

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 the name suggests, allows you to identify each of the 180 channels with up to 7 alphanumeric characters. You can also switch instantly between 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 1200 or 9600bps high-speed packet APRS communications. This 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

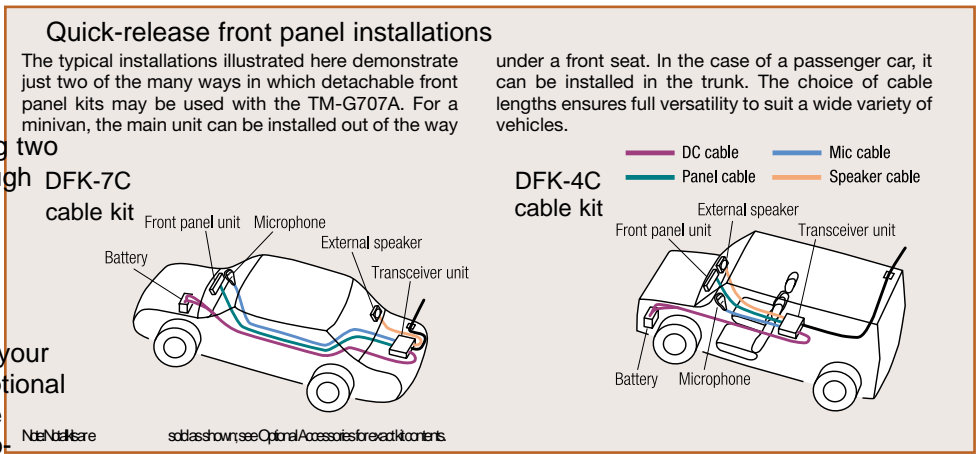
Dimmer control

Time-out timer (TOT)

Auto power-off circuit

Heavy-duty construction

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



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



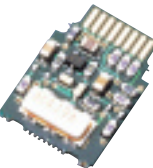
MJ-89
Microphone
Switcher



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 ±15%, negative ground	
Current Drain		
Transmit		
HI	144 MHz:	Less than 11 A
	440 MHz:	Less than 10 A
MID	144 MHz:	Less than 5.5 A
	440 MHz:	Less than 6.5 A
LO	144 MHz:	Less than 4.0 A
	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
	440 MHz:	35 W
MID (approx.)	10 W	
LO (approx.)	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 μV	
Selectivity		
-6 dB	More than 12 kHz	
-60 dB	Less than 28 kHz	
Squelch Sensitivity	144 MHz/440 MHz: Less than 0.11 μV	
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

KENWOOD CORPORATION

14-6, 1-chome, Dogenzaka, Shibuya-ku, Tokyo 150-8501, Japan
KENWOOD COMMUNICATIONS CORPORATION
AMATEUR RADIO PRODUCTS GROUP
P.O. Box 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.
Customer Support/Brochures (310) 639-5300

KENWOOD ELECTRONICS CANADA INC.
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8