-800MHz MULTI-PROTOCOL DIGITAL & ANALOG MOBILE RADIOS

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. A 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.

**FEATURES**

- Multi-Digital operation in NXDN, DMR, and P25 (Phase 1 & 2) protocols
- Any combination of two digital protocols may be selected from NXDN, DMR, and P25
- Mixed Digital & FM Analog Operation allows intelligent migration in mixed sites and easy migration with digital radios in other sites
- Large, Color 2.55" (154 x 422 pixels) TFT Display for at-a-glance operational status
- Easy to follow GUI and Multi-line Text to convey information
- Dual Remote Control Head and Multi-Band (Multi RF Deck) Control Option providing scalable configurations for various operations and applications
- Built-in GPS Receiver for effective fleet management
- Bluetooth® Module Built-in for hands-free operation
- Renowned KENWOOD Audio Quality achieved with Active Noise Reduction (ANR) that utilizes built-in DSP with two microphones for suppression of ambient noise
- Built-in 56-bit DES Encryption
- Optional 256-bit AES Encryption
- microSD/microSDHC Up to 2GB/32GB Memory Card Slot for increased memory capacity for "Voice & Data"
- 50 W to 5 W (136-174 MHz) Models
- 45 W to 5 W (380-470, 450-520 MHz) Models
- 30 W to 2 W (700 MHz) Model 35 W to 2 W (800 MHz) Model
- Maximum of 1024 CH/Zone, 128 Zones (4000 CH. Opt)
- DB-25 Accessory Connector
- AMBIG™ Enhanced Vocoder
- 4 W Speaker Audio

**DIGITAL – NXDN® MODE**

- Gen2 & NXDN Type-C Trunked Operation
- NXDN Conventional Operation
- 6.25 & 12.5 kHz Channel Spacing
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun/Kill
- Remote Check
- Short & Long Data Messages
- NXDN Digital Scrambler Included

**DIGITAL – DMR MODE**

- Complies with ETSI DMR Tier II standards
- Two-slot TDMA in 12.5kHz channels
- Call Interruption
- Dual-slot Direct Mode
- Energy Efficient

**DIGITAL – P25 MODE**

- P25 Phase 1 Conventional/Trunked Operation
- P25 Phase 2 Trunked Operation
- Talk Group ID Lists

**FM MODES – GENERAL**

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

**MULTIPLE CONFIGURATIONS**

The NX-5000 mobile series allows users to create a variety of configurations to suit different requirements by combining different options. Some of the standard configurations are:

- Single Remote Control Head x Single RF Deck
- Dual Remote Control Heads x Single RF Deck
- Dual Remote Control Heads x Multi RF Decks
- Other combinations are available. Consult your local KENWOOD dealer for more.

Unsurpassed interoperability for Public Safety and Enterprise radio users with the freedom to migrate at your own pace.

Scalable server-based system architecture for management of NEXEDGE wide area digital communications systems.

The ultimate level of sound clarity technology combining Optimization, advanced Sound Analysis and Active Noise Reduction.


**Specifications**

**GENERAL**

<table>
<thead>
<tr>
<th></th>
<th>NX-5700</th>
<th>NX-5800</th>
<th>NX-5900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>136-174 MHz</td>
<td>Type 1 450-520 MHz</td>
<td>Type 2 380-470 MHz</td>
</tr>
<tr>
<td></td>
<td>RX: 763-776, 806-825 MHz</td>
<td>TX: 763-776, 793-806 MHz</td>
<td></td>
</tr>
<tr>
<td>Max. Channels Per Radio</td>
<td>1024 Up to 4000 CH with option</td>
<td>128</td>
<td></td>
</tr>
<tr>
<td>Number of Zones</td>
<td>512</td>
<td>128</td>
<td>512</td>
</tr>
<tr>
<td>Channel Spacing</td>
<td>12.5/15/25/30 kHz</td>
<td>Analog 12.5/25 kHz</td>
<td>Digital 6.25 kHz</td>
</tr>
<tr>
<td></td>
<td>6.25/12.5 kHz</td>
<td>6.25/12.5 kHz</td>
<td>6.25/12.5 kHz</td>
</tr>
<tr>
<td>Power Supply</td>
<td>13.6 V DC ±15%</td>
<td>6.69 x 1.89 x 6.93 in.</td>
<td>6.73 x 1.89 x 7.22 in.</td>
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</table>

**RECEIVER**

<table>
<thead>
<tr>
<th></th>
<th>NX-5700</th>
<th>NX-5800</th>
<th>NX-5900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>0.20 µV</td>
<td>0.25 µV</td>
<td>0.25 µV</td>
</tr>
<tr>
<td>EDMR Digital (5% BER)</td>
<td>0.1 µV</td>
<td>0.1 µV</td>
<td>0.1 µV</td>
</tr>
<tr>
<td>Transition</td>
<td>4 W 5 W 5 W 30 W 2 W 5 W</td>
<td>4 W 5 W 5 W 30 W 2 W 5 W</td>
<td></td>
</tr>
<tr>
<td>Spurious Emission</td>
<td>73 dB</td>
<td>75 dB</td>
<td>80 dB</td>
</tr>
<tr>
<td>FM Hum &amp; Noise</td>
<td>45 dB</td>
<td>45 dB</td>
<td>45 dB</td>
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<tr>
<td>Audio Distortion</td>
<td>50 dB</td>
<td>50 dB</td>
<td>50 dB</td>
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**MIL-STD & IP**

<table>
<thead>
<tr>
<th></th>
<th>NX-5700</th>
<th>NX-5800</th>
<th>NX-5900</th>
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</thead>
<tbody>
<tr>
<td>Low Pressure</td>
<td>500.1 Procedure I</td>
<td>500.2 Procedure I</td>
<td>500.3 Procedure I</td>
</tr>
<tr>
<td>High Temperature</td>
<td>501.1 Procedure I</td>
<td>501.2 Procedure I</td>
<td>501.3 Procedure I</td>
</tr>
<tr>
<td>Low Temperature</td>
<td>502.1 Procedure I</td>
<td>502.2 Procedure I</td>
<td>502.3 Procedure I</td>
</tr>
<tr>
<td>Solar Radiation</td>
<td>503.1 Procedure I</td>
<td>503.2 Procedure I</td>
<td>503.3 Procedure I</td>
</tr>
<tr>
<td>Rain</td>
<td>506.1 Procedure I</td>
<td>506.2 Procedure I</td>
<td>506.3 Procedure I</td>
</tr>
<tr>
<td>Humidity</td>
<td>507.1 Procedure I</td>
<td>507.2 Procedure I</td>
<td>507.3 Procedure I</td>
</tr>
<tr>
<td>Salt Fog</td>
<td>509.1 Procedure I</td>
<td>509.2 Procedure I</td>
<td>509.3 Procedure I</td>
</tr>
<tr>
<td>Dust</td>
<td>510.1 Procedure I</td>
<td>510.2 Procedure I</td>
<td>510.3 Procedure I</td>
</tr>
<tr>
<td>Vibration</td>
<td>514.2 Procedure I</td>
<td>514.3 Procedure I</td>
<td>514.4 Procedure I</td>
</tr>
<tr>
<td>Shock</td>
<td>516.2 Procedure I</td>
<td>516.3 Procedure I</td>
<td>516.4 Procedure I</td>
</tr>
</tbody>
</table>

**Accessories**

- NX-5700B/5800B/5900B
- RF Deck
- KC-19 Basic Control Head Kit
- KCH-20R Featured Control Head
- KRK-21RM Handheld Control Head
- KRK-14H Control Head Interface Kit (Adapter for the Head)
- KRK-158 Control Head Remote Kit (Adapter for the RF Deck)
- KCT-71 Remote Control Cable (available in 3 lengths of 1.7 ft (5.2m), 2.5 ft (7.6m), 1.6 ft (0.5m))
- KCT-72 Remote Control Cable
- KWD-AE30/AE31 Secure Cryptographic Module
- KPG-180AP OTP Manager
- KMC-35 Microphone
- KMC-36 Keypad Microphone
- KES-35 External Speaker (compact low profile; 3.5 mm plug)
- KES-5 External Speaker (40 W max input, requires KAP-2)
- KCT-23 DC Power Cable M: 108 (3m) / M: 33ft (10m)
- KCT-46 Ignition Sense Cable
- KLF-2 Line Filter
- KMB-10 Key Lock Adapter
- KAP-2 Horn Alert/P.A. Relay Unit
- KRA-40G GPS Active Antenna
- KMB-34 Mounting Case for KPS-15
- KPS-15 DC Power Supply (22A max)

Contact an authorized Kenwood dealer for details and complete list of all accessories.
One NEXEDGE radio, multiple protocols*: the NX-5700HB (110 W) / NX-5800HB (100W) mobile transceivers support NXDN and P25 (Phase 1 & 2) digital protocols, plus FM analog for mixed operation. This high-power RF deck – equipped with Bluetooth®, GPS and a memory card slot – requires one of several optional remote control heads, all of which offer an intuitive controls for easy operation. The versatile NX-5700HB/5800HB can be combined with other RF decks and multiple remote control heads to create a radio system that is tailored to your interoperability requirements.

*Note that, unlike NEXEDGE 50W-class models, the NX-5700HB/5800HB mobile series does not support DMR.
NX-5700B/5800B/5900B
RF Deck

KCH-19
Basic Control Head Kit
- 2.95" Color TFT Display

KCH-20R
Featured Control Head
- 2.75" Color TFT Display
- D-Pad & more PF keys

KCH-21RM
Handheld Control Head

Specifications

**General Specifications**

<table>
<thead>
<tr>
<th>Metric</th>
<th>NX-5700HB</th>
<th>NX-5800HB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>Type 1 - 450-520 MHz</td>
<td>Type 2 - 380-470 MHz</td>
</tr>
<tr>
<td>Number of Zones</td>
<td>27*</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>Digital: 13.6V DC ± 15% Analog: 13.4V DC ± 15%</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-22ºF to +140ºF (-30ºC to +60ºC)</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>7.01 x 2.56 x 13.84 in. (178 x 65 x 351.5 mm.)</td>
<td></td>
</tr>
<tr>
<td>Weight (net)</td>
<td>12.1 lbs (5.5 kg)</td>
<td></td>
</tr>
</tbody>
</table>

**Receiver Specifications**

<table>
<thead>
<tr>
<th>Metric</th>
<th>NX-5700HB</th>
<th>NX-5800HB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>NXR01 Digital (1% BER)</td>
<td>0.5 µV</td>
</tr>
<tr>
<td></td>
<td>NXR02 Digital (1% BER)</td>
<td>0.5 µV</td>
</tr>
<tr>
<td></td>
<td>P25 Digital (1% BER)</td>
<td>0.5 µV</td>
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<tr>
<td></td>
<td>Analog (32 dB S/N)</td>
<td>0.5 µV</td>
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<tr>
<td>Selectivity</td>
<td>Analog at 12.5kHz</td>
<td>71 dB</td>
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<tr>
<td></td>
<td>Analog at 25kHz</td>
<td>81 dB</td>
</tr>
<tr>
<td>Intermodulation</td>
<td>Analog at 25kHz</td>
<td>110 W to 25 W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 W to 25 W</td>
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<tr>
<td>Selectivity</td>
<td>P25 Digital (1% BER)</td>
<td>3%</td>
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<td></td>
<td>NXDN® 6.25 kHz Digital (3% BER)</td>
<td>2%</td>
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<td>Audio Distortion</td>
<td>Analog @ 25kHz</td>
<td>0.20 V μ</td>
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<td></td>
<td></td>
<td>0.40 V μ</td>
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<td>Spurious Emission</td>
<td>Analog @ 25kHz</td>
<td>80 dB</td>
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<td>85 dB</td>
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<td>Spurious Emission</td>
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<td>45 dB</td>
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<td>51 dB</td>
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<tr>
<td>Emission Designator</td>
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<td>500F1E, 500F1D, 500F3W, 500F2D, 500F7W, 500F1E, 500F1D, 500F3W, 500F2D</td>
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</table>

**MIL-STD & IP**

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<td>Salt Spray</td>
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<td>Procedure I</td>
<td>Procedure I</td>
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<td>Shock</td>
<td>Procedure I</td>
<td>Procedure I</td>
<td>Procedure I</td>
<td>Procedure I</td>
</tr>
</tbody>
</table>

**Protection Standards**

- Dust & Water Protection: IP67/IP68

*Notes: All accessories may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories.*
KENWOOD

TK-5720/5820
VHF/UHF FM & P25 Digital Mobile Radio

GENERAL FEATURES
- 50W (136-174 MHz)
- 45W (400-470, 450-520, 380-400*MHz)
- 128 Zones / 512 Channels
- Enhanced Kenwood Audio
- Emergency Features
- Public Address (KAP-2 Required)
- Time Out Timer
- Busy Channel Lockout
- Ignition Sense
- Timed Power Off
- DB-25 & 9-Pin Accessory Connectors
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- Transceiver Password
- Date & 12/24 Hour Time Clock
- KPG-112D/DN Windows® FPU
- Flash Firmware Upgrading
- Easy Option Ports (26-pin)
- Voice Guide & Storage (option)
- MIL-STD-810 C/D/E/F/G
- MIL-STD-810 C/D/E/F/G
- MIL-STD Mic (included)
- MIL-STD 12-Key DTMF Mic Option

FRONT PANELS/CONTROL HEADS
- Dash & Remote Mount
- Dual Control Head Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- RSSI Indicator

FRONT PANELS/CONTROL HEADS Cont.
- Transmit/Busy/Call Alert/Warn LED
- On/Off Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio

P25 DIGITAL
- P25 Digital Conventional
- AMBE+2™ Enhanced VOCODER
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor / Check, Radio Inhibit
- Encryption Key Zeroize and Retention
- DES Encryption Module
- AES & DES Encryption Module
- P25 Digital Trunking Option

SCAN TYPES (FM & P25)
- Single Zone/Multi-Zone Scan
- Scan Lists
- Conventional Scan
- Dual Priority Scan

FM
- QT / DOT
- Operator Selectable Tone
- Two-Tone Decode / Encode
- DTMF Encode / Decode / Stun
- Special Alert Tone Patterns
- Compressed Audio

FleetSync® / II (FM)
- PTT ID Digital ANI
- Caller ID Display
- Status Messaging
- Emergency & Stun Statuses
- Selective & Group Call
- Text Messaging
- Send/Display GPS

MDC-1200
- PTT ID Digital ANI
- Caller ID Display
- Emergency Status
- Radio Check
- Radio Inhibit

*For U.S. federal government & export sales
Specifications are subject to change without notice, due to advancements in technology.

AMBE+2 TM is a trademark of Digital Voice Systems Inc.

**Options**
- **KMC-35**
  - Microphone
- **KMC-36**
  - Microphone with Keypad
- **KMC-9C**
  - Control Station
  - Desktop Microphone
- **KES-5**
  - External Speaker
- **VGS-1**
  - Voice Guide & Storage Unit
- **KRK-10**
  - Panel Remote Kit
- **KKK-13**
  - Dual Control Head Remote Kit
- **KAP-2**
  - Horn Alert/PA Relay Unit
- **KCT-23M**
  - DC Cable (10 feet)
- **KCT-23M3**
  - DC Cable (23 feet)
- **KCT-46**
  - Ignition Sense Cable
- **KLF-2**
  - Line Noise Filter
- **KMB-10**
  - Lock Key Adapter

**Dimensions (W x H x D)(projections not included)**
- **IC Certification**
  - **Type 1**
    - K44378 602
    - 282 F-378 602
  - **Type 2**
    - 400-470 MHz
  - **Type 3**
    - 380-400 MHz

**Operating Temperature Range**
- -22˚ F to +140˚ F (-30° C to +60° C)

**Number of Channels**
- 512

**Frequency Range**
- Type 1
  - 25-125 MHz
  - 12.5 kHz
- Type 2
  - 45-105 MHz
  - 11.5 kHz
- Type 3
  - 50-150 MHz
  - 11.5 kHz

**Audio Distortion**
- Less than 3.0%

**Sensitivity**
- Analog (1 % BER)
  - 0.40 µV
- Digital (1 % BER)
  - 0.25 µV

**Modulation**
- 11KDF3E, 16KDF3E, BK10F1E, BK10F1D

**TRANSMITTER**
- 50 W to 10 W
- 45 W to 10 W

**RECEIVER**
- Sensitivity
  - Digital (5 % BER)
    - 0.25 µV
  - Digital (1 % BER)
    - 0.40 µV
  - Analog 12 dB SNAD
    - 0.25 µV

**Audio Output**
- Less than 3.0%

**Table: Applicable MIL-STD & IP**

<table>
<thead>
<tr>
<th>Standard</th>
<th>MIL 810C Methods/Procedures</th>
<th>MIL 810D Methods/Procedures</th>
<th>MIL 810E Methods/Procedures</th>
<th>MIL 810F Methods/Procedures</th>
<th>MIL 810G Methods/Procedures</th>
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</thead>
<tbody>
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<td>S00, I/Procedure I, II</td>
<td>S00, J/Procedure I, II</td>
<td>S00, I/Procedure I, II</td>
<td>S00, J/Procedure I, II</td>
<td>S00, L/Procedure I, II</td>
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<tr>
<td>High Temperature</td>
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<td>S01, J/Procedure I, II</td>
<td>S01, I/Procedure I, II</td>
<td>S01, J/Procedure I, II</td>
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<td>S02, I/Procedure I, II</td>
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<td>S02, I/Procedure I, II</td>
<td>S02, J/Procedure I, II</td>
<td>S02, J/Procedure I, II</td>
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<td>Temperature Shock</td>
<td>S03, I/Procedure I, II</td>
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<td>S03, I/Procedure I, II</td>
<td>S03, J/Procedure I, II</td>
<td>S03, J/Procedure I, II</td>
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<td>Solar Radiation</td>
<td>S05, I/Procedure I, II</td>
<td>S05, J/Procedure I, II</td>
<td>S05, I/Procedure I, II</td>
<td>S05, J/Procedure I, II</td>
<td>S05, L/Procedure I, II</td>
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<td>S06, I/Procedure I, II</td>
<td>S06, J/Procedure I, II</td>
<td>S06, I/Procedure I, II</td>
<td>S06, J/Procedure I, II</td>
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<td>S07, J/Procedure I, II</td>
<td>S07, J/Procedure I, II</td>
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<td>S09, J/Procedure I, II</td>
<td>S09, I/Procedure I, II</td>
<td>S09, J/Procedure I, II</td>
<td>S09, J/Procedure I, II</td>
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<td>S10, I/Procedure I, II</td>
<td>S10, J/Procedure I, II</td>
<td>S10, I/Procedure I, II</td>
<td>S10, J/Procedure I, II</td>
<td>S10, J/Procedure I, II</td>
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<tr>
<td>Vibration</td>
<td>S14, J/Procedure I, II</td>
<td>S14, J/Procedure I, II</td>
<td>S14, J/Procedure I, II</td>
<td>S14, J/Procedure I, II</td>
<td>S14, J/Procedure I, II</td>
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<td>Shock</td>
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<td>S16, J/Procedure I, II</td>
<td>S16, J/Procedure I, II</td>
<td>S16, J/Procedure I, II</td>
<td>S16, J/Procedure I, II</td>
</tr>
</tbody>
</table>

**International Protection Standard**
- **Dust & Water Protection**
  - IP54: Radio Itself
  - IP54/SS: Remote Head

**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.
TK-7180(H)/8180(H)

VHF/UHF FM Mobile Radios

**CONVENTIONAL ZONES**
- 512 Channels / 128 Zones
- QT / DQT
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Call Key
- Time Out Timer
- Busy Channel Lockout
- Timed Power Off

**TRUNKED ZONES**
- 512 GID / 128 Zones
- Kenwood LTR Features

**FleetSync**
- FleetSync or FleetSync II
- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short & Long Text Messages
- Power On/Off Status Messages
- Input / Output Status Messages
- FleetSync GPS Ready
- Send GPS PF Key
- PTT ID & Emergency GPS Reporting
- Status Message Block GPS Reporting
- Ignition On/Off GPS Reporting
- VGS-1 GPS Data Storage
- PC Serial Interface

**MDC-1200**
- PTT ID Digital ANI
- Caller ID Display
- Emergency Status
- Radio Check
- Radio Inhibit

**GENERAL FEATURES**
- 30/50 W (136-174 MHz)
- 30/45 W (450-520, 400-470 MHz)
- Conventional & LTR Zones
- MPT 1327 Trunking Option
- Remote Control Head Option
- 12 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit / Busy / Call Alert / Warn LED
- 6 Backlit PF Keys
- Emergency / AUX Key
- Enhanced Kenwood Audio
- Front Panel Speaker
- Companded Audio
- Voice Inversion Scrambler Built-in
- Easy Option Port
- Encryption / ANI Board Control
- VGS-1 Voice Guide / Storage Option
- Encryption Call Features
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Call Key
- Time Out Timer
- Busy Channel Lockout
- Timed Power Off

**DB-25 Accessory Connector**

**9 Programmable AUX I/Os**

**2 Programmable AUX Outputs**

**Ignition Sense**

**Public Address / Horn Alert Option**

**MIL-Spec Standard Mic**

**MIL-Spec 12-Key DTMF Mic Option**

**Windows Programming & Tuning**

**Windows Firmware Uploading**

**Front Panel Test / Tune**

**Cloning**

**MIL-STD-810 C/D/E/F**

**IP-64/55 Water & Dust Intrusion**

**CONVENTIONAL ZONES**
- 512 Channels / 128 Zones
- QT / DQT
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Call Key
- Time Out Timer
- Busy Channel Lockout
- Timed Power Off

**TRUNKED ZONES**
- 512 GID / 128 Zones
- Kenwood LTR Features

**FleetSync**
- FleetSync or FleetSync II
- PTT ID Digital ANI
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- Emergency Status
- Caller ID Display
- Short & Long Text Messages
- Power On/Off Status Messages
- Input / Output Status Messages
- FleetSync GPS Ready
- Send GPS PF Key
- PTT ID & Emergency GPS Reporting
- Status Message Block GPS Reporting
- Ignition On/Off GPS Reporting
- VGS-1 GPS Data Storage
- PC Serial Interface

**MDC-1200**
- PTT ID Digital ANI
- Caller ID Display
- Emergency Status
- Radio Check
- Radio Inhibit
## Specifications

### Applicable MIL-STD & IP

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<th>MIL 810D Methods/Procedures</th>
<th>MIL 810E Methods/Procedures</th>
<th>MIL 810F Methods/Procedures</th>
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<td>500.3/Procedure I, II</td>
<td>500.4/Procedure I, II</td>
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<td>509.2/Procedure I, II</td>
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<td>509.4/Procedure I, II</td>
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<td>510.3/Procedure I, II</td>
<td>510.4/Procedure I, II</td>
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<td>514.2/Procedure I, II</td>
<td>514.3/Procedure I, II</td>
<td>514.4/Procedure I, II</td>
<td>514.5/Procedure I, II</td>
</tr>
</tbody>
</table>

### International Protection Standard

- **Dust & Water Protection**
  - **PS4:** Radio itself
  - **PS4/S:** Remote Head with KRK-10

*To meet above MIL-101 and IP grade, weather proof microphone KMC-35 or KMC-36 has to be connected.

---

## Options

- **KMC-35** Microphone (supplied microphone)
- **KMC-36** Keypad Microphone
- **KMC-9C** Control Station Desktop Microphone
- **KRK-10** Control Head Remote Kit (23bt/7m)
- **KCT-46** Ignition Sense Cable
- **KCT-40** Radio Interface Cable (for KDS-100, KGP-2A/2B)
- **KCT-23M** DC Cable (Dash mount / 10 feet)
- **KCT-23M3** DC Cable (Remote mount / 23 feet)
- **KAP-2** Horn Alert/Public Address Relay Unit
- **VGS-1** Voice Guide & Storage Unit
- **KES-3** External Speaker
- **KES-5** External Speaker (requires KAP-2)
- **KMB-10** Key Lock Adapter
- **KFL-2** Line Noise Filter
- **KPS-10A** DC Power Supply
- **KPS-15** DC Power Supply
- **KDS-100** Mobile Data Terminal
- **KGP-2A/2B** GPS Receiver / Modem Unit (requires KCT-39 option)

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Kenwood U.S.A. Corporation
Communications Sector Headquarters
3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265
Order Administration/Distribution
P.O. BOX 27245, 2201 East Daminger St., Long Beach, CA 90801-5745

Kenwood Electronics Canada Inc.
Canadian Headquarters and Distribution
6070 Keele Road, Mississauga, Ontario, Canada L5L 1S8
Compact VHF/UHF FM Mobile Radios

**TK-7302HV/8302HU**

**GENERAL FEATURES**
- 50 W (136-174 MHz) Models
- 45 W (450-520 MHz) Models
- Conventional Zones
- 16 Channels / 2 Zones
- Single Priority Scan
- Single / Multi-Zone Scan
- 2-Digit LED Channel Display
- Function/Status LED Dots
- Blue Function/Status LED
- Transmit /Busy / Call Alert LED
- Backlit Keys
- 9 Programmable Function Keys
- Emergency / AUX Key
- Front Panel Speaker
- Compressed Audio
- Voice CH# Announcement (8 Languages)
- Voice Inversion Scrambler Built-in
- 16 Scrambler Codes (per CH)
- Encryption / Board Control
- Emergency Call Features
- Lone Worker Alert
- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode
- Single & Two-Tone Encode
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Busy Channel Lockout
- Time Out Timer
- Timed Power Off
- DB15 Accessory Interface
- 8 Programmable I/O Ports
- Ignition Sense
- Public Address / Horn Alert Output
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- Windows® Programming & Tuning
- Cloning
- MIL-STD-810 C/D/E/F
- IP-54 Water & Dust Intrusion

**FleetSync® /II (FM)**
- PTT ID Digital ANI
- Selective Call & Group Call
- Paging Call
- Status Messaging
- Emergency Status
- Input / Output Status Messages
- FleetSync® GPS Ready
- Send GPS PF Key
- PTT ID & Emergency GPS Reporting
- Ignition On/Off GPS Reporting

**MDC-1200**
- PTT ID Digital ANI
- Emergency Status
- Radio Check
- Radio Inhibit
**Options**

- **KMC-35** Microphone (Supplied)
- **KES-3** External Speaker
- **KLC-2** Line Filter
- **KCT-60** DB 15-to-15 Pin Molex Adaptor Cable
- **KMC-36** Microphone with Keypad
- **KES-5** External Speaker (requires KCT-60 option)
- **KCT-18** Ignition Sense Cable (requires KCT-60 option)
- **KES-9C** Desktop Microphone
- **KMB-10** Key Lock Adapter
- **KCT-36** 3m Extension Cable (for KCT-60)
- **KCT-18** External Speaker
- **KES-5** External Speaker (requires KCT-60 option)

**Specifications**

<table>
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<th>Model</th>
<th>TK-7302HV</th>
<th>TK-8302HU</th>
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<tbody>
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<tr>
<td>Frequency Range</td>
<td>136-174 MHz</td>
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<tr>
<td>Number of Channels</td>
<td>Zone 2</td>
<td>Channel Max. 16</td>
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<tr>
<td>Channel Spacing</td>
<td>25 kHz/12.5 kHz</td>
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<tr>
<td>Operating Voltage</td>
<td>13.6V DC ±15%</td>
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<tr>
<td>Current Drain</td>
<td>Standby 0.4 A</td>
<td>Receive 1.0 A</td>
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<tr>
<td>Transmit</td>
<td>14.0 A</td>
<td>14.0 A</td>
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<tr>
<td>Operating Temperature Range</td>
<td>-22°F ~ +140°F (-30°C ~ +60°C)</td>
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<tr>
<td>Frequency Stability</td>
<td>±2.5 ppm (-30°C ~ +60°C)</td>
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<td>Antenna Impedance</td>
<td>50 Ω</td>
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<tr>
<td>Dimensions (W x H x D)</td>
<td>6.3” x 1.7” x 5.4” (160 x 43 x 137 m m )</td>
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<tr>
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<td><strong>FCC ID</strong></td>
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<td>K44407601</td>
<td>K44407702</td>
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</table>

**RECEIVER** (Measurements made per TIA/EIA-603)

- Sensitivity (12 dB S/NAD)
  - Wide: 0.28 µV
  - Narrow: 0.35 µV
- Selectivity
  - Wide: 75 dB
  - Narrow: 65 dB
- Intermodulation Distortion
  - Wide: 70 dB
  - Narrow: 60 dB
- Spurious Response: 75 dB
- Audio Output (4 Ω Impedance): 4 W with less than 5% distortion

**TRANSMITTER** (Measurements made per TIA/EIA-603)

- RF Power Output
  - Wide: 5 W ~ 50 W
  - Narrow: 5 W ~ 45 W
- Spurious Response: 70 dB
- Type of Emission
  - Wide: 16KØ F3E
  - Narrow: 11KØ F3E
- FM Hum & Noise
  - Wide: 45 dB
  - Narrow: 40 dB
- Microphone Impedance: 600 Ω
- Audio Distortion: Less than 5%

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<th>MIL 810D Methods/Procedures</th>
<th>MIL 810E Methods/Procedures</th>
<th>MIL 810F Methods/Procedures</th>
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<td>S00.2/Procedure I</td>
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<td>S00.4/Procedure I, II</td>
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<tr>
<td>High Temperature</td>
<td>S01.1/Procedure I, II</td>
<td>S01.2/Procedure I, II</td>
<td>S01.3/Procedure I, II</td>
<td>S01.4/Procedure I, II</td>
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<td>S02.2/Procedure I, II</td>
<td>S02.3/Procedure I, II</td>
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<td>S03.2/Procedure I</td>
<td>S03.3/Procedure I</td>
<td>S03.4/Procedure I</td>
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<td>Solar Radiation</td>
<td>S05.1/Procedure I</td>
<td>S05.2/Procedure I</td>
<td>S05.3/Procedure I</td>
<td>S05.4/Procedure I</td>
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<td>S06.3/Procedure I, III</td>
<td>S06.4/Procedure I, III</td>
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<td>S07.2/Procedure I, II</td>
<td>S07.3/Procedure I, III</td>
<td>S07.4</td>
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<td>S09.3/Procedure I</td>
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<td>S10.1/Procedure I</td>
<td>S10.2/Procedure I</td>
<td>S10.3/Procedure I</td>
<td>S10.4/Procedure I</td>
</tr>
</tbody>
</table>

**Applicable MIL-STD & IP**

- **Dust & Water Protection**: IP54

*†: These MIL-STD and IP54 compliance categories require a KMC-35/36 microphone to be connected; the DB-15 connector to have supplied cover installed and KCT-xx cables or external speakers installed.

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Kenwood U.S.A. Corporation  
Communications Sector Headquarters  
3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265  
Order Administration/Distribution  
P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745

Kenwood Electronics Canada Inc.  
Canadian Headquarters and Distribution  
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8  
www.kenwood.ca

*2: 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 are subject to change without notice, due to advancements in technology.**

FleetSync® is a registered trademark of JVCKENWOOD Corporation in the United States and/or other countries.

Window® is a registered trademark of Microsoft Corporation in the United States and other countries.

All other trademarks are property of their respective owners.
KENWOOD

TK-7360HV/8360HU V2.0
Compact VHF/UHF FM Mobile Radios

FleetSync®

GENERAL FEATURES
• 50 W (136-174 MHz) Model
• 45 W (450-520 MHz) Model
• Conventional & LTR® Zones
• 10-Character Alphanumeric Aliases
• Backlit LCD & Keys
• Function/Status LCD Icons
• Blue Function / Status LED
• Transmit /Busy / Call Alert LED
• 10 Programmable Function Keys
• Emergency / AUX Key
• Front Panel Speaker
• Compressed Audio
• Voice Inversion Scrambler Built-in
• 16 Scrambler Codes (per CH)
• Encryption / Board Control
• Emergency Call Features
• Lone Worker Alert
• DTMF Encode / Decode
• Special Alert Tone Patterns
• Busy Channel Lockout
• Time Out Timer
• Timed Power Off
• DB15 Accessory Interface

CONVENTIONAL ZONES
• 128 Channels / 128 Zones
• QT / DQT
• Two-Tone Decode
• Single & Two-Tone Encode
• Operator Selectable Tone
• Single Priority Scan
• Single / Multi-Zone Scan

8 Programmable I/O Ports
• Ignition Sense
• Public Address / Horn Alert Output
• MIL-Spec Standard Mic
• MIL-Spec 12-Key DTMF Mic Option
• Windows® Programming & Tuning
• Easy Option Ports (26-pin)
• Cloning
• Voice Guide & Storage (Option)
• MIL-STD-810 C/D/E/F/G
• IP54 Water & Dust Intrusion

TRUNKED ZONES
• 128 GID / 128 Zones
• Kenwood LTR® Feature

FleetSync®II (FM)
• PTT ID Digital ANI
• Selective Call & Group Call
• Paging Call
• Status Messaging
• Emergency Status
• Caller ID Display
• Input / Output Status Messages
• FleetSync® GPS Ready
• Send GPS PF Key
• PTT ID & Emergency GPS Reporting
• GPS Auto Reporting

MDC-1200
• PTT ID Digital ANI
• Caller ID Display
• Emergency Status
• Radio Check
• Radio Inhibit
Options

- KMC-35 Microphone (Supplied)
- KMC-36 Microphone with Keypad
- KES-3 External Speaker
- KES-5 External Speaker (requires KCT-60 option)
- KMB-10 Key Lock Adapter
- KCT-18 Ignition Sense Cable (requires KCT-60 option)
- KES-3 Microphone
- KES-9C Desktop Microphone
- KCT-60 DB 15-to-15 Pin Molex Adapter Cable
- VGS-1 Voice Storage Unit (uses 26p connector)

Specifications

Model | TK-7360HV | TK-8360HU
---|---|---
**GENERAL**
Frequency Range | 136–174 MHz | 450–520 MHz
Number of Channels | Max. 128 per Radio | Max. 128 per Zone
Channel Spacing | Wide: 25 kHz | Narrow: 12.5 kHz
Operating Voltage | 13.6 V DC ±15 %
Current Drain | Standby: 0.4 A | Transmit: 14.0 A
Receive: 1.0 A
Operating Temperature Range | -22ºC ~ +60ºC
Frequency Stability | ±2.5 ppm
Antenna Impedance | 50 Ω
Channel Frequency Spread | 38 MHz
Dimensions (W x H x D), not included | 6.3" x 1.7" x 5.4"
Weight (net) | 2.6 lbs. (1.18 kg)
FCC ID | K44415401, K44415502

RECEIVER (Measurements made per EIA/TIA-603)

| Sensitivity (12dB SINAD) | 0.28 µV | 0.35 µV
Selectivity | Wide: 75 dB | Narrow: 65 dB
Intermodulation Distortion | Wide: 70 dB | Narrow: 65 dB
Spurious Response | 75 dB
Audio Output | 4 W with less than 5 % distortion

TRANSMITTER (Measurements made per EIA/TIA-603)

| RF Output Power | 5 W / 25 W / 50 W | 5 W / 25 W / 45 W
Spurious Response | 70 dB
Type of Emission | Wide: 16K0F3E | Narrow: 11K0F3E
FM Hum & Noise | Wide: 45 dB | Narrow: 40 dB
Microphone Impedance | 600 Ω
Audio Distortion | Wide: 3 % | Narrow: 5 %

Applicable MIL-STD & IP

| Standard | MIL 810C Methods/Procedures | MIL 810D Methods/Procedures | MIL 810E Methods/Procedures | MIL 810F Methods/Procedures | MIL 810G Methods/Procedures |
---|---|---|---|---|---|
Low Pressure | 500.1/Procedure I | 500.2/Procedure I, II | 500.3/Procedure I, II | 500.4/Procedure I, II | 500.5/Procedure I, II |
High Temperature | 501.1/Procedure I, II | 501.2/Procedure I, II | 501.3/Procedure I, II | 501.4/Procedure I, II | 501.5/Procedure I, II |
Low Temperature | 502.1/Procedure I | 502.2/Procedure I, II | 502.3/Procedure I, II | 502.4/Procedure I, II | 502.5/Procedure I, II |
Temperature Shock | 503.1/Procedure I | 503.2/Procedure I, II | 503.3/Procedure I | 503.4/Procedure I, II | 503.5/Procedure I |
Solar Radiation | 505.1/Procedure I | 505.2/Procedure I, II | 505.3/Procedure I | 505.4/Procedure I, II | 505.5/Procedure I |
Rain** | 506.1/Procedure I, II | 506.2/Procedure I, II | 506.3/Procedure I, II | 506.4/Procedure I, II | 506.5/Procedure I, II |
Humidity | 507.1/Procedure I | 507.2/Procedure I, II | 507.3/Procedure I | 507.4/Procedure I | 507.5/Procedure II |
Salt Fog** | 509.1/Procedure I | 509.2/Procedure I | 509.3/Procedure I | 509.4/Procedure I | 509.5/Procedure I |
Dust | 510.1/Procedure I | 510.2/Procedure I | 510.3/Procedure I | 510.4/Procedure I | 510.5/Procedure I |
Vibration | 514.3/Procedure VIII, X | 514.3/Procedure I | 514.4/Procedure I | 514.5/Procedure I | 514.6/Procedure I |
Shock | 516.2/Procedure I, II, III, IV, V | 516.3/Procedure I, IV, V | 516.4/Procedure I, IV, V | 516.5/Procedure I, IV, V | 516.6/Procedure I, IV, V |

International Protection Standard

- Dust & Water Protection: IP54: Radio itself

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

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*1: Necessary conditions are: (1) KMC-35/36 microphone is connected; (2) cap is installed on speaker connector; (3) cover is installed on D-sub 15-pin connector; and (4) neither KCT cable nor SP cable is connected.

*2: Necessaty conditions are: (1) KMC-35/36 microphone is connected; (2) cap is installed on speaker connector; (3) cover is installed on D-sub 15-pin connector; and (4) neither KCT cable nor SP cable is connected.
The Allstar Series


Allstar Features | Features to Meet Your Specific Needs

Optional high-back seats, upholstery, padded cloth walls and ceiling, and overhead luggage racks.

Driver’s switch panel conveniently located within view of the road and not on the engine cover.

Optional double wheelchair door with top mounted gas shocks to hold door open in windy conditions.


Safety is our primary focus at Starcraft Bus, from the 3,000 lbs. seat-pull test to the rigorous 7-year/200,000 mile Altoona testing, passengers can be assured that the Allstar surpasses the most stringent testing. Bus operators can relax knowing that the fully welded steel cage construction offers the best passenger protection.

Performance is not measured by how fast the bus will go, but rather by passenger comfort. The Allstar features straight side wall construction that maximizes passenger shoulder space and the widest aisle in the industry.

Durability does not come easily or quickly. The Allstar has been time tested for close to a decade. The 22,000-plus Starcraft buses on North America's roads offer a billion reasons why the Allstar has become a favorite, and those reasons are called miles. The Allstar is engineered to accommodate a variety of seating arrangements including wheelchair accessibility and various storage options for luggage.

Starcraft Bus, a division of Forest River, Inc. is owned by Berkshire Hathaway, one of the most respected and secure companies in the industry. We continue to be the leader by providing value-packed performance, durability and safe transportation.

Allstar can also be equipped with optional rear wheelchair accessibility.

Optional mid-back seats, padded vinyl walls and ceiling, and wheelchair accessible

Printed electrical circuit board with LED trouble-shooting lights

Optional fiberglass rear cap
The Allstar Series

Standard Exterior Feature Highlights
- Fully welded steel cage construction meeting all applicable FMVSS requirements
- "Starview" drivers visibility window in front of entry door
- Electric actuated passenger entry door with full length glass
- 36" wide x 36" high upper double T-Slider tempered safety glass windows with climate control tint
- Black powder coated steel rear bumper
- Rear mud flaps
- Pre-painted white aluminum side, rear walls, skirts
- One-piece seamless FRP (fiberglass reinforced plastic) roof
- Breakaway rearview mirrors with built-in convex
- Sealed LED stop, tail, and turn signal lights with incandescent reverse lights
- Exterior graphics package available in three colors (blue, green or burgundy)

Standard Interior Feature Highlights
- 93" interior width
- 80" interior floor to ceiling height with standard floor (raised floor is 75")
- Floor and wall seat track for flexible seating
- Black ribbed rubber aisle with gray carpet under the seats
- 5/8" exterior grade plywood flooring
- Ceiling and rear wall fabric for sound abatement
- FRP (fiberglass reinforced plastic) sidewalls for ease of cleaning
- White step nosing
- 1.25" left hand vertical passenger assist rail at entry door
- Printed circuit board with automotive type fuses and LED trouble shooting lights
- Entry door step well lights
- Incandescent driver and passenger area lighting

Popular Option Highlights
- Stainless steel wheel inserts
- Interior and exterior LED lighting
- Luggage Storage areas (overhead luggage racks with reading lights, interior luggage racks, rear storage area)
- Rear emergency door with window(s)
- Passenger area rear heat and air conditioning
- Complete rubber flooring
- Passenger grab rails
- Padded vinyl or cloth walls and ceiling
- Audio and video systems
- Mid back or high back seating
- ADA and FMVSS compliant wheelchair lifts and securement systems
- Fiberglass side walls, skirts, and rear cap
- Seat belts

25 Passenger Plus Driver
Due to our commitment to product quality, specifications and options are subject to change without notice in the interest of product improvement and market changes.

Altoona Tested • 7 Year/200,000 Miles

Starcraft Bus
A division of Forest River, Inc.

2367 Century Drive • Goshen, IN 46528 • Lit. No. SCB-09/093010
1.800.348.7440 • Fax: 574.642.3301 • www.starcraftbus.com
The all new Entourage by Glaval delivers superior quality, versatility and value. Built on Ford’s proven F550 chassis and available in both gas and diesel, the Entourage is economical and offers hundreds of custom options from which to choose. When capacity and power are needed, but affordability is a concern, the Entourage is the perfect product at the perfect price. Engineered with your customer’s comfort in mind, the Entourage offers impressive styling, numerous configurations and outstanding design. The Entourage has proven itself to be the vehicle of choice for the most demanding of customers. Glaval prides itself with quality fit and finish, along with the flexibility to meet your customer’s ever changing needs. If dependability and safety are your top priorities, the new Entourage by Glaval is exactly what you are looking for.
Standard Exterior Feature Highlights
• Fully welded corrosion-preventative coated aluminized steel cage construction with laminated sidewall structure meeting all applicable FMVSS requirements
• “Starview” drivers visibility window in front of entry door
• Electric actuated passenger entry door with full length glass
• 36" wide x 36" high upper double T-Slider tempered safety glass windows with climate control tint
• Black powder coated steel rear bumper
• Rear mud flaps
• Molded wheel flares with no exposed fasteners
• Pre-painted white galvanized steel sidewalls and skirts
• Fiberglass front and rear caps
• One-piece seamless FRP (fiberglass reinforced plastic) roof
• Breakaway rearview mirrors with built-in convex
• Sealed LED stop, tail, and turn signal lights with reverse lights
• Exterior LED front and rear marker lights

Standard Interior Feature Highlights
• 93" interior width
• 80” interior floor to ceiling height with standard floor (raised floor is 75”)
• Floor and wall seat track for flexible seating
• Black slip resistant Gerflor floor covering
• 5/8” marine tech plywood flooring
• Coved flooring to bottom of seat track
• Gray padded vinyl or cloth interior
• White step nosing at passenger door
• 1.25” left hand vertical passenger assist rail at entry door
• LED entry door step well lights
• LED driver and passenger area lighting
• FlexTech Electrical System
• Backup camera system with 7” monitor/rearview mirror combo
• Non-retractable seat belts

Popular Option Highlights
• Stainless steel wheel inserts
• Luggage storage areas (overhead luggage racks with reading lights, interior luggage racks, rear storage area)
• Rear emergency door with window(s)
• Passenger area rear heat and air conditioning
• Passenger grab rails
• Audio and video systems
• Mid back or high back seating
• ADA and FMVSS compliant wheelchair lifts and securement systems
• Fiberglass side walls and skirts
The Ford Transit’s unparalleled versatility allows seemingly endless possibilities for the transportation of people in wheelchairs. The only full size van that is built and converted in the USA, the Ford Transit is the most serviceable and cost effective vehicle for your budget. With combinations from 3 lengths, 3 roof heights, and 3 engine choices you can customize your Transit to fit your unique needs.

**Standard Chassis Features**

**Exterior**
- Windows All Around
- Heavy-Duty 220-Amp Alternator
- Spare Tire And Wheel
- Power Mirrors
- 16" Steel Wheels
- All-Season Tires
- Sliding Passenger-Side Cargo-Door
- Remote Keyless Entry
- 50/50 Hinged Rear Doors, 237° Opening

**Interior**
- Pewter Grey Vinyl Seats
- Separate Front And Rear Air Conditioning
- Separate Front And Rear Heat
- ABS Side Walls
- Front And Rear 12V Powerpoints
- AM/FM Stereo with Audio Input Jack
- Power Windows And Door Locks
- Back up Camera
Floorplan Examples

- 32” Wide And 77 ” High
- Standard 9” Rise and 9” Run Steps
- Does Not Interfere With Airbag Deployment

Optional Bus Style Entry Door

- 2 Stainless Steel Assist Handles
- No Rust Door Insert And Steps
- Does Not Void Body Warranty

Standard Paratransit Equipment

- Wood Subfloor With Seamless Slip Resistant Vinyl Cover
- Braun Century II Lift, 800 lb. Capacity, 34” X 51” Platform
- Intermotive Wheelchair Lift Interlock
- Q-Straint QRT Deluxe Auto-Retracting Tiedowns
- 3 Point Wheelchair Passenger Securement
- Stainless Steel Tiedown Anchor Pods

Optional Equipment Examples

- Q-Straint Slide-N-click Retractable Wheelchair Tiedowns
- Retractable Shoulder Harness W/ Height Adjustment
- Aluminum Or Galvanized Steel Running Boards
- L.E.D Step Well Lights
- Stainless Steel Assist Pole
- Safety kit: 5lb. Fire Ext., 1st Aid Kit, Roadside Reflectors
- Back Up Alarm
- Reverse Sensor System
- Deep Tinted Windows
- Exhaust Pipe Re-Routed To Street Side
- Oxygen Tank Holders
- Escape Hatch
Value-Packed with Superior Fuel Economy, Narrow-Body Bus

The Starlite Transit is the perfect solution for those in the market for a smaller shuttle bus or an alternative to a van. The Starlite Transit, with its narrow body and long list of standard features, can accommodate a variety of needs. Drivers will appreciate the improved visibility the Starlite Transit offers with super starview window and the well-designed driver’s area.

Passengers will be able to enter and exit the Starlite with ease due to the 10” ground to first step, wide entry door, and the deep entry steps. Once on board, the passengers can comfortably move throughout the bus with its 20” aisle and 76” of interior head room. When passengers are seated, they will have an appreciable view through the 36” x 36” windows. This, combined with the previously mentioned features, make the Starlite Transit the most spacious shuttle bus in its class.

Starlite Transit Features

- Comfortable and easily-accessible driver’s area
- Spacious interior with high-back seats and overhead luggage rack
- Attractive and convenient driver control panel

Features to Meet Your Specific Needs
Standard Exterior Feature Highlights
- Fully welded steel cage construction meeting all applicable FMVSS requirements
- 10" ground to first step at entry door
- 109" overall exterior height (depending on options)
- “Super Starview” drivers visibility window in front of entry door
- Electric actuated passenger entry door with full length glass
- 36" high x 36" wide high upper double T-Slider tempered safety glass windows with climate control tint
- Black powder coated steel rear bumper
- Rear mud flaps
- Pre-painted white aluminum side and skirts
- Fiberglass front and rear cap
- One-piece seamless FRP (fiberglass reinforced plastic) roof
- Breakaway rearview mirrors with built-in convex
- Drip rail over all windows and passenger door openings
- LED front and rear marker lights
- LED stop, tail, and turn signal lights including back-up lights.
- Exterior graphics package available in three colors (blue, green, or burgundy)

Standard Interior Feature Highlights
- 81" interior width
- 76" interior floor to ceiling height
- Welded floor and wall seat track for flexible seating
- Black slip resistant rubber flooring
- 5/8" plywood flooring
- Ceiling and rear wall fabric for sound abatement
- FRP (fiberglass reinforced plastic) sidewalls for ease of cleaning
- White step nosing
- 1.25" left hand vertical passenger assist rail at entry door
- Printed circuit board with automotive type fuses and LED trouble shooting lights

Popular Option Highlights
- Stainless steel wheel inserts
- Luggage Storage areas (overhead luggage racks with reading lights, interior luggage racks, rear storage area)
- Rear emergency door with window(s)
- Passenger area rear heat and air conditioning
- Passenger grab rails
- Padded vinyl or cloth walls and ceiling
- Audio and video systems
- Bonded windows
- ADA and FMVSS compliant wheel chair lifts and securement systems

Starcraft Bus, a division of Forest River, Inc., is owned by Berkshire Hathaway, one of the most respected and financially secure companies in the industry.

Due to our commitment to product quality, specifications and options are subject to change without notice in the interest of product improvement and market changes.
The all new Universal is the perfect balance of safety, durability and value. The passenger compartment is surrounded by a fully welded aluminized steel structure. Standard 5/8” marine grade plywood flooring, stainless steel exterior screws and a fully undercoated chassis protects the bus from the most extreme conditions. The newly redesigned exterior features laminated straight sidewalls and a new one piece fiberglass front and rear cap, making it as desirable as it is durable. If dependability and safety is your top priority, the new Universal by Glaval is exactly what you are looking for. Built on Ford’s E-series chassis, the Universal has proven itself to be the vehicle of choice for the most demanding of customers. Glaval prides itself with quality fit and finish along with the flexibility to meet its customer’s ever changing needs.
GLAVAL UNIVERSAL

Standard Exterior Feature Highlights
- Fully welded corrosion-preventative coated aluminized steel cage construction with laminated sidewall structure meeting all applicable FMVSS requirements
- “Starview” drivers visibility window in front of entry door
- Electric actuated passenger entry door with full length glass
- 35” wide x 35” high upper double T-Slider tempered safety glass windows with climate control tint
- Black powder coated steel rear bumper
- Rear mud flaps
- Molded wheel flares with no exposed fasteners
- Pre-painted white galvanized steel sidewalls and skirts
- Fiberglass front and rear caps
- One-piece seamless FRP (fiberglass reinforced plastic) roof
- Breakaway rearview mirrors with built-in convex
- Sealed LED stop, tail, and turn signal lights with reverse lights
- Exterior LED front and rear marker lights

Standard Interior Feature Highlights
- 93” interior width
- 80” interior floor to ceiling height with standard floor (raised floor is 75”)
- Floor and wall seat track for flexible seating
- Black slip resistant Gerflor floor covering
- 5/8” marine tech plywood flooring
- Coved flooring to bottom of seat track
- Gray padded vinyl or cloth interior
- White step nosing at passenger door
- 1.25” left hand vertical passenger assist rail at entry door
- LED entry door step well lights
- LED driver and passenger area lighting
- FlexTech Electrical System
- Backup camera system with 7” monitor/rearview mirror combo
- Non-retractable seat belts

Popular Option Highlights
- Stainless steel wheel inserts
- Luggage storage areas (overhead luggage racks with reading lights, interior luggage racks, rear storage area)
- Rear emergency door with window(s)
- Passenger area rear heat and air conditioning
- Passenger grab rails
- Audio and video systems
- Mid back or high back seating
- ADA and FMVSS compliant wheel chair lifts and securement systems
- Fiberglass side walls and skirts

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2367 Century Drive • Goshen, IN 46528 • Lit. No. GLB - 01/050719
1.800.348.7440 • www.glavalbus.com
Part #: LSBD-3071GX-11

- Length: 54"
- Approval: SAE
- Voltage: 12VDC
- Software: CU
- Corners: (2) 18 LED, (2) 12 LED
- Front Inboards: (4) 18 LED, (1) 9 LED, (4) 12 LED, (1) 6 LED
- Rear Inboards: (5) 18 LED, (3) 12 LED, (1) 9 LED, (1) 6 LED
- Alley Lights: (1) 9 LED, (1) 6 LED

- Mount: Low Profile FRP
- Auto Dimming Light Sensor: Yes
- Lens Color: Clear
Part #: LSBD-3071GN-11

- Length: 54"
- Approval: SAE
- Voltage: 12VDC
- Software: CU
- Corners: 18 LED
- Front Inboards: (6) 12 LED, (2) 6 LED
- Rear Inboards: (8) 18 LED, (2) 9 LED
- Alley Lights: 6 LED
- Mount: Low Profile FRP
- Auto Dimming Light Sensor: Yes
- Lens Color: Clear
Part #: LSBD-3071GP-11

- Length: 54"
- Approval: SAE
- Voltage: 12VDC
- Software: CU
- Corners: 18 LED
- Front Inboards: (8) 12 LED, (2) 6 LED
- Rear Inboards: (8) 18 LED, (2) 9 LED
- Alley Lights: 6 LED
- Mount: Low Profile FRP
- Auto Dimming Light Sensor: Yes
- Lens Color: Clear
Part #: LSBD-3071GS-11

- Length: 54"
- Approval: SAE
- Voltage: 12VDC
- Software: CU
- Corners: 18 LED
- Front Inboards: (8) 12 LED, (2) 6 LED
- Rear Inboards: (8) 18 LED, (2) 9 LED
- Alley Lights: 6 LED

- Mount: Low Profile FRP
- Auto Dimming Light Sensor: Yes
- Lens Color: Clear
Part #: LSBD-3071GT-11

- Length: 54”
- Approval: SAE
- Voltage: 12VDC
- Software: CU
- Corners: 18 LED
- Front Inboards: (8) 12 LED, (2) 6 LED
- Rear Inboards: (6) 12 LED, (2) 18 LED, (2) 6 LED
- Alley Lights: 6 LED

- Mount: Low Profile FRP
- Auto Dimming Light Sensor: Yes
- Lens Color: Clear
Part #: LSBD-3071H7-11

- Length: 54"
- Approval: SAE
- Voltage: 12VDC
- Software: CU
- Corners: (2) 18 LED, (2) 12 LED
- Front Inboards: (4) 18 LED, (4) 12 LED, (1) 9 LED, (1) 6 LED
- Rear Inboards: (5) 18 LED, (3) 12 LED, (1) 9 LED, (1) 6 LED
- Alley Lights: (1) 9 LED, (1) 6 LED
- Mount: Low Profile FRP
- Auto Dimming Light Sensor: Yes
- Lens Color: Clear
Part #: LSBD-2071GQ-11

- Length: 48"
- Approval: SAE
- Voltage: 12VDC
- Software: CU
- Corners: 18 LED
- Front Inboards: 12 LED
- Rear Inboards: 18 LED
- Alley Lights: 6 LED

- Mount: Low Profile FRP
- Auto Dimming Light Sensor: Yes
- Lens Color: Clear
Part #: LSBD-2071GR-11

- Length: 48"
- Approval: SAE
- Voltage: 12VDC
- Software: CU
- Corners: 18 LED
- Front Inboards: 12 LED
- Rear Inboards: 18 LED
- Alley Lights: 6 LED

- Mount: Low Profile FRP
- Auto Dimming Light Sensor: Yes
- Lens Color: Clear
Part #: LSBD-2071GW-11

- Length: 48"
- Approval: SAE
- Voltage: 12VDC
- Software: CU
- Mount: Low Profile FRP
- Auto Dimming Light Sensor: Yes
- Lens Color: Clear
- Corners: (2) 18 LED, (2) 12 LED
- Front Inboards: (4) 18 LED, (4) 12 LED
- Rear Inboards: (5) 18 LED, (3) 12 LED
- Alley Lights: (1) 9 LED, (1) 6 LED