

KENWOOD

Listen to the Future

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 C

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

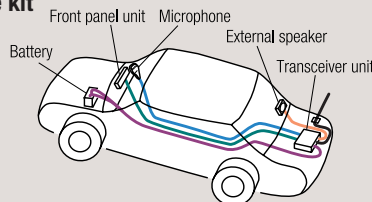
■ Supplied MC-53DM multi-function backlit microphone with DTMF

■ Quick-release front panel installations

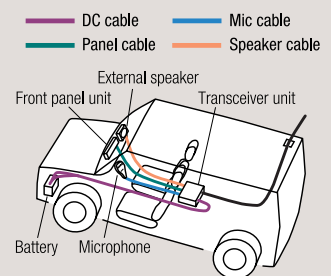
The typical installations illustrated here demonstrate just two of the many ways in which detachable front panel kits may be used with the TM-G707A. For a minivan, the main unit can be installed out of the way

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-60A

Deluxe Desktop Microphone (requires MJ-88)



KPS-15

DC Switching Power Supply



MC-58DM

Multi-function Backlit Microphone with DTMF (supplied)



MB-201*

Mobile Mount
*There are certain restrictions on installation.



SP-50B

Mobile Speaker



MJ-88

Microphone Plug Adapter (modular to 8-pin)



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



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)



PG-3B

DC Line Noise Filter



PG-3G

DC Line Noise Filter



PG-2N

Power Cable



PG-5A

Data 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 | \pm 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 | |
| LO (approx.) | 5 W | |
| Modulation | Reactance modulation | |
| Maximum Frequency Deviation | Less than \pm 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.

KENWOOD

Kenwood U.S.A. Corporation

Communications Sector Headquarters

3975 Johns Creek Court, Suite 300, Suwanee, GA 30024-1265

Order Administration/Distribution

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745

Kenwood Electronics Canada Inc.

Canadian Headquarters and Distribution

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8



ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

ADS#08706 Printed in USA