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



PC Connection Cable



Cigar Lighter Cord with Noise Filter



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

Specifications

	TH-F6A				
GENERAL					
Frequency Range					
Main A-band (TX/RX)		MHz: 144 - 148 / 137			
	220MHz: 222 - 225 / 216 - 260MHz				
	440MHz: 430 - 450 / 410 - 470MHz				
Main A-band guaranteed range (TX or					
	220MHz: 222-225MHz 440MHz: 438-450MHz				
Sub B-band		BX: 0.1 ~ 1300MHz*1			
Modulation		nx. 0.1 ~ 1300WI1Z			
Main A-band		F3E (FM), F1D (FSK), F	2D		
Sub B-band (reception)		F2D, F3E (FM), A1A (CW), A3A (AM), J3E (SSB)			
Antenna Impedance	TZD, TSE (F2D, F3E (FIVI), ATA (CW), A3A (AIVI), J3E (33B) 50Ω			
Current Voltage Range		3022			
Battery terminal	DC 5.5.V	_ 7 5V (etandard volta)	no: DC 7 4\A		
External battery terminal		DC 5.5 V – 7.5V (standard voltage: DC 7.4V) DC 12.0V – 16.0V (standard voltage: DC 13.8V)			
Power Consumption (approximate figures		- 10.0V (Standard Volta	ge. DO 13.0V)		
Transmission (single band)	144MHz	220MHz	440MHz		
HI: DC 13.8V (DC-IN terminal)	1.8A	2.0A	2.0A		
HI: DC 7.4V (battery terminal)	2.0A	2.0A	2.0A		
LOW: DC 7.4V (battery terminal)	0.8A	0.8A	0.8A		
EL: DC 7.4V (battery terminal)	0.5A	0.5A	0.5A		
Reception	0.5A	0.5A	0.5A		
Standby (single band)	100mA	100mA	100mA		
Average battery save (single band))	30mA	30mA	30mA		
Simultaneous reception	JOHA	JUITA	JULIA		
Standby (dual-band)	170mA	170mA	170mA		
Average battery save (dual-band)	35mA	35mA	35mA		
Dimensions (W x H x D) / Net Weight (ap		OOMIN	OOMIN		
With PB-42L Li-ion Battery Pack		7/16" x 1-3/16" (58 x	87 x 30mm)		
including projections		3/8" x 4-1/8 x 1-3/8" / 8.8oz (61 x 104 x 35mm / 250g)			
With BT-13 Battery Case		2-5/16" x 3-7/16" x 1-1/2" (58 x 87 x 38mm)			
including projections		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)		
RECEIVER					
Circuitry	Double s	uner heterodyne (eycen	nt for W-FM)		

With BT-13 Battery Case		2-5/16" x 3-7/16" x 1-1/2" (58 x 87 x 38mm)			
including projections		2-3/8" x 4-1/8 x 1-1/2" / 9.8oz (61 x 104 x 38mm / 280g)			
Operating Temperature Range With supplied Li-ion Battery		-4° ~ 140°F (-20 ~ +60° C) -14° ~ 122°F (-10 ~ +50° C)			
RECEIVER					
Circuitry	Double	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-FN		
1 st IF	59.85MHz	57.60MHz	10.8MHz		
2 nd IF	450kHz	450kHz			
Sensitivity					
Main A band: 144/220/440MHz (F	M 12dB SINAD)	Less than 0.18 μV			
Sub B band: AM (approximate)		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)			
		0.89 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 – 1300MH			
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)		$0.45 \mu\text{V}(3 - 30\text{MHz})$			
		0.40 μV (30 – 50MHz)			
		0.22 μV(144 – 148MHz)			
Squelch		0.22 μV (430 – 450MHz) Less than 0.13 μV			
Selectivity		2000 man 0.10 μv			
-6dB		More than 12kHz			
-40dB		Less than 28kHz			
Low frequency output (at 8 ohms, 10	% distortion)	More than 300mW at 7.4	V		
TRANSMITTER					
RF Output Power (approximate)	144MHz	220MHz	_440MHz		

Frequency Stability
Modulation Distortion ± 5 ppm (-10 \sim 50° C), ± 8 ppm (-20 \sim 60° C) Less than 3% (300 ~ 3kHz) Microphone Impedance *1 Reception of the following frequency ranges is disabled in accordance with FCC regulations: 824 ~ 849MHz and 869 ~ 894MHz

5*2 / 2 / 0.5W 5 / 0.5 / 0.05W

5*²/2/0.5W

5 / 0.5 / 0.05W

0.5 / 0.3 / 0.05W

Reactance modulation

FM: ±5kHz, N-FM: ±2.5kHz

Less than -60dB / -50dB / -40dB

*² Figure not approximate

Maximum Frequency Deviation

More than 1W/Less than 0.1~1W/ Less than 0.1W

LI-ion:

Modulation

Spurious Radiation

HI / LOW / EL

HI / LOW / EL

*3 RF output power in DC-IN mode: Factory preset is 5W but for safety reasons, when the receiver is using an external power source in the high-power 440MHz range mode, it will automatically switch to 0.5W (approx.) if temperature in the main unit increases. The time for automatic switchover will vary according to ambient temperature; however, it should normally take approximately two to five minutes in continuous operation. For continuous operation, it is highly recommended that LOW power (approx. 2W) be used.

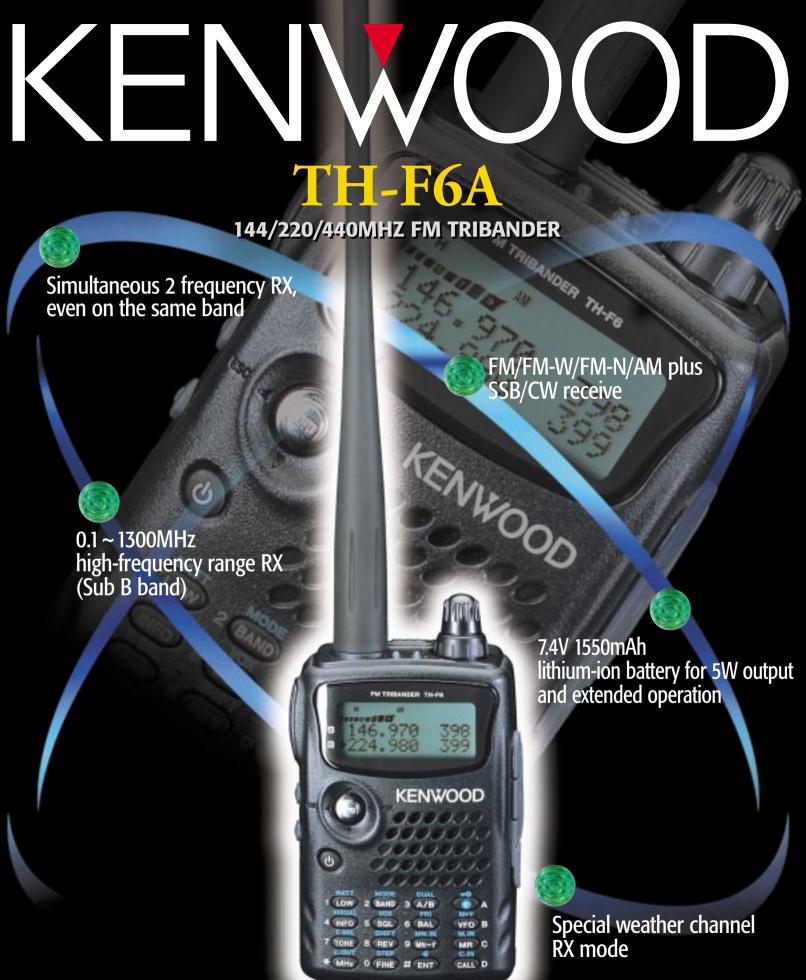
Except for sensitivity, specifications are guaranteed for Amateur bands only.

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



-*³/2/0.5W 5 / 0.5 / 0.05W

This has been printed on recycled paper CA244KP-E-4(00) 010810B Printed in Japan



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 con-

trast control and backlight
— displaying essential
frequency and memory
information, intuitive
menus, and multi-level
battery status. In monoband 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. Additionally, the convenient Memory Name function allows you to register a name (with up to eight characters) for each channel. A complete range of scan functions is also provided — including MHz, memory, call, tone, CTCSS, and DCS, plus a variety of Visual Scanning features. 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 receiver¹ (Sub B band). In addition to FM/FM-W/FM-N/AM and SSB/CW, the receiver section offers a special weather channel mode,² built-in ferrite bar antenna³ for receiving AM broadcasts, and Fine mode — with selectable increment (33/100/500/1000Hz⁴) — for extra-accurate SSB tuning. What's more, this handheld transceiver can receive 2 frequencies simultaneously, even on the same band.

- ¹ Not all frequencies are available.
- ² 10 channels. NOAA Weather Radio is a nationwide network of radio stations broadcasting weather, warnings, forecasts and hazard information 24 hours a day.
- ³ Switchable with external antenna. ⁴ 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. Remaining lithium-ion battery capacity can be easily checked on the LCD display as it is clearly shown in 4-step increments. 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: du	(hours)						
		144MHz	220MHz	440MHz			
Supplied Li-ion	HI	6.5	6	6			
oattery	LOW	12	11.5	11.5			
	EL	16	15.5	14.5			
Optional alkaline	HI	5	5	5			
patteries with BT-13	LOW	6	6	6			
pattery case	EL	8	8	8			

- 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. This unit offers more basic performance than a dedicated receiver. In an area of very strong signals, it may be advisable to switch the attenuator on for certain frequency range. Remember that the performance of antenna determines reception quality. You will enjoy better reception, therefore, if you devise an antenna that is tailored for your target frequency range.
- 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 may be possible to move an internal beat away from the target signal using the beat shift function.
- 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 2W.
- *Formula and more details on wideband reception cautions are available on our website:
 www.kenwoodcorp.com/i/products/info/amateur.html

Actual size

Simultaneous 2 frequency RX

High-frequency range RX

• FM/FM-W/FM-N/AM plus

Extended operation

SSB/CW receive

• 5W output