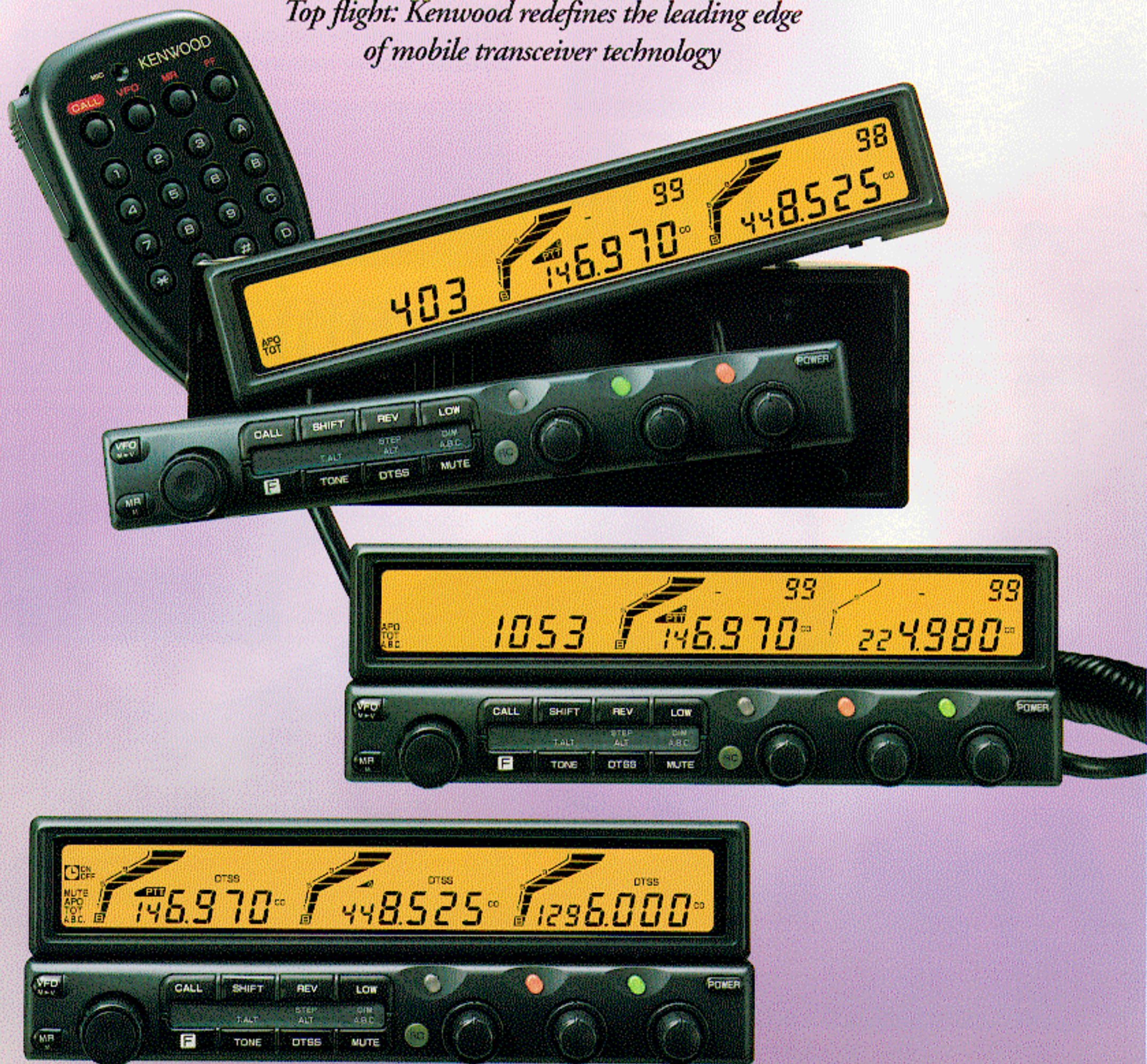


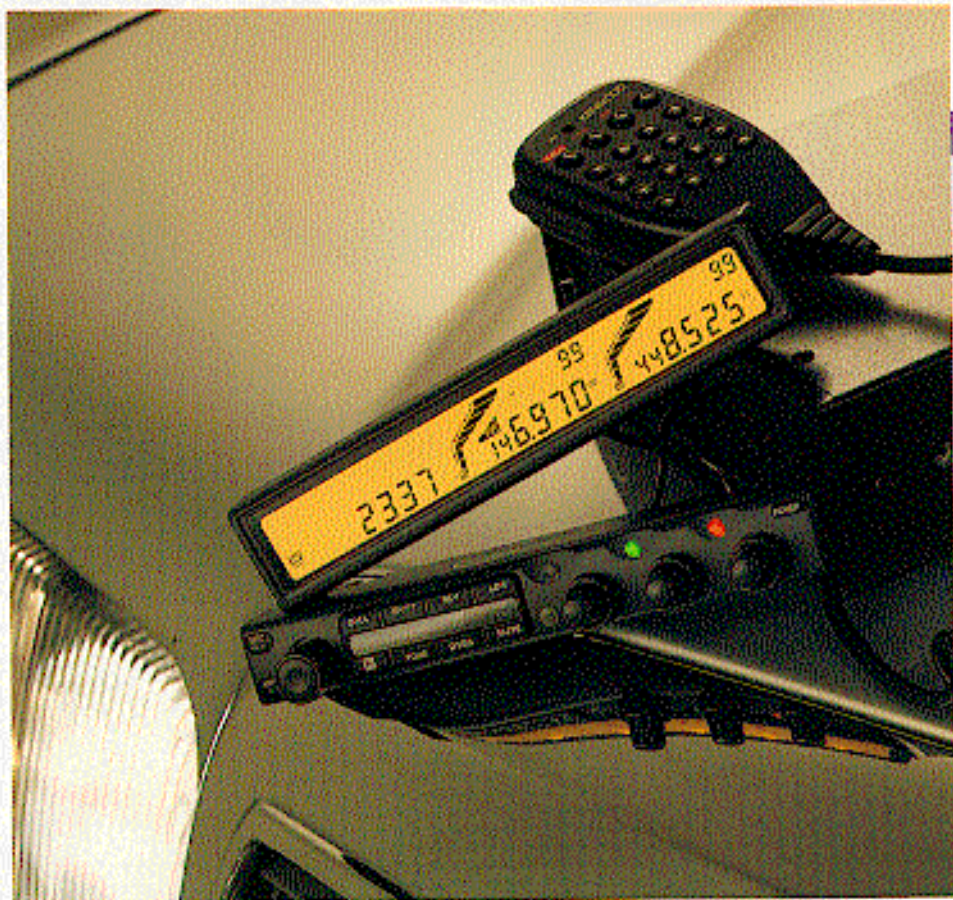
KENWOOD

MOBILE TRANSCEIVERS

TM-942A/742A/642A

*Top flight: Kenwood redefines the leading edge
of mobile transceiver technology*





Kenwood's distinctive TM-942A (144MHz/440MHz/1200MHz), TM-742A (144MHz/440MHz), and TM-642A (144MHz/220MHz) are high-performance FM multibanders that demonstrate the very best in mobile transceiver technology. Besides offering a triple receive and display capability, they can even receive three bands simultaneously (the TM-742A and TM-642A require optional band units). And with all three you can mount the controls and display separately (optional kit) for unique 3-way convenience.

Triple Advantage in Mobile Communications



TM-942A

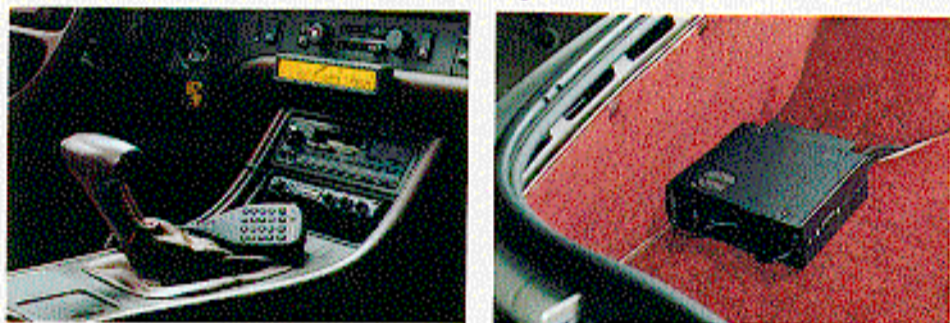
Triple receive function with triple display

The TM-942A, with maximum output of 50 watts (144MHz), 35 watts (440MHz), and 10 watts (1200MHz), can receive three bands (144MHz/440MHz/1200MHz) simultaneously, with all three frequencies displayed on the LCD panel. There are also five optional FM band units—28MHz (50 watts), 50MHz (50 watts), 220MHz (25 watts, TM-742A only), 440MHz (35 watts, TM-642A only), and 1200MHz (10 watts)—to give the TM-742A and TM-642A tri-band status. For low-power operations, there are 5- and 10-watt settings (1 watt on 1200MHz).



Detachable front panel kit (option)

Using the optional DFK-4 or DFK-7 cable kit, the main unit can be installed in the trunk. And all three kits (DFK-3, DFK-4 & DFK-7) allow the display and controls to be mounted separately—on either side of the steering wheel, for example.



Built-in DTSS selective calling with page

The built-in Dual-Tone Selective Squelch (DTSS) allows DTMF access to the transceiver, meaning that the squelch is opened only when a specific 3-digit code is received. Also, a page function alerts the you to incoming calls and opens the squelch if the receiver has been programmed to accept a certain DTMF tone group.

101 memory channels & memory bank system

For each band, there are 100 memory channels—divided into 5 banks—plus 1 call channel. These store frequency, tone frequency, tone status, CTCSS status, STEP, SHIFT, REV, DTSS and DTSS code data. Each channel can store transmit and receive frequencies independently for odd split repeaters. Also, adjacent memory banks may be linked, and the amount of memory used in each bank is displayed.



TM-742A

Flexible scan and scan stop modes

In addition to full band and programmable band scans, there is memory scan with programmable memory channel lock-out, single memory bank scan, MHz scan (scans a 1MHz range), and auto memory scan (memorizes the frequencies of busy channels), as well as C/V/M, C/V and C/M scans which alternately scan between the call channel and the last frequency (VFO and/or memory). Scan stop modes include TO (stops on a busy channel for 5 seconds, then resumes), and CO (stops on a busy channel and resumes scan 2 seconds after the signal drops out).

Tone alert system with elapsed time indicator

The tone alert system can be activated independently for each band. Elapsed time (up to 59 hours 59 minutes) and the number of calls (up to 15) also appear on the display.

Triple repeater functions

Any two bands can be chosen for cross-band repeater use. With 3 bands available, one can be chosen for TX while the other two are dedicated to RX use.

Selectable frequency step

The following steps are available: 5, 10, 12.5, 15, 20, 25kHz (VHF/UHF bands); and 10, 20, 12.5, 25kHz (1200MHz band).

S meter squelch

This enables you to determine what signal strength is required to open the squelch or to stop scanning; weaker signals will be ignored. Noise squelch and auto squelch are also available.

Optional CTCSS unit (TSU-7)

Any 38 sub-tone frequency can be selected and stored in any memory channel for instant recall. Moreover, the optional TSU-7 tone decoder unit provides all 37 EIA-standard CTCSS frequencies.

- Separate antenna and speaker terminals for each band
- Separate control & display units (optional cable kits)
- Independent SQL & VOL controls for each band
- Automatic band change
- Sub-band muting circuit
- High-visibility illuminated keys
- Direct frequency entry with multi-function microphone (supplied)
- Multiple lock functions
- Wireless remote control function
- Date & time display, stopwatch, alarm & on/off timer
- Time-out timer
- Auto power-off with warning beeper



TM-642A

Optional Accessories

MC-60A
Deluxe Desktop Microphone
(50k Ω /500 Ω , 8 pin)



MC-55
Mobile Microphone*



MC-80
Stand Microphone*
(700 Ω , 8 pin)



MC-85
Multi-Function Desktop
Microphone* (700 Ω , 8 pin)



SP-50B
Mobile Speaker



SP-41
Compact Mobile Speaker



PS-35
Power Supply (20.5A)



MA-700
Dual-Band Mobile Antenna with
Duplexer (144MHz/440MHz)



TSU-7
CTCSS Unit



MB-14
Mobile Mount



MB-11
Mobile Mount



PG-3B
DC Line Noise Filter



PG-3G
DC Line Noise Filter



PG-2N
Power Cable



MJ-88
Microphone Plug Adapter
(modular to 8 pin)



UT-1200
1200MHz FM unit
(10/1W, TM-642A/742A only)



UT-440S
440MHz FM unit
(35/10/5W, TM-642A only)



UT-220S
220MHz FM unit
(25/10/5W, TM-742A only)



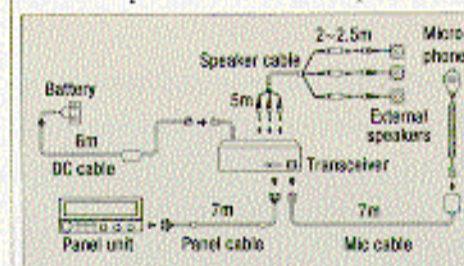
UT-50S
50MHz FM unit
(50/10/5W, TM-742A/642A only)



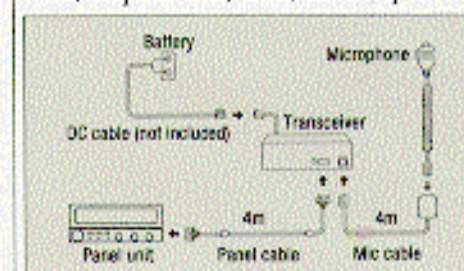
UT-28S
28MHz FM unit
(50/10/5W, TM-742A/642A only)



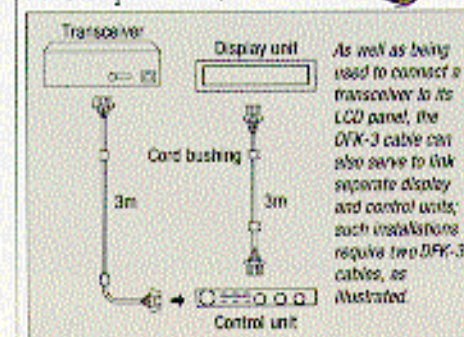
DFK-7
Detachable Front Panel Kit
(includes panel mount & cushion, 23.0ft/7m
panel cable, 23.0ft/7m microphone cable,
16.4ft/5m speaker cable, 19.7ft/6m power cable)



DFK-4
Detachable Front Panel Kit
(includes panel mount & cushion,
13.1ft/4m panel cable, 13.1ft/4m microphone cable)



DFK-3
Detachable Front Panel Kit
(includes panel mount & cushion,
9.9ft/3m panel cable)



Specifications

	TM-942A	TM-742A	TM-642A
GENERAL			
Frequency Range			
28 MHz:	—	(option)	(option)
50 MHz:	—	(option)	(option)
144 MHz:	TX: 144 – 148 MHz RX: 118 – 174 MHz	TX: 144 – 148 MHz RX: 118 – 174 MHz	TX: 144 – 148 MHz RX: 118 – 174 MHz
440 MHz:	TX: 438 – 450 MHz RX: 410 – 470 MHz	TX: 438 – 450 MHz RX: 410 – 470 MHz	(option)
220 MHz:	—	(option)	TX: 222 – 225 MHz RX: 215 – 235 MHz
1200 MHz:	TX: 1240 – 1300 MHz RX: 1240 – 1300 MHz	(option)	(option)
Mode	F3E (FM) (A3E (AM) RX: 118 – 138 MHz)		
Power Requirement	13.8 V DC \pm 15%		
Current Drain (approx.)			
Transmit (13.8 V DC)	144 MHz: Less than 11.5 A		
	440 MHz: Less than 10.0 A	220 MHz: Less than 7.0 A	
Receive (13.8 V DC)	1200 MHz: Less than 6.5 A		
	Less than 1.2 A		
Ground	Negative		
Operating Temperature Range	20°C – +60°C		
Antenna Impedance	50 Ω		
Microphone Impedance	600 Ω		
Dimensions (W x H x D) (projections not included)	5-7/8 x 1-15/16 x 8-7/8 in. (150 x 50 x 175 mm)		
Weight	3.9 lb (1.8 kg)	3.3 lb (1.5 kg)	
TRANSMITTER			
RF Output Power			
H I	144 MHz: 50 W		
	440 MHz: 35 W	220 MHz: 25 W	
	1200 MHz: 10 W	—	
MID	10 W		
LO (approx.)	5 W (1200 MHz: 1 W)	5 W	
Modulation	Reactance		
Frequency Tolerance	\pm 10 ppm		
Maximum Frequency Deviation	\pm 5 kHz		
Spurious Radiation	Less than -60 dB (1200 MHz: -50 dB)	Less than -60 dB	
Modulation Distortion	Less than 3% (300 Hz – 3 kHz)		
RECEIVER			
Circuitry	Double conversion superheterodyne		
Intermediate Frequency			
1st IF	144 MHz: 10.695 MHz		
	440 MHz: 21.6 MHz	220 MHz: 30.825 MHz	
	1200 MHz: 59.7 MHz	—	
2nd IF	455 kHz		
Sensitivity (12 dB SINAD)	Less than 0.16 μ V	Less than 0.18 μ V	Less than 0.16 μ V (144 MHz) / 0.18 μ V (220 MHz)
Selectivity	Greater than 12 kHz		
-6 dB	Less than 24 kHz (1200 MHz: 36 kHz)		
-90 dB	Less than 24 kHz		
Squelch Sensitivity	Less than 0.1 μ V		
Audio Output Power	More than 2 W (8 Ω , 5% distortion)		

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice. These specifications are guaranteed for Amateur Bands only.

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KENWOOD COMMUNICATIONS CORPORATION

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*requires MJ-88