

KENWOOD

TM-G707A

FM DUAL BANDER

There's an open road ahead for the future of mobile communications — Kenwood's thoroughbred TM-G707A FM dual-bander (144MHz/440MHz).



The Essence of Ease: Mobile Communications at Large

From the extra-large control panel — with the welcoming glow of its amber-colored LCD — to Kenwood's new Easy Operation mode, the TM-G707A is extraordinarily user-friendly. That, after all, is a design imperative for mobile communications equipment. But this FM dual-band (144MHz/440MHz) transceiver goes well beyond the call of duty, offering a "five-in-one" programmable memory, a Memory Name function, and numerous other features that make operation more natural than ever. Optimized convenience goes hand in hand with the polished performance of the TM-G707A.



TM-G707A

144/440MHz FM DUAL BANDER

■ High-visibility display

Capable of displaying up to 7 large alphanumeric characters — in either frequency or Memory Name mode — the positive-type amber LCD comes with a 4-step dimmer control to suit all driving conditions, day or night. A thoughtful touch is the automatic brightening during operation.

■ Easy Operation mode

This mode allows the transceiver to be operated as easily as a car radio. You simply choose a frequency and press one of the 3 memory keys for one second to save it. A light touch on the same key is all that is required for recall, after which the encoder can be used to tune above or below that frequency.

■ "Five-in-one" programmable memory

In addition to its regular profile, the TM-G707A can store four other operating profiles — complete with frequency range, dimmer level, and other details — ready for instant recall at the push of a button. You can further choose automatic updating of the current profile if you wish.

■ 180 multi-function memory channels

There is no shortage of capacity: 180 memory channels are available for storing such important data as transmit and receive frequencies (independently, thus allowing split-frequency operations), frequency step, and tone frequency.

■ Memory Name function

A convenience that is especially welcome for mobile applications is this function which, as its name suggests, allows you to identify each of the 180 channels with up to 7 alphanumeric characters. You can also switch instantly between the frequency and Memory Name displays.



■ Multi-scan functions

User-friendliness is further enhanced by full band and program band scans, memory scan with memory channel lock-out, MHz scan and call scan. For each band there are TO (time-operated) and CO (carrier-operated) scan stop modes.

■ Priority scan function

Of special note is priority scan, available in two modes: choose mode A to check every 3 seconds, whether or not the displayed frequency is busy; or choose mode B to check at the same interval, but only when the displayed frequency is not busy.

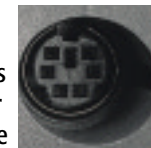


■ Built-in CTCSS encoder/decoder

The CTCSS (Continuous Tone Coded Squelch System) encoder/decoder enables operation of the 38 EIA-standard CTCSS subtone frequencies including tone scan.

■ 6-pin mini DIN connector for 1200/9600bps packet

The front panel features a connector for hooking up to a TNC, enabling either standard 1200bps or 9600bps high-speed packet or APRS communications. This same connector can also be used for PC programming of the transceiver.



■ Cross-band repeater access

You can access cross-band repeaters using two frequencies for sending and receiving (though not simultaneously).

■ Quick-release detachable front panel kit (option)

If you are concerned about security, simply remove the compact front panel whenever your vehicle is left unattended. If one of the 3 optional quick-release kits is used, the panel can be mounted virtually anywhere since the microphone cable connects directly to the main unit.

■ CTCSS receive tone frequency display

■ Superior intermodulation rejection characteristics

■ Selectable frequency step (5, 6.25, 10, 12.5, 15, 20, 25 or 50kHz)

■ Voice Guide (requires VS-3 option)

■ Incremental MHz key

■ AIP (Advanced Intercept Point)

■ Memory shift (odd split)

■ S-meter squelch

■ Power-on message

■ 3-position RF output power control

■ Dimmer control

■ Time-out timer (TOT)

■ Auto power-off circuit

■ Heavy-duty construction

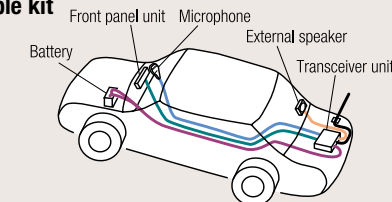
■ Supplied MC-53DM multi-function backlit microphone with DTMF

■ Quick-release front panel installations

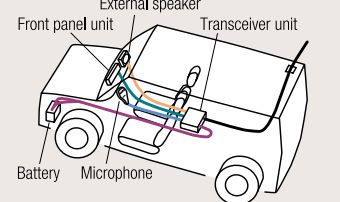
The typical installations illustrated here demonstrate just two of the many ways in which detachable front panel kits may be used with the TM-G707A. For a minivan, the main unit can be installed out of the way

under a front seat. In the case of a passenger car, it can be installed in the trunk. The choice of cable lengths ensures full versatility to suit a wide variety of vehicles.

■ DFK-7C cable kit



■ DFK-4C cable kit



Note: Not all kits are sold as shown; see Optional Accessories for exact kit contents.

Optional Accessories

MC-80
Desktop Microphone
(requires MJ-88)



PG-5A
Data Cable



MC-60A
Deluxe Desktop
Microphone
(requires MJ-88)



PS-40
DC Switching
Power Supply



MC-53DM
Multi-function
Backlit Microphone
with DTMF
(supplied)



MB-201*
Mobile Mount
*There are certain
restrictions on
installation.



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



SP-50B
Mobile Speaker



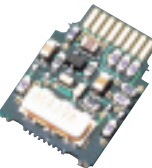
MJ-89
Microphone
Switcher



SP-41
Compact
Mobile Speaker



VS-3
Voice Synthesizer



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



PG-4S
PC Connection
Cable



PG-3B
DC Line Noise
Filter



PG-3G
DC Line Noise
Filter



PG-2N
Power Cable



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



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



Specifications

		TM-G707A
GENERAL		
Frequency Range	144 MHz: TX: 144 ~ 148 MHz RX: 118 ~ 174 MHz 440 MHz: TX: 430 ~ 450 MHz RX: 410 ~ 524 MHz	
Mode	F3E (FM)	
Power Requirement	13.8 V DC $\pm 15\%$, negative ground	
Current Drain		
Transmit		
HI	144 MHz:	Less than 11 A
MID	440 MHz:	Less than 10 A
LO	144 MHz:	Less than 5.5 A
LO	440 MHz:	Less than 6.5 A
LO	144 MHz:	Less than 4.0 A
LO	440 MHz:	Less than 5.0 A
Receive	144 / 440 MHz:	Less than 1.0 A
Operating Temperature Range	-4°F ~ +140° F (-20°C ~ +60°C)	
Antenna Impedance	50 Ω	
Microphone Impedance	600 Ω	
Frequency Tolerance	± 3 ppm (+14°F ~ +122° F)	
Dimensions (W x H x D) [projections not included]	5-1/2 x 1-9/16 x 7-7/16 ins. (140 x 40 x 189 mm)	
Weight	2.65 lbs. (1.2 kg)	

TRANSMITTER

RF Output Power		
HI	144 MHz:	50 W
MID (approx.)	440 MHz:	35 W
LO (approx.)	10 W	5 W
Modulation	Reactance modulation	
Maximum Frequency Deviation	Less than ± 5 kHz	
Spurious Radiation	Less than -60 dB	
Modulation Distortion	Less than 3% (300 Hz ~ 3 kHz)	

RECEIVER

Circuitry	Double conversion superheterodyne	
Intermediate Frequency		
1st IF	144 MHz/440 MHz: 38.85 MHz	
2nd IF	144 MHz/440 MHz: 450 kHz	
Sensitivity (12 dB SINAD)	144 MHz/440 MHz: Less than 0.22 μ V	
Selectivity		
-6 dB	More than 12 kHz	
-60 dB	Less than 28 kHz	
Squelch Sensitivity	144 MHz/440 MHz: Less than 0.11 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.



ISO 9001
JQA-1205

Communications Equipment Division
Kenwood Corporation
ISO9001 certification

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