

144/220/4440MJHZ 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

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.

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. Versatility is first rate.

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

MIĽ-STD 810 C/D/E standards for resistance to vibration, shock, humidity and light rain.



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). 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.

RIBANDER TH-FO

KENWOOD

Operation time. uu	Ly Cycle	@ 0-0-40		(nours)
		144MHz	220MHz	440MHz
Supplied Li-ion	HI	6.5	6	6
battery	LOW	12	11.5	11.5
	EL	16	15.5	14.5
Optional alkaline	HI	5	5	5
batteries with BT-13	LOW	6	6	6
battery 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

Simultaneous 2 frequency RX

- High-frequency range RX
- FM/FM-W/FM-N/AM plus
 SSB/CW receive
- 5W output
- Extended operation

Actual size

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



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

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Order Administration/Distribution

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KHS-21 Headset without VOX & PTT



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



PG-4Y **Programming Interface** Cable (DB-9)



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





SC-51 Soft Case with Swivel Belt Clip

Specifications

GENERAL				
Frequency Range				
Main A-band (TX/RX)	14	14MHz: 144 - 148 / 137 -	174MHz	
	220MHz: 222 – 225 / 216 – 260MHz			
	440MHz: 430 – 450 / 410 – 470MHz			
Main A-band guaranteed range (TX or	r RX) 144MHz: 144-148MHz			
		220MHz: 222-225MH	Z	
		440MHz: 438-450MH	Z	
Sub B-band		RX: 0.1 ~ 1300MHz *1		
Modulation				
Main A-band		F3E (FM), F1D (FSK), F2D		
Sub B-band (reception)	E2D, E3F	F (FM), A1A (CW), A3A (AM),	J3F (SSB)	
Antenna Impedance	,	500	()	
Current Voltage Bange		0000		
Botton: torminal		V 7 EV (standard voltage)		
Dattery terminal	DC 3.3	v – 7.5v (standard voltage.	DC 7.4V)	
External battery terminal	. DC 12.01	v – 16.0v (standard voltage:	DC 13.8V)	
Power Consumption (approximate figures	;)			
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	
FL: DC 7 4V (battery terminal)	0.5A	0.5A	0.5A	
Becention	0.071	0.071	0.0/1	
Standby (single hand)	100m4	100m4	100m4	
	100mA	TOOTTA	100mA	
Average battery save (single band))	30mA	JUMA	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 (app	orox)			
With PB-42L Li-ion Battery Pack	2-5/16" x	3-7/16" x 1-3/16" (58 x 87	x 30mm)	
including projections	2-3/8" x 4-1/8 x	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	2-3/8" x 4-1/8 x	x 1-1/2" / 9.8oz (61 x 104 x	38mm / 280g)	
Operating Temperature Bange		4° ~ 140°F (-20 ~ +60° C)		
With supplied Li-ion Battery	-1	14° ~ 122°F (-10 ~ +50° C)	
BECEIVER			/	
Circuitry	Double	super beterodyne (except fr	or W-EM)	
onoundy	Bodbio	Single conversion (W-FM)		
Intermediate Frequency	Main A hand	Sub B band:	Sub B band: W-EM	
intoinioulato i ioquolioj	main roband	FM/AM/SSB		
1 st IE	50.85MHz	57 60MHz	10.8MHz	
2nd IE	450147	450kHz	10.011112	
2 II Constituitu	4JUKI IZ	450KHZ		
Sensitivity				
Main A band: 144/220/440MHz (FM)	ZUB SINAD)	Less than 0.18 µV		
Sub B band: AM (approximate)		$7.08 \mu\text{V}(0.3 - 0.52\text{MHz})$		
		$2.24 \mu\text{V}(0.52 - 1.8\text{MHz})$		
		$0.89 \mu V (1.8 - 50 MHz)$		
		$0.40 \mu V (118 - 250 MHz)$		
Out D hand, EM (an annuire sta)		0.40 µV (580 - 500IVIHZ)		
Sub B band: FM (approximate)		$0.40 \ \mu V (5 - 108 \ \text{MHz})$		
		$0.28 \mu V(118 - 144 \text{WHz})$		
		$0.22 \mu\text{V}(144 - 225\text{MHz})$		
		0.89 µV (225 - 2501VIHZ)		
		$0.40 \mu V (380 - 400 \text{MHz})$		
		$0.22 \mu V (400 - 450 MHz)$		
		0.40 µV (450 - 520MHz)		
		1.08 μV (520 - 700IVIHZ)		
		$1.20 \mu V (800 - 950 MHz)$)	
Sub R bands W/ FM (approvimate)		2.16 v/(50 = 100MUs))	
Sub B barlu: W-FIVI (approximate)		3.10 µV (30 - 100VITZ)		
		$2.02 \mu V (100 - 222 WHz)$		
Cub R band, CCR (approvimate)		3.98 μV (400 - 500 MHz)		
Sub B barid: SSB (approximate)		0.45 µV (3 – 30IVIHZ)		
		$0.40 \ \mu V (30 - 50 \ \text{MHz})$		
		$0.22 \mu V (144 - 140 N Hz)$		
0alah		$0.22 \mu v (430 - 430 v)/$		
Squeich		Less than 0.13 µv		
Selectivity				
-60B		More than 12KHz		
-400B		Less Inan Zoknz		
Low frequency output (at 8 onms, 10% d	istortion)	More than 300mW at 7.4V		
IRANSMITTER				
RF Output Power (approximate)	144MHz	220MHz	440MHz	
DC IN: HI / LOW / EL	5*²/2/0.5W	5*2/2/0.5W	-*3/ 2 / 0.5W	
LI-ion: HI / LOW / EL	5/0.5/0.05W	5 / 0.5 / 0.05W	5 / 0.5 / 0.05W	
BT-13: HI/IOW/FI	0.5 / 0.3 / n n.5W	0.5/0.3/0.5W	0.5 / 0.3 / 0.05W	
Modulation		Reactance modulation	/ 0.0 / 0.00 W	
Maximum Frequency Deviation		EM: +5kHz N EM: -2 EM	7	
Purious Padiation		FIVI. ±3KHZ, IN-FIVI: ±2.5KH	4	
Spurious Radiation		as then COdD (COdD ()	IO dB	
wore than Tw/Less than 0.1~1W/	Le	ss uian –ouas / –50as / –4	IUUD	
Eroquopov Stability	- E	(10 50° 0) .0 mm (0)		
+requency stability ±5 ppm (-10 ~ 50° C), ±8 ppm (-20 ~ 60° C)			0~00 ⁻ 0)	
Modulation Distortion		Less than 3% (300 ~ 3kHz)	
Microphone Impedance		2kΩ		

^{*1}Reception of the following frequency ranges is disabled in accordance with FCC regulations: 824 ~ 849MHz and 869 ~ 894MHz

*²Figure not approximate

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⁴⁻ Figure not approximate
*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.

