

**TK-7160 / 8160**  
**VHF/UHF Conventional Mobile Radios**



**All 160 series mobiles include:**

- Standard Microphone (KMC-35)
- Mounting Bracket
- DC Cable (KCT-23M)
- 15A (HK) or 10A (K) Fuse
- Instruction Manual
- Standard Warranty: 2 Years\*

\* All Accessories / options: 1 Year

**GENERAL FEATURES**

- 25 / 50 W (136-174 MHz) Models
- 25 / 45 W (450-490 MHz) Models
- Conventional Zones
- 128 Channels / 128 Zones
- Single Priority Scan
- Single / Multi-Zone Scan
- 8-Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function/Status LCD Icons
- Transmit /Busy / Call Alert LED
- 9 Programmable Function Keys
- Emergency / AUX Key
- Enhanced Kenwood Audio
- Front Panel Speaker
- Companded Audio
- Voice Inversion Scrambler Built-in
- Encryption / ANI Board Control
- Emergency Call Features
- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode
- Single & Two-Tone Encode
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Call Key

- Busy Channel Lockout
- Time Out Timer
- Timed Power Off
- Accessory Interface Cable Option
- 8 Programmable I/O Ports
- Ignition Sense
- Public Address / Horn Alert Option
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- Windows® Programming & Tuning
- Front Panel Field-Program Mode
- Cloning
- MIL-STD-810 C/D/E/F

**FleetSync®**

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Input / Output Status Messages
- FleetSync® GPS Ready
- Send GPS PF Key
- PTT ID & Emergency GPS Reporting
- Ignition On/Off GPS Reporting

<b>MODEL</b>		<b>LIST</b>
TK-7160K	136-174 MHz 25W, 128 CH / 128 Zone Conventional	467.00
TK-7160HK	136-174 MHz 50W, 128 CH / 128 Zone Conventional	533.00
TK-8160K	450-490 MHz 25W, 128 CH / 128 Zone Conventional	483.00
TK-8160HK	450-490 MHz 45W, 128 CH / 128 Zone Conventional	550.00

<b>MOBILE INSTALLATION ACCESSORIES</b>		<b>LIST</b>
KAP-2	Horn Alert/P.A. Relay Option	63.00
KCT-18	Ignition sense cable (requires KCT-39 Acc. Cable Option)	13.70
KCT-39	Radio Interface Cable for KGP-2A/2B & KDS-100	22.00
KCT-36	Extension Cable for KCT-34/35/39/40M; 117.6 inches (9.8 ft)	43.75
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30

<b>CONTROL STATION INSTALLATION ACCESSORIES</b>		<b>LIST</b>
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies for 180/160-series mobiles. (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

**MICROPHONES AND SPEAKERS**

**LIST**

KMC-35	Standard dynamic mobile microphone (8-pin mod. plug)	52.50
KMC-36	Standard dynamic mobile microphone with DTMF keypad (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input <b>Note:</b> requires KAP-2 (PA/HA unit) installed	61.25

**FleetSync® MOBILE DATA TERMINAL**

**LIST**



**KDS-100 Data Terminal includes:**

- Mounting bracket
- Mounting hardware
- DC Cable

**KDS-100 FEATURES**

- Increases FleetSync® Message Viewing: 40 Character x 6 line Dot Matix LCD
  - View 5 line Message List x 23 Char. @ line (vs. 1 line Message x 16 Char. scrolling)
  - View Short Text Messages (48 Char.) at once (vs. 48 Char. scrolling)
  - View Long Text Message (1024 Char.) at once (vs. not available)
- Increases FleetSync® ID Capacity: 511 IDs (vs. 100 IDs)
  - Base stations can handle larger size fleets
- Increases Status Message List Capacity: 89 Messages (vs. 50 Msgs.)
  - More dispatcher-to-fleet type messages for different job tasks
  - More fleet-to-dispatcher type messages for responses/statuses
- Increased Status Message Stack Memory: 367 Messages (vs. 9 Msg.s)
- Increased Short Text Message Stack Memory: 367 Messages (vs. 4 Msg.s)
- Lithium Cell Memory Backup Battery (vs. radio-only volatile message memory)
- Large Backlit LCD & Function Keys
- Simple Installation
- Windows® Compatible Programming Software
- Programming Password Protection
- Built-in FleetSync® DSP Modem
- Real-Time Clock/Message Time Stamping
- 10 Status Message 'Hot Keys'
- Message Sorting & Deletion Screens
- Message Temporary Recycle Bin
- New Message Tone and LED Alerts
- Buzzer Volume Level
- Flashrom Firmware Memory

**Important Note:**

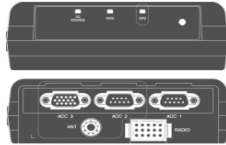
**1. KDS-100 Compatible Dispatch Software May Be Required** - The KDS-100 used a fleet unit will decode Status Messages and Selective Calls sent other FleetSync®-capable portables or mobiles, from a KDS-100 with a FleetSync® capable mobile (PC mode) or a KDS-100 with a non-FleetSync® capable mobile (air mode). However, Short and Long Text Messaging requires a base station FleetSync® capable mobile PC Serial Interfaced with computer running a FleetSync® compatible dispatch software capable of creating and sending Short/Long Text Messages. This software is available from vendors such as:  
 - IDA Corporation, Fargo ND: KenCall Dispatch software  
 - Kenwood Communications Corporation: Fleet Dispatch Pro software

**2. The KDS-100 cannot be used simultaneously with a Kenwood KGP-2A/2B AVL unit.**

KDS-100	FleetSync® Data Terminal <b>Note:</b> The KDS-100 pigtail cable (1.83 ft) combined with the KDS-100 mobile interface cables KCT-34/35/39/40M (1 ft.) and use a KCT-36 (9.8 ft.) for an extension.	625.00
KPG-71DK	Windows® Programming Software for KDS-100	103.25
KCT-39	Radio Interface Cable for KGP-2A/2B & KDS-100	22.00
KCT-36	Extension Cable for KCT-34/35/39/40M; 117.6 inches (9.8 ft)	43.75

**AVL UNITS**

**LIST**



**KGP-2A/2B FEATURES**

- Compatible Radios: 60G/62/63G/80/150/180/160-Series mobiles
- KGP-2A/2B air protocol is backward compatible with KGP-1A/1B
- Programmable Auto-reporting or polled updates
- 256 Mobile IDs x 256 Groups
- Mil-Spec 810C, D & E Dust, Vibration and Shock
- Over-the-air programming- Data Rate 1200 or 2400 baud (except initial programming; see KPG-73D)
- Windows® 95, 98 & Me Programming Software (KPG-73D)
- Sixteen Multi-purpose Programmable I/O's [External Connectors; [DB-9 (ACC2); DB-15(ACC-3) ]
  - Each I/O programmable for either an analog "input" or output" (dispatch-AVL mapping software must support)
  - Inputs for external sensors, switches, contacts, etc.
  - Outputs for external relays, controls, etc. (mapping software must support)
- LED Status Indicators
  - DC Source- indicates receiving power from the mobile
  - Data- indicates KGP-unit is sending /receiving data
  - GPS- indicates receiving a GPS signal (KGP-2A)
- Flashrom Firmware / Compact Size

**Note: KGP-2A/2B Compatible AVL Mapping Software is Required**

A KGP-2A/2B AVL system requires a AVL mapping software package "specifically engineered" for KGP-protocol compatibility. Manning NavComp's RASTRAC® software provides AVL mapping/fleet management. To purchase, or for more information contact:

**Manning NavComp, Inc.**

4205 Park Dr.  
Lago Vista, Texas 78645  
Ph.: 512-267-7800, Fax: 512-267-9200  
E-mail: sales@navcomp.com  
Web: http://www.navcomp.com

**FOR EACH BASE STATION ORDER:**

1. KGP-2B Modem Unit - one KGP-Protocol base/control station modem unit required per AVL system
2. KCT-39 cable & L-xxx - connects the KGP-2B to the 160-Series base/control station mobile
3. Computer Serial Cable Required (not supplied)- The KGP-2B-to-PC COM Port connection for AVL data is made via a dealer-supplied computer serial communication port cable. The serial cable should be a D-Sub 9-Pin Female (KGP-2B; ACC1 end) and the appropriate D-Sub 9-Pin or 25-Pin on the PC serial COM Port end. Serial cables are wired "Null Modem" with pins 2-to-3 and 3-to-2 configured end connectors.

**FOR EACH FLEET MOBILE ORDER:**

1. KGP-2A GPS Receiver-Modem Unit - the KGP-Protocol fleet mobile unit
2. KCT-39 cable - connects the KGP-2A to the fleet 160-Series mobile
3. The KCT-19 & KCT-39 cannot be installed simultaneously- Therefore using a KCT-39 excludes plug-in of a KCT-19 for KES-5 external speaker (use KES-3), Horn Alert output, Data modem I/O's, footswitch input and headsets.

KGP-2A	GPS Receiver / Modem Unit (includes one dash-mount GPS antenna, mounting bracket, screw set) 1. One KCT-39 is required for each fleet and base mobile radio 2. The KCT-39 is 12 inches in length; use a KCT-36 (9.8 ft.) extension if required	551.00
KGP-2B	Base Modem Unit 1. One KCT-39 is required for each fleet and base mobile radio 2. The KCT-39 is 12 inches in length; use a KCT-36 (9.8 ft.) extension if required	236.50
KCT-39	Radio Interface Cable for KGP-2A/2B & KDS-100	22.00
KCT-36	Extension Cable for KCT-34/35/39/40M; 117.6 inches (9.8 ft)	43.75
KPG-73DK	Windows® Programming Software for KGP-2A/2B	103.25

<b>OPTION MODULES</b>	<b>LIST</b>
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CIM-1000K-20	GE-Star or MDC-1200 ANI Encode 20-Pin Plug-in Board Must order <b>L-1057</b> or <b>L-1058</b> for radio install & programming <b>Note:</b> CIM-1000K-20 G-Star®/ MDC1200 Digital ANI (20-Pin Plug-in) Boards Pre-programmed & installed boards require a completed CIM-1000K-20 Information and Order Sheet" (available from Kenwood LMR Order Desk) submitted with order. <b>a)</b> Order the appropriate Labor Code for MDC-1200 or G-Star. <b>b)</b> CIM-1000K-20 boards can be ordered and shipped loose (if shipped loose, Kenwood will not program the board).	131.25
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CIM-CABLE	Serial Program Cable <b>Note:</b> CIM-1000, K-20, K-26 programs via Windows Hyper terminal (Windows Ver 3.1 or later) or any ProComm version; board must be installed in a powered radio for programming. The radio programmer does NOT program the CIM-1000, K-20, K-26. CIM-CABLE is a DB-9 PC connector with 3 short lead with clips and may require a PC serial extension cable. CIM-IRP (Part No 01-30-0510) Infrared wireless standalone programmer, C-Plus line of desktop decoder displays and CIM-1000, K-20, K-26 Instruction Manuals are available directly from Cimarron Technologies 800-487-7184 at www.cimtechcorp.com	61.25
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<b>SERVICE RELATED ACCESSORIES</b>	<b>LIST</b>
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KPG-46AM	Programming interface cable	191.00
KCT-53UM	USB Adapter for KPG-xxAM DB9F Programming Interface Cables (DB9M - to - USB Type A connector)	86.00
KPG-99DK *****	Windows® Programming Software for TK-7160/8160 <b>Call Kenwood Parts at 800-367-7514 to order the following:</b>	103.25
E30-3382-05	Clone cable	11.28
J29-0662-03	Mounting bracket for TK-7180/8180/7160/8160--same as supplied w/ radio (order N99-2039-05 for mounting screw set)	39.50

<b>INSTALLATION / TUNING CHARGES</b>	<b>LIST</b>
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L-985	TK-7160/8160 Programming (with basic TX/RX check)	37.50
L-966	Install KAP-2 (Default) HR1/Internal Sp./PA	25.00
L-1010	Install KAP-2 (External Sp.) HR1/External Sp./PA	25.00
L-1057	TK-7160/8160 CIM-1000K-20/MDC1200 ENCODER INSTALLATION	75.00
L-1058	TK-7160/8160 CIM-1000K-20/GE STAR ENCODER INSTALLATION	75.00