# OPTIONS



KCT-19	KCT-31	KCT-34	KCT-36	
Accessories Connector Cable	PC Serial Interface Cable	Connection Cable	Extension Cable	







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

		TK-780	TK-780H	TK-880	TK-880H		TK-780	TK-780
GENERAL								
Frequency ran	ige	8 8 8 8 8 8			<u> </u>	FCC compliance		
Ту	pe 1	146 ~	174 MHz	450 ~	490 MHz	Type 1	FCC parts 22,	FCC parts
Ту	pe 2	136 ~	162 MHz	485 ~	512 MHz		74, 90, 90.210	74, 80, 90
Ту	pe 3			400 ~	430 MHz			90.210
Systems (Trun	ked mode)		Ma	x. 32		Type 2	FCC parts 22,	FCC parts
Groups (Trunk	(ed mode)		Ma	x. 250			74, 90, 90.210	74,80, 90,
Channels Tru	unked		Ma	x. 600		Type 3		
Co	nventional		Ma	k. 250				
Channel spaci	ng					IC certification		
Wi	de	25, 3	30 kHz	25	kHz	Type 1	282195512A	28219556
Na	rrow	12.5,	15 kHz	12.	5 kHz	Type 2	282195531A	28219558
PLL step		1.25, 2.5, 5,	2.5, 5, 6.25,	5, 6.	25 kHz	Type 3		
		6.25, 7.5 kHz	7.5 kHz			RECEIVER (Measurem	ents made per	EIA/TIA-20
Operating vol	tage		13.6 V E	C ± 15 %		Sensitivity (12 dB SINAD	))	
Current drain						Selectivity*		
Sta	andby	0.4 A	0.4 A	0.4 A	0.4 A	Wide	80	0 dB
Re	ceive	1.0 A	1.0 A	1.0 A	1.0 A	Narrow	7(	0 dB
Tra	ansmit	8.0 A	12.0 A	8.0 A	12.0 A	Intermodulation		
Duty cycle			Transn	nit: 20 %		distortion Wide		
Operating tem	perature	-	22° F ~ +140° F	(-30° C ~ +60°	, C)	Narrow		
range						Spurious response*	90	0 dB
Frequency sta	bility		±0.00025% (-:	22° F ~ +140° F	=)	Audio output	4	W with les
Antenna impe	dance		5	0 Ω		TRANSMITTER (Mea	surements mad	le per EIA-
Channel frequ	ency					RF power output	25 W	45 W
spread	Type 1	28	MHz	40	MHz	Spurious response	70 dB	70 dB
	Type 2	26	MHz	27	MHz	Modulation		
	Type 3			30	MHz	Wide		,
Dimensions (V	V x H x D)	5-1/2 x 5-3/4 x	5-1/2 x 6-3/4 x	5-1/2 x 5-3/4 x	5-1/2 x 6-3/4 x	Narrow		,
		1-1/2 in.	1-1/2 in.	1-1/2 in.	1-1/2 in.	FM noise Wide		
		(140 x 145 x	(140 x 173 x	(140 x 145 x	(140 x 173 x	Narrow		
		40 mm)	40 mm)	40 mm)	40 mm)	Audio distortion		
Weight (net)		2.07 lbs.	2.42 lbs.	2.07 lbs.	2.42 lbs.	Wide		Le
		(940 g)	(1.1 kg)	(940 g)	(1.1 kg)	Narrow		Le:
FCC ID	Type 1	ALH24583110	ALH24583210	ALH24593110	ALH24593210			Le
	Type 2	ALH24583120	ALH24583220	ALH24593120	ALH24593220	Microphone impedance		
	Type 3			ALH24593130	ALH24593230	Kenwood reserves the right to c		

FCC compliance			TK-780	TK-780H	TK-880	TK-880H		
Type 1 FCC parts 22, 74, 90, 90.210 74, 90, 95 95 74, 90, 90.210 95 74, 90, 90.210 95 74, 90, 90.210 95 74, 90, 90.210 95 74, 90, 90.210 95 74, 90, 90.210 95 74, 90, 90.210 74, 90, 90.								
Type 2 FCC parts 22, 74, 90, 90.210 74, 80, 90, 90.210 95  Type 3 FCC parts 22, 74,80, 90, 74,90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 90	FCC compl	liance						
Type 2 FCC parts 22, 74, 90, 90.210 FCC parts 22, 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 74, 90, 90.210 FCC parts 90, 90.210 90.210  IC certification		Type 1	FCC parts 22,	FCC parts 22,	FCC parts 22,	FCC parts 22,		
Type 2			74, 90, 90.210	74, 80, 90,	74, 90, 95	74, 90, 90.210		
Type 3				90.210		95		
Type 3		Type 2	FCC parts 22,	FCC parts 22,	FCC parts 22,	FCC parts 22,		
IC certification Type 1 Type 2 Type 3  RECEIVER (Measurements made per EIA/TIA-204-D)  Sensitivity (12 dB SINAD)  Selectivity* Wide Narrow Narrow  Spurious response*  Audio output  TRANSMITTER (Measurements made per EIA-152-C)  RF power output Spurious response  70 dB  70 d			74, 90, 90.210	74,80, 90,	74, 90, 90.210	74, 90, 90.210		
C certification		Type 3			FCC parts 90,	FCC parts 90,		
Type 1 Type 2 Type 3  282195531A Type 3  RECEIVER (Measurements made per EIA/TIA-204-D)  Sensitivity (12 dB SINAD)  Selectivity* Wide 80 dB 80 dB Narrow 70 dB 67 dB  Narrow 65 dB  Spurious response* 90 dB 85 dB  Audio output 25 W 45 W 25 W 40 W  Spurious response 70 dB 70 dB 70 dB 65 dB  Modulation  Wide 16KØF3E Narrow 11KØF3E  FM noise Wide Narrow 45 dB  Audio distortion Wide 75 dB Spurious response 70 dB 70 dB 70 dB 65 dB  Modulation 45 dB  Less than 3% Less than 5%					90.210	90.210		
Type 2 Type 3  Type 3  RECEIVER (Measurements made per EIA/TIA-204-D)  Sensitivity (12 dB SINAD)  Selectivity*  Wide Narrow	IC certifica	tion						
Type 3		Type 1	282195512A	282195560A	282195511A	282195559A		
RECEIVER (Measurements made per EIA/TIA-204-D)  Sensitivity (12 dB SINAD)  Selectivity*		Type 2	282195531A	282195588A				
Sensitivity (12 dB SINAD)         0.25 μV           Selectivity*         Wide         80 dB         80 dB           Narrow         70 dB         67 dB           Intermodulation distortion         Wide         75 dB           Narrow         65 dB         85 dB           Spurious response*         90 dB         85 dB           Audio output         4 W with less than 5% distortion           TRANSMITTER (Measurements made per EIA-152-C)           RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         65 dB           Modulation         Wide         16KØF3E         11KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Less than 3%           Wide         Less than 5%		Type 3			282195521A	282195587A		
Selectivity*         Wide         80 dB         85 dB	RECEIVER	R (Measureme	nts made per l	EIA/TIA-204-D	)			
Wide         80 dB         80 dB           Narrow         70 dB         67 dB           Intermodulation         distortion         Wide         75 dB           Narrow         65 dB           Spurious response*         90 dB         85 dB           Audio output         4 W with less than 5% distortion           TRANSMITTER (Measurements made per EIA-152-C)           RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         70 dB         70 dB         70 dB         65 dB           Modulation         Wide         16KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Wide         Less than 3%           Less than 5%	Sensitivity	(12 dB SINAD)	0.25 μV					
Narrow         70 dB         67 dB           Intermodulation         distortion         Wide         75 dB           Narrow         65 dB         Spurious response*         90 dB         85 dB           Audio output         4 W with less than 5% distortion         TRANSMITTER (Measurements made per EIA-152-C)           RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         65 dB           Modulation         Wide         16KØF3E           Narrow         11KØF3E         11KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Wide         Less than 3%           Narrow         Less than 5%	Selectivity	*			; ; ; ;			
Intermodulation   distortion   Wide   75 dB		Wide	80 dB		80 dB			
distortion         Wide Narrow         75 dB 65 dB           Spurious response*         90 dB         85 dB           Audio output         4 W with less than 5% distortion           TRANSMITTER (Measurements made per EIA-152-C)           RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         65 dB           Modulation         Wide         16KØF3E         11KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Wide         Less than 3%           Narrow         Less than 5%		Narrow	70 dB		67 dB			
Narrow         65 dB           Spurious response*         90 dB         85 dB           Audio output         4 W with less than 5% distortion           TRANSMITTER (Measurements made per EIA-152-C)           RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         65 dB           Modulation         Wide         16KØF3E           Narrow         11KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Uide         Less than 3%           Narrow         Less than 5%	Intermodu	lation			i			
Spurious response*         90 dB         85 dB           Audio output         4 W with less than 5% distortion           TRANSMITTER (Measurements made per EIA-152-C)           RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         65 dB           Modulation         Wide 16KØF3E 11KØF3E           FM noise Wide Narrow         45 dB         45 dB           Audio distortion Wide Less than 3% Less than 5%	distortion	Wide		75 (	dB			
Audio output         4 W with less than 5% distortion           TRANSMITTER         (Measurements made per EIA-152-C)           RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         65 dB           Modulation         Wide         16KØF3E           Narrow         11KØF3E         11KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Wide         Less than 3%           Narrow         Less than 5%		Narrow	65 dB					
TRANSMITTER (Measurements made per EIA-152-C)           RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         65 dB           Modulation         Wide         16KØF3E           Narrow         11KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Wide         Less than 3%           Narrow         Less than 5%	Spurious r	esponse*	90 dB 85 dB			5 dB		
RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         65 dB           Modulation         Wide Narrow         16KØF3E           FM noise         Wide Narrow         45 dB           Audio distortion Wide Narrow         Less than 3%           Less than 5%         Less than 5%	Audio outr	out	4 W with less than 5% distortion					
RF power output         25 W         45 W         25 W         40 W           Spurious response         70 dB         70 dB         70 dB         65 dB           Modulation         Wide Narrow         16KØF3E           FM noise         Wide Narrow         45 dB           Audio distortion Wide Narrow         Less than 3%           Less than 5%         Less than 5%	TRANSM	ITTER (Meas	urements mad	e per EIA-152-	-C)			
Modulation           Wide         16KØF3E           Narrow         11KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Wide         Less than 3%           Narrow         Less than 5%	RF power					40 W		
Wide         16KØF3E           Narrow         11KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Wide         Less than 3%           Narrow         Less than 5%	Spurious r	esponse	70 dB	70 dB	70 dB	65 dB		
Narrow         11KØF3E           FM noise         Wide         50 dB           Narrow         45 dB           Audio distortion         Wide         Less than 3%           Narrow         Less than 5%	Modulatio	n			<i></i>	h		
FM noise		Wide	16KØF3E					
Narrow 45 dB  Audio distortion Wide Less than 3% Narrow Less than 5%		Narrow						
Audio distortion Wide Less than 3% Narrow Less than 5%	FM noise	Wide						
Wide Less than 3% Narrow Less than 5%		Narrow						
Narrow Less than 5%	Audio dist	ortion						
		Wide	Less than 3%					
Microphone impedance 600 Q		Narrow						
	Microphon	ne impedance						

\* Typical specifications Cenwood reserves the right to change specifications and features without prior notice.

# **■** Applicable MIL-STD

Standard	MIL 810C	MIL 810D	MIL 810E	MIL 810F
	Methods /Procedures	Methods / Procedures	Methods / Procedures	Methods / Procedures
Low Pressure	500.1 /Procedure I	500.2 /Procedure I, II	500.3 /Procedure I, II	500.4 /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
Low Temperature	502.1 /Procedure I	502.2 /Procedure I, II	502.3 /Procedure I, II	502.4 /Procedure I, II
Temperature Shock	503.1 /Procedure I	503.2 /Procedure I	503.3 /Procedure I	503.4 /Procedure I, II
Solar Radiation (Sunshine)	505.1 /Procedure I	505.2 /Procedure I	505.3 /Procedure I	505.4 /Procedure I
Humidity	507.1 /Procedure I, II	507.2 /Procedure II, III	507.3 /Procedure II, III	507.4 /Procedure I
Sand & Dust	510.1 /Procedure I	510.2 / Procedure I	510.3 / Procedure I	510.4 / Procedure I, III
Vibration	514.2 / Procedure VIII, X	514.3 / Procedure I	514.4 / Procedure I	514.5 / Procedure I
Shock	516.2 / Procedure I, II, III, V	516.3 / Procedure I, IV, V	516.4 / Procedure I, IV, V	516.5 / Procedure I, IV, V

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# KENWOOD

# TK-780(H)/880(H) Version 2.0 Fleet Sync°

^



**■ TRUNKED OR CONVENTIONAL MODES** ■ 32 SYSTEMS/250 GROUPS (TRUNKED MODE) ■ 10 CHARACTER ALPHANUMERIC ALIAS

■ MAX. 600 CHANNELS (TRUNKED MODE)

■ MAX. 250 CHANNELS CAPACITY (CONVEN-TIONAL MODE)

■ MULTIPLE SCAN FUNCTIONS

■ MIL-STD 810 C/D/E

**■ DIE-CAST CHASSIS** 

**■ HIGH-OUTPUT SPEAKER** 

**■ TELEPHONE DIALING FEATURES** ■ CODED SQUELCH (QT/DQT)

A B C D

■ SECURITY FEATURES

**■ FLASH MEMORY ADVANTAGE** 

**■ FleetSync® ALPHANUMERIC TWO-WAY** 

**■ 12 CHARACTER DOT MATRIX LCD** 

**■ DATA-READY CONNECTION PORT** 

ADS#101204(0) Printed in USA

# TK-780(H)/880(H)—Multi-Mode without compromise...

The changing telecommunications landscape mandates products and services that can fill both your current needs and grow with the challenges of tomorrow. The Kenwood TK-780(H)/880(H) Multi-Mode wireless mobile units operate on multiple systems types: conventional, trunking, wide or narrow bandwidth with built-in FleetSync® alphanumeric two-way paging. Compromise is not a part of your plans and Kenwood's TK-780(H)/880(H) mobiles are ready to answer any need. The nimble software driven modes, features sets and state-of-the-art technology have been crafted into a tough compact package that meets military environmental specifications.



# LASH MEMORY ADVANTAGE

Flash memory permits updates, advanced feature sets and system architectural changes to be made electronically without ever opening the unit. This means fast changes for the system operator and less downtime for users.

# ROGRAMMABLE FUNCTION KEYS (PF KEYS)

Each key is programmable for virtually any radio feature allowing the unit to be customized to fit user needs. Simple feature sets meet basic needs and reduce training time. Sophisticated feature sets are available for special applications and supervisory personnel.



# **VERSATILITY**

### TRUNKED AND CONVENTIONAL MODES

The Kenwood TK-780(H)/880(H) Conventional Mode offers traditional two-way conventional repeater and simplex operations with priority channel scanning. The Trunked Mode allows operation on both conventional and LTR® trunking systems in one unit.

LTR is a registered trademark of Transcrypt, International.

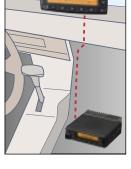
### LARGE CHANNEL CAPACITY

In Trunked Mode, the 600-channel capacity can handle all your trunked system requirements now and in the future should the network expand. Each programmed system can be either set for either conventional or trunked operation. The unit dynamically allocates the 32 system and 250-group memory

capacity as system parameters are programmed. In Conventional Mode, the 250-channel capacity provides more than enough room for companywide, departmental, divisional requirement plus room for auxiliary or special use channels.

# **DATA-READY CONNECTION PORT**

The TK-780(H)/880(H) mobiles have a data connection port for external mobile data terminals, PC-modems (requires KCT-19 option), or AVL units.



# FleetSync®

# FleetSync® ADVANTAGE

# FleetSync® DIGITAL MESSAGING & SIGNALING "BASIC"

The FleetSync® "Basic" feature set is included in each radio providing a cost-effective fleet unit identification, selective calling and messaging system for dispatch operations¹. Each radio can have an ID comprised of a Fleet and Unit number which is used for all FleetSync® signaling and data messaging (250 fleets/4000 units per fleet), allowing large fleets or multiple fleets to share the same radio system(s).

■ PTT ID is a digital ANI (Automatic Number Identifier), which can be sent on each PTT using the FleetSync® ID. An associated alphanumeric user name can be displayed on an 80-Series base mobile LCD (Caller ID\* enabled), a base station decoder unit or dispatch software. Personnel are clearly identified during mission critical tasks so the dispatcher/supervisor can immediately identify who is talking for efficient fleet management and call processing.

# ■ Caller ID\* decodes an incoming PTT ID and uses the pre-stored ID List with alphanumeric name tags to identify the caller in the radio's LCD. This is available for fleet portables and mobiles as well as base stations.

- Caller ID Stack\* stores (in volatile memory) the three most recently received PTT IDs for recall and review, allowing a user to check for missed voice calls.
- Extended ID List Capacity (100\*) allows a base station radio to select up to 100 target fleet radios by nametag to send FleetSync® Selective Calls and Status Messages. Fleet radios can display up to 100 caller names upon decoding PTT ID's, (Caller ID enabled), Selective Calls, Status and Text Messages.
- Extended Status Message List (50\*) provides up to 50 pre-stored sixteen-character alphanumeric messages permitting a base to send a larger variety of job task messages. Fleet radios can display and respond accordingly with complimentary acknowledgements. Also, special reserved Emergency, Emergency Man-down\*, Emergency Mode Off \*, Horn Alert (mobiles)\* and Radio Stun/Acknowledge/Resurrect statuses are provided.
- <sup>1</sup> FleetSync<sup>®</sup> "Basic" dispatch features are available using just 80-Series mobile/portable fleet radios and an 80-Series mobile base/control station. More advanced FleetSync<sup>®</sup> dispatch systems may require the FleetSync<sup>®</sup> Enhanced option and FleetSync<sup>®</sup>-compatible peripherals and/or software.

# FleetSync® DIGITAL MESSAGING & SIGNALING "ENHANCED OPTION"

The FleetSync® Enhanced option extends the FleetSync® Basic feature set to include custom Short Text Messaging, Long Text Messaging (mobiles) and 80-Series PC Serial Interface (mobiles) capability.

- Short Text Messaging permits fleet radios to receive, store, review and display up to four 48-character text messages (requires compatible base dispatch software)². Fleets can be sent detailed custom text messages, thereby increasing fleet efficiency and productivity even while unattended.
- Long Text Messaging enables 1024-character text messages to be sent for advanced dispatch calls and job tasking requirements, giving companion 80-Series fleet mobiles extended data messaging capabilities (requires a compatible mobile data device and dispatch software).
- PC Serial Interface enables serial communications between an 80-Series mobile radio and a FleetSync® compatible peripheral device or computer application for an advanced FleetSync® communications system.

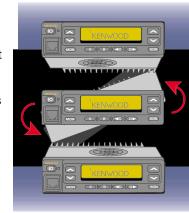
<sup>2</sup> Short Text Messaging (both portables and mobiles) requires the base station mobile to be interfaced with a computer running FleetSync®-compatible dispatch software.



# **PERFORMANCE**

# COMPACT VERSATILE MOUNTING

The TK-780(H)/880(H) lightweight and compact size facilitates easy mounting even in the tight or awkward positions of today's vehicles. The front panel can be inverted for correct viewing while leaving the built-in speaker facing away from the mounting surface.



# **COMPANDED AUDIO**

The compandor noise-reduction feature enhances audio clarity on narrow bandwidth systems and is programmable per channel. Voice intelligence components are amplified and compressed at the transmit end then re-expanded on the receive end to reproduce the original audio signal.

# STRENGTH & DURABILITY

# MULTIPLE SCANNING FUNCTIONS

System scan and group scan permit monitoring multiple systems and talk groups for calls. Priority scanning is available within programmed conventional systems. Talk Back scan permit users to respond immediately to calls ragardless of the pre-programmed or selected scan revert channels. Scan lists can be altered with the Add/Delete features.

## **DTMF SIGNALING & DIALING FEATURES**

DTMF PTT ID provides a built-in ANI for business and industrial applications (operates with KMC-27A/B or optional KMC-28A keypad microphone)\*. The optional KMC-28A keypad microphone adds manual DTMF for selective calling, system access, remote control applications and access to automatic dialing features such as the auto-dial memory for telephone interconnect and/or integrated Radio-PABX systems.

\*DTMF PTT ID is available in Conventional or Trunked Systems; DTMF PTT ID does not have an emergency ANI feature nor does it operate in conjunction with any of the emergency key or emergency calling features.

### **PUBLIC ADDRESS & HORN ALERT**

Public Address (PA) and Horn Alert (HA) capability is available with the optional KAP-1 unit. The PA functions outputs mic

audio through the radios external speaker or can feed a more powerful external public address amplifier. The Horn Alert output can be used to trigger a vehicle horn/light when a valid DTMF or Two-tone selective call is received.

# **SECURITY**

### **ENCRYPTION CONTROL**

Encryption control provides secure voice communications for law enforcement or private security. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types. The radio's programming also provides both automatic and manual control for clear and coded modes.

### DIGITAL ANI AND EMERGENCY CONTROL

Unique ID and emergency ANI operations can be added with optional modules. The recessed orange key is specifically designed for emergency ANI triggering.

# PASSWORD-PROTECTED PROGRAMMING AND CLONING

Cloning enables duplicating of radios in the field via a simple interface cable without the use of a PC or special test jigs. For users who do not require cloning capability, a secure password can be programmed to prevent cloning of a lost or stolen portable. Additionally, all radios can have the programming password(s) protected to prevent unauthorized program information extraction and duplication.

# RADIO LOCK PASSWORD

Preventing unauthorized use of stolen radios, this feature requires an access code to be entered every time the radio is powered up. This password — with a maximum of six digits — can be easily field programmed or modified by an authorized user (requires optional KMC-28A keypad microphone).

# **EMBEDDED MESSAGE**

The radio's flash memory can store an electronic message containing owner identification, property I.D. numbers, user and department names, service records, etc. A radio can be electronically identified even if external labels markings or factory serial numbers have been removed.

# OTHER FEATURES

■ BUILT-IN QT, DQT ■ DTMF AND 2-TONE (CONVENTIONAL MODE ONLY)
■ BUSY CHANNEL LOCKOUT ■ TIME OUT TIMER ■ MINIMUM VOLUME
■ MIL-STD 810C/D/E ENVIRONMENTAL TESTS

Features or specifications marked with an asterisk (\*) are only available in version 2.0 or later radio products. Contact Kenwood for details.