KENWOOD

TK-7180/8180
VHF / UHF Trunking & Conventional Mobile Radios

Model	Description	List
VHF	***Includes: KMC-35 Mic., DC Cable, Mounting bracket***	
TK-7180K	136-174 MHz 30W, 512 CH / 128 Zone CONV-& LTR	$558.00
TK-7180HK	136-174 MHz 50W, 512 CH / 128 Zone CONV-& LTR	$684.00
UHF	***Includes: KMC-35 Mic., DC Cable, Mounting bracket***	
TK-8180K	450-520 MHz 30W, 512 CH / 128 Zone CONV-& LTR	$575.00
TK-8180HK	450-520 MHz 45W**, 512 CH / 128 Zone CONV-& LTR	$700.00
TK-8180K2	400-470 MHz 30W, 512 CH / 128 Zone CONV-& LTR	$575.00
TK-8180HK2	400-470 MHz 45W, 512 CH / 128 Zone CONV-& LTR	$700.00

TK-7180/8180 FEATURES:

GENERAL
30** Watt UHF & VHF Models
45**/50 Watt UHF & VHF Models
Wide Band: UHF 70 MHz / VHF 38 MHz
Conventional & LTR Zones
512 Channels / 128 Zones
Remote Control Head Option (KRK-10)
Home CH/GID
Direct Channel/GID Access (5)
12 Character Alphanumeric Aliases
Backlit Dot Matrix LCD
3-Digit Sub-Display
RSSI Indicator
Date & Time Clock
Power On Text Message
Emergency/AUX Key (△)
6 Programmable Function Keys
Kenwood Enhanced Audio
Companded Audio Per Channel
4 W Front Panel Speaker Audio
DB-25 Acc. Conn. /Programmable Interface
Ignition Sense Line (pigtail)
KAP-2 PA/HA Unit
Horn Alert (FleetSync®, 2-Tone, DTMF decode)
Easy Option Port
VGS-1 Voice Guide & Storage Unit
Voice Inversion Scrambler Built-in
Encryption/ANI Board Control
Emergency Calling Features
Signaling AND/OR (per Zone)
DTMF Decode
DTMF Stun
DTMF PTT ID
DTMF Manual Encode (keypad models)
DTMF Auto-Dial (32 numbers)
Call Key (FleetSync®, 2-Tone or DTMF encode)
Special Alert Tones (8 Sequences)
Embedded Message (64 Character)
Embedded Message with Password
Microphone Sensitivity Adjust
Tone Volume
Min / Max. Speaker Volume
Time Out Timer (per Zone)
Timed Power Off

Transceiver Password
Data Password (Read/Write)
Windows® Programming & Tuning
English/Spanish Program Screen Language
Panel Test/Tune
Cloning
Firmware Version Programming & Version
MIL-STD-810 C/D/E/F (11 cat.)
MIL-STD "Driven-Rain" (Control Head)
IP-54/55 Water & Dust Intrusion (Control Head)
2 Year Warranty

CONVENTIONAL ZONES
512 Channels (CH & GID max. capacity per radio)
128 Zones max. per radio
250 CH max. per CONV. Zone
QT / DQT
Two-Tone Decode (4 sets x 4 pairs each)
Single / Two-Tone Encode (32)
Operator Selectable Tone (40 code pairs)
Dual Priority Scan
Single/Multi-Group/List Scan
Scan Revert Channel Display
Priority Channel Stop Tone
CH Delete/Add
Nuisance Delete
Priority Temporary Delete
Power on Scan
Talk Around
Busy Channel Lockout

INCLUDED ITEMS
DC cable, spare fuse, mounting bracket & hardware, KMC-35 microphone
English/Spanish Instruction Manual

TRUNKED ZONES
512 GID (CH & GID max. capacity per radio)
128 Zones max. per radio
250 GID max. per Trunked Zone
GID Delete/Add
Full LTR Trunking Features
LTR Talk Around /Scan Revert Group Display
System Scan, Group Scan, Auto Search

FLEETSYNC® (Conv. & Trunked Zones)
FLEETSYNC® or FLEETSYNC® II Compatibility
PTT ID Digital ANI
100 ID List Capacity
Caller ID Display
Caller ID Stack (last 3 calls)
Status Messaging
90 Message List Capacity
10-79 Custom Dispatch Messages
ST 98: Man-Down Emergency (portables)
ST 99: Emergency Status
ST 88: Emergency Mode Off
ST 89: Horn Alert Request (mobiles)
ST 90: Stun radio (No TX)
ST 91: Stun radio (No TX / No RX audio)
ST 92: Turn off Stun
ST 93- ACK stun is ON
ST 94- ACK stun is OFF
ST 80- No Such Status Programmed Response
ST 81-87, 95-97 (Reserved for future use)
Selective Call
Short Text Messages (stored/display)
Long Text Message (requires KDS-100, KCT-40M)
Power On/Off Status Messages
AUX Input/Output Status Messages (3 each)
FleetSync® GPS Ready (NMEA Input)
FleetSync® GPS Data Storage (requires VGS-1)
FleetSync® PC Serial Interfacee (DB-25)

**** TX Power is derated at 490-512MHz**
TK-8180K: 30W: 450-489 MHz; 25W: 490-512 MHz
TK-8180HK: 45W: 450-489 MHz; 40W: 490-512 MHz

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Accessories for the TK-7180/8180 Series Radios

Model	Description	List
MOBILE INSTALLATION ACCESSORIES		
KAP-2	Horn Alert/P.A. Relay Option	60.00
KCT-46	Ignition sense cable (plugs directly into mobile chassis ignition sense line)	13.00
KCT-40M	KGP-2A/2B & KDS-100 Radio Interface Cable for TK-7150/8150/7180/8180.	28.00
KCT-36	KCT-34/35/39/40M Extension Cable; 117.6 inches (9.8 ft)	42.00
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	39.50
KMB-10	Key lock adapter	25.00
	Mobile mounting bracket (same as supplied): see service manaul for part number	
KRK-10	Remote Control Kit for TK-7180/8180 (a remote control cable (23 ft) is included)	100.00
CONTROL STATION INSTALLATION ACCESSORIES		
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	82.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included) For 180/160-series mobiles.	40.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak) **Compatible with medium & high power compact mobiles only.**	167.00
MICROPHONES AND SPEAKERS		
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	42.00
KES-5	External speaker, 40W max input, blk case; 5"x5"x2-9/16" (NOTE: requires and installed KAP-2 PA/HA unit!)	59.00
KMC-35	Standard dynamic mobile microphone (8-pin mod. plug) --- **same as supplied with radio**	50.00
KMC-36	Standard dynamic mobile microphone with DTMF keypad (8-pin mod. plug)	90.00
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	82.00
FLEETSYNC® MOBILE DATA TERMINAL *See the KDS-100 price pages for detailed information*		
KDS-100	FleetSync® Data Terminal- Includes mounting bracket, mounting hardware and DC Cable **Note**: KCT-40M Radio Interface cable is required. Use a KCT-36 9.8 ft. for an extension cable	595.00
KPG-71D	Programming Software for KDS-100 Windows® 95/98/Me	99.00
KCT-40M	KGP-2A/2B & KDS-100 Radio Interface Cable	28.00
KCT-36	KCT-34/35/39/40M Extension Cable; 117.6 inches (9.8 ft)	42.00
KAS-2FSD	**FleetDispatchPRO: FleetSync® messaging dispatch software for PC (Windows® 98/Me/NT/2000/XP compatible) Supports the following FleetSync® features: decodes PTT ID, decodes Emergency, encode/decodes Status Messages, encodes Short & Long Text Mesages.**	365.00

Note: TK-7180/8180 base mobile connects to PC via standard DB-25 serial cable; not supplied.

COMPUTER SYSTEM REQUIREMENTS
☐Windows 98/Me/NT/2000/XP OS / Pentium II 450 MHz or better
☐10 MB of hard disk drive space / 64MB RAM / CD ROM Drive / Mouse
☐Super VGA color monitor or better / 1024 x 768 or higher resolution setting
☐1 Serial Port (for mobile serial cable)
☐1 Parallel Port (for FleetDispatchPRO hardware key; single PC use only; not LAN compatible)
☐Package Contents: CD ROM, Instruction Manual, Hardware Key
MOBILE PC STATION REQUIREMENTS
☐FleetSync PC Serial Interface capable (FleetSync enhanced enabled)
☐Installed PC Serial Interface Cable (see mobile options/accessories)
☐Base Station Desktop Microphone recommended (see mobile options/accessories)

Model	Description	List
AVL UNITS **See the AVL price pages for detailed information**		
KGP-2A	GPS Receiver / Modem Unit (includes one dash-mount GPS antenna, mounting bracket, screw set)	525.00
KGP-2B	Base Modem Unit	225.00
	Note: A KGP-2A/2B AVL system requires aftermarket AVL mapping dispatch software -see AVL price pages	
KPG-73D	Programming Software for KGP-2A/2B Windows® 95/98/Me	99.00
KCT-40M	KGP-2A/2B & KDS-100 Radio Interface Cable	28.00
KCT-36	KCT-34/35/39/40M Extension Cable; 117.6 inches (9.8 ft)	42.00

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Model	Description	List
OPTION MODULES		
VGS-1	Voice Guide and Storage Unit	72.00
CIM-1000K-26	GE-Star or MDC-1200 ANI Encode 26-Pin Plug-In Board Order labor code for radio install and programming.	125.00
CIM-CABLE	Serial Program Cable* CIM-1000K-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-1000K-26. CIMM-CABLE is a DB-9 PC connector with 3 short lead with clips and may require a PC serial extension cable	59.00

CIM-1000K-26 G-Star®/ MDC1200 Digital ANI (26-Pin Plug-in) Boards

Pre-programmed & installed boards require a completed CIM-1000K-26 Information and Order Sheet" (available from Kenwood LMR Order Desk) submitted with order.
a. Order the appropriate Labor Code for MDC-1200 or G-Star.
b. CIMM-1000K-26 boards can be ordered and shipped loose (if shipped loose, Kenwood will not program the board).
c. Emergency "Man-down" feature requires an installed CAE-3 internal man-down tilt-switch or use of the KCT-47MS external man-down switch option (portables only).

Notes:
1. CIM-IRP (Part No 01-30-0510) Infrared wireless standalone programmer, C-Plus line of desktop decoder displays and CIM-1000K-26 Instruction Manuals are available directly from Cimmarron Technologies 800-487-7184 at www.cimtechcorp.com
2. The CIMM-1000K-26 replaces the QE-2 board for 180-Series portables/mobiles.

Encryption Boards

The radios Encryption/ANI Port (PCB hardwire solder lands) is designed to interface with the typcial aftermarket encryption and ANI boards.
This radio supports the interface required for boards from the following manufacturer(s); contact the manufaturer for product information and Kenwood radio model application notes:

Transcrypt Secure Technologies
3900 NW 12th Street, Suite 200
Lincoln, NE 68521
Phone: 800-228-0226
website: www.transcryptsecure.com

Typical Models (check with vendor for most recent product info)
SC-20-416/430/460-12
KW21-416/430/460

Accessories for the TK-7180/8180 Series Radios

Model	Description	List
SERVICE RELATED ACCESSORIES		
KPG-46	Mobile Programming interface cable (for 8-pin modular mic jack mobiles)	N/A
KPG-89DK	Windows® Programming Software for TK-2180/3180/7180/8180 (98, ME, 2000 & XP compatible)	N/A
	Call Kenwood Parts at 800-367-7514 to order the following:	
E30-3382-05	Clone cable	11.28
J29-0662-03	Mounting bracket for TK-7180/8180--- same as supplied w/ radio (order N99-2039-05 for mounting screw set)	

Installation / Tuning Charges for the TK-7180/8180 Series Radios

Model	Description	List
L-965	TK-7180/8180 Programming (with basic TX/RX check)	37.50
L-962	Install VGS-1 Voice Guide & Storage Unit Note: VGS-1 installation precludes any ANI or encryption board installation	25.00
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-968	Assemble TK-7180/8180 with KRK-10 Remote Kit	42.00
L-1020	Install & Program CIM-1000K-26 for MDC-1200 in TK-7180/8180	75.00
L-1021	Install & Program CIM-1000K-26 for GE-Star in TK-7180/8180	75.00