

## Optional Accessories

**BT-13**  
Battery Case



**PB-42L**  
Li-ion Battery Pack



**SMC-32**  
Speaker Microphone



**SMC-33**  
Speaker Microphone  
with Remote Control



**SMC-34**  
Speaker Microphone  
with Volume & Remote  
Control



**HMC-3**  
Headset with VOX & PTT



**KHS-21**  
Headset without VOX & PTT



**EMC-3**  
Clip Microphone  
with Earphone & PTT



**PG-3J**  
Cigar Lighter Cord  
with Noise Filter



**PG-2W**  
DC Cable



## Specifications

TH-F6A			
<b>GENERAL</b>			
Frequency Range	144MHz: 144 - 148 / 137 - 174MHz 220MHz: 222 - 225 / 216 - 260MHz 440MHz: 430 - 450 / 410 - 470MHz		
Main A-band guaranteed range (TX or RX)	144MHz: 144 - 148MHz 220MHz: 222-225MHz 440MHz: 438-450MHz RX: 0.1 - 1300MHz*		
Sub B-band			
Modulation	F3E (FM), F1D (FSK), F2D		
Main A-band	F2D, F3E (FM), A1A (CW), A3A (AM), J3E (SSB)		
Sub B-band (reception)	50Ω		
Antenna Impedance			
Current Voltage Range	DC 5.5 V - 7.5V (standard voltage: DC 7.4V)		
Battery terminal	DC 12.0V - 16.0V (standard voltage: DC 13.8V)		
External battery terminal			
Power Consumption (approximate figures)	144MHz	220MHz	440MHz
Transmission (single band)	2.0A	2.0A	2.0A
Hi: DC 13.8V (DC-IN terminal)	2.0A	2.0A	2.0A
Hi: DC 7.4V (battery terminal)	0.8A	0.8A	0.8A
LOW: DC 7.4V (battery terminal)	0.5A	0.5A	0.5A
EL: DC 7.4V (battery terminal)			
Reception			
Standby (single band)	100mA	100mA	100mA
Average battery save (single band)	30mA	30mA	30mA
Simultaneous reception			
Standby (dual-band)	170mA	170mA	170mA
Average battery save (dual-band)	35mA	35mA	35mA
Dimensions (W x H x D) / Net Weight (approx)	2-5/16" x 3-7/16" x 1-3/16" (58 x 87 x 30mm) With PB-42L Li-ion Battery Pack including projections 2-3/8" x 4-1/8" x 1-3/8" / 8.8oz (61 x 104 x 35mm / 250g) With BT-13 Battery Case including projections 2-3/8" x 4-1/8" x 1-1/2" / 9.8oz (61 x 104 x 38mm / 280g)		
Operating Temperature Range	-4° - 140°F (-20 - +60° C)		
With supplied Li-ion Battery	-14° - 122°F (-10 - +50° C)		
<b>RECEIVER</b>			
Circuitry	Double super heterodyne (except for W-FM) Single conversion (W-FM)		
Intermediate Frequency	Main A band	Sub B band: FM/AM/SSB	Sub B band: W-FM
1 <sup>st</sup> IF	59.85MHz	57.60MHz	10.8MHz
2 <sup>nd</sup> IF	450kHz	450kHz	
Sensitivity	Main A band: 144/220/440MHz (FM 12dB SINAD) Sub B band: AM (approximate)		
	Less than 0.18 μV 7.08 μV (0.3 - 0.52MHz) 2.24 μV (0.52 - 1.8MHz) 0.89 μV (1.8 - 50MHz) 0.40 μV (118 - 250MHz) 0.40 μV (380 - 500MHz)		
	Sub B band: FM (approximate)		
	0.40 μV (5 - 108MHz) 0.28 μV (118 - 144MHz) 0.22 μV (144 - 225MHz) 0.39 μV (225 - 250MHz) 0.40 μV (380 - 400MHz) 0.22 μV (400 - 450MHz) 0.40 μV (450 - 520MHz) 7.08 μV (520 - 700MHz) 1.26 μV (800 - 950MHz) 0.40 μV (950 - 1300MHz)		
	Sub B band: W-FM (approximate)		
	3.16 μV (50 - 108MHz) 2.82 μV (150 - 222MHz) 3.98 μV (400 - 500MHz)		
	Sub B band: SSB (approximate)		
	0.45 μV (3 - 30MHz) 0.40 μV (30 - 50MHz) 0.22 μV (144 - 148MHz) 0.22 μV (430 - 450MHz)		
Squelch	Less than 0.13 μV		
Selectivity	More than 12kHz Less than 28kHz		
-6dB			
-40dB			
Low frequency output (at 8 ohms, 10% distortion)	More than 300mW at 7.4V		
<b>TRANSMITTER</b>			
RF Output Power (approximate)	144MHz	220MHz	440MHz
DC IN:	5 / 2 / 0.5W	5 / 2 / 0.5W	5 / 2 / 0.5W
Li-ion:	5 / 0.5 / 0.05W	5 / 0.5 / 0.05W	5 / 0.5 / 0.05W
BT-13:	0.5 / 0.3 / 0.05W	0.5 / 0.3 / 0.05W	0.5 / 0.3 / 0.05W
Modulation	Reactance modulation		
Maximum Frequency Deviation	FM: ±5kHz, N-FM: ±2.5kHz		
Spurious Radiation	Less than -60dB / -50dB / -40dB		
Hi / LOW / EL	±5 ppm (-10 - 50° C), ±8 ppm (-20 - 60° C)		
Frequency Stability	Less than 3% (300 - 3kHz)		
Modulation Distortion			
Microphone Impedance	2kΩ		

\* Reception of the following frequency ranges is disabled in accordance with FCC regulations:  
824 - 849MHz and 869 - 894MHz  
Except for sensitivity, specifications are guaranteed for Amateur bands only.

Kenwood follows a policy of continuous advancement in development.  
For this reason specifications may be changed without notice.



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# KENWOOD

## TH-F6A

144/220/440MHz FM TRIBANDER

Simultaneous 2 frequency RX,  
even on the same band

FM/FM-W/FM-N/AM plus  
SSB/CW receive

0.1 ~ 1300MHz  
high-frequency range RX  
(Sub B band)

7.4V 1550mAh  
lithium-ion battery for 5W output  
and extended operation

Special weather channel  
RX mode

Not all accessories may be available, please contact dealers for details.

## KENWOOD CORPORATION

14-6, 1-chome, Dogenzaka, Shibuya-ku, Tokyo 150-8501, Japan

KENWOOD COMMUNICATIONS CORPORATION  
Headquarters

3975 Johns Creek Court, Suwanee, GA 30024-1265

Order Administration/ Customer Support/ Distribution  
P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745

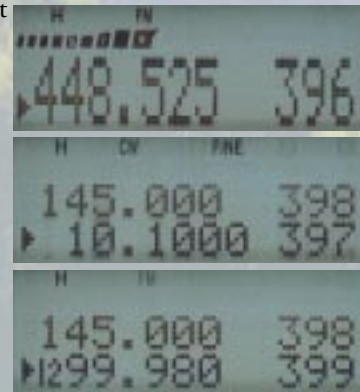
KENWOOD ELECTRONICS CANADA INC.  
Canadian Headquarters and Distribution

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

# Small is beautiful: Kenwood's super-compact FM tribander with dual-channel RX!

## Priority on operating ease

Simple operation is an essential component of this FM tribander, and Kenwood engineers have ensured that it can be operated effortlessly with one hand. Your attention is drawn to the easy-to-read LCD — equipped with both contrast control and backlight — displaying essential frequency and memory information, intuitive menus, and multi-level battery status. In mono-band mode, the size of the frequency display is doubled for even greater visibility.



## Multi-scroll key & 16-key pad

Operating ease is further enhanced with the multi-scroll key. Similar to the control found on some cellular phones, this can be rocked up & down, left & right with the thumb.



Vertical operation controls frequency, while horizontal movement controls band selection. There is also a 16-key pad with keys that are ergonomically spaced and illuminated for nighttime use.

## 435 memory channels, multiple scan functions

Other specifications are equally impressive: 435 memory channels, including 3 call channels and another 20 for programmable scan. A complete range of scan functions is provided — including MHz, memory, call, tone, CTCSS and DCS. Group scan mode covers 8 groups of 50 channels each. And you can choose between time-operated (TO) and carrier-operated (CO) busy-stop-resume (SE).

## Multi-band transceiver (Main band) + wideband receiver (Sub band)

As polished as the user interface may be, it's what is inside that counts. And the TH-F6A counts twice over: it's both a 3-band transceiver (Main A band) and a wideband 0.1-1300MHz receiver<sup>1</sup> (Sub B band). In addition to FM/FM-W/FM-N/AM and SSB/CW, the receiver section offers a special weather channel mode,<sup>2</sup> built-in ferrite bar antenna<sup>3</sup> for receiving AM broadcasts, and Fine mode — with selectable increment (33/100/500/1000Hz<sup>4</sup>) — for extra-accurate SSB tuning. What's more, this handheld transceiver can receive 2 frequencies simultaneously, even on the same band. Versatility is first rate.

<sup>1</sup> Not all frequencies are available.

<sup>2</sup> 10 channels. NOAA Weather Radio is a nationwide network of radio stations broadcasting weather, warnings, forecasts and hazard information 24 hours a day.

<sup>3</sup> Switchable with external antenna. <sup>4</sup> Increment figures are approximate.



Internal ferrite bar antenna

## Tough construction

The smaller a transceiver, the farther it is likely to travel. Fortunately, the TH-F6A is built to take rough treatment in stride, satisfying the stringent MIL-STD 810 C/D/E standards for resistance to vibration, shock, humidity and light rain.



Nestled in the palm of your hand, Kenwood's new TH-F6A is incredibly small— just 2-5/16 x 3-7/16 x 1-3/16 inches (WxHxD). How could so much be packed into such a super-compact design? Impossible! But it's true. This little wonder is an FM tribander (144/220/440MHz) with dual-channel RX capability, 16-key pad, multi-scroll key, and no fewer than 435 memory channels. Other attractive features include a built-in ferrite bar antenna for AM broadcasts, LCD with backlight, and a lithium-ion battery. Small enough to slip into a pocket, the TH-F6A allows you to roam freely while enjoying the clear, reliable communications for which Kenwood is renowned. And despite its smart looks, it's tough enough to meet MIL-STD criteria for withstanding the rigors of outdoor use, while delivering superb performance.

## Lithium-ion battery

Equipped as standard is a powerful 7.4V 1550mAh lithium-ion battery, offering high output — with selectable HI/LOW/EL settings — and longer operation than a Ni-Cd battery. And as the charging circuitry is built-in, the battery can be charged while the TH-F6A is operating from a DC (13.8V) supply.

		Operation time: duty cycle @ 6-6-48 (hours)		
		144MHz	220MHz	440MHz
Supplied Li-ion battery	HI	6.5	6	6
	LOW	12	11.5	11.5
	EL	16	15.5	14.5
Optional alkaline batteries with BT-13 battery case	HI	5	5	5
	LOW	6	6	6
	EL	8	8	8

Approximate figures

- Selectable squelch configuration
- Memory shift
- Key lock
- Built-in CTCSS (42 subtone frequencies), DCS (104 codes), 1750Hz tone burst
- Compatible with external 1200/9600bps TNC
- Large frequency display for single-band use
- Time-out timer & APO (OFF/30/60 min)
- Automatic simplex checker
- Wireless remote control function
- ATT (attenuator) on/off
- Internal VOX
- MCP Software (Free download from Kenwood website)

## Supplied accessories

- Belt hook
- Whip antenna
- Hand strap
- 7.4V 1550mAh lithium-ion battery
- AC adapter

## Wideband reception: Cautions regarding use

- The sub band is used for wideband reception. It offers more basic performance than a dedicated band receiver. In an area of very strong signals, it may be advisable to switch the attenuator on for certain bands. Remember that the antenna determines reception quality. You will enjoy better reception, therefore, if you devise an antenna that is tailored for your target band.
- The SSB/CW filters offer basic performance, so in some cases you may experience interference.
- In addition to dual watch, this product is designed for wideband reception. Consequently, multiple beats (cross and internal) are generated from the frequency structure. Those frequencies effectively blocked by the major crossbeat signals can be calculated using the formula given in the user manual.\* Note that it is possible to move an internal beat away from the target signal using the beat shift function.
- If output is set to HI (5W) while using an external power source, for safety reasons an automatic protection mechanism is engaged if the product becomes too hot. Output is then reduced to 0.5W. (Exactly when this is engaged will vary depending on ambient temperature, but for example continuous transmission for about 5 minutes at room temperature will be sufficient to trigger the mechanism.) For heavy-duty use, you should set output to LOW (2W).
- When operating this product from an external power source, if the latter's voltage rises above 14.5V, transceiver output will be automatically switched to 0.5W.

\*Formula and more details on wideband reception cautions are available on our website: [www.kenwoodcorp.com/i/products/info/amateur.html](http://www.kenwoodcorp.com/i/products/info/amateur.html)

Actual size