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



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



JQA-1205 ISO 9001
Communications Equipment Division
Kenwood Corporation

C € 0682①

KENWOOD CORPORATION

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Specifications

	TH-F7E		
GENERAL			
Frequency Range			
Main A-band (TX/RX)	144MHz: 144 -		
	430MHz: 430 -		
Main A-band guaranteed range	144MHz: 144 -		
(TX or RX)	430MHz: 430 -	- 440MHz	
Sub B-band	RX: 0.1 ~ 13	RX: 0.1 ~ 1300MHz	
Modulation			
Main A-band	F3E (FM), F1D (FSK), F2D	
Sub B-band (reception)	F2D, F3E (FM), A1A (CW),	A3A (AM), J3E (SSB)	
Antenna Impedance	50Ω		
Current Voltage Range			
Battery terminal	DC 5.5 V - 7.5V (standar	d voltage: DC 7.4V)	
External battery terminal	DC 12.0V - 16.0V (standa		
Power Consumption (approximate figures)	20 12:01 10:01 (starida	a volugo. Bo volov)	
Transmission (single band)	144MHz	430MHz	
HI: DC 13.8V (DC-IN terminal)	1.8A	2.0A	
HI: DC 7.4V (battery terminal)	2.0A	2.0A 2.0A	
	0.8A	0.8A	
LOW: DC 7.4V (battery terminal)			
EL: DC 7.4V (battery terminal)	0.5A	0.5A	
Reception	4004	400	
Standby (single band)	100mA	100mA	
Average battery save (single band))	30mA	30mA	
Simultaneous reception	.== :		
Standby (dual-band)	170mA	170mA	
Average battery save (dual-band)	35mA	35mA	
Dimensions (W x H x D, mm) / Net Weight (g)			
With PB-42L Li-ion Battery Pack	58 x 87 x		
including projections	61 x 104 x 35 / 250		
With BT-13 Battery Case	58 x 87 x 38		
including projections	61 x 104 x 38		
Operating Temperature Range	-20 ~ +60		
With supplied Li-ion Battery	-10 ~ +50)° C	
RECEIVER			
Circuitry	Double super heterodyne		
Internadiate Francisco	Single conversion		
	A band B band: FM/AM 9.85MHz 57.60MH		
		z 10.8MHz	
	450kHz 450kHz		
Sensitivity			
Main A band: 144/430MHz (FM 12dB SINA	.D) Less than 0. ⁻	18 μV	
Sub B band: AM (approximate)	$7.08 \mu\text{V}(0.3 - 0.00)$		
oub B barrar 7 mm (approximate)	2.24 μV (0.52 –		
	0.89 μV (1.8– 5		
	0.40 μV (118 –		
	0.40 μV (380 –		
Sub B band: FM (approximate)	$0.40 \mu V (5 - 10)$		
, ,	0.28 µV(118 –		
	0.22 μV (144 –		
	0.89 µV (225 –		
	0.40 μV (380 –		
	0.22 μV (400 –		
	0.40 μV (450 –		
	$7.08 \mu\text{V}(520 -$		
	1.26 μV (800 –		
Oct Discost W FM (considerate)	0.40 μV (950 =		
Sub B band: W-FM (approximate)	3.16 μV (50 – 1	OBIVIEZ)	
	2.82 μV (150 –		
Cub B hands CCB (approximate)	3.98 μV (400 –		
Sub B band: SSB (approximate)	0.45 μV (3 – 30 0.40 μV (30 – 5		
	0.22 μV (144 – 0.22 μV (430 –	450MHz)	
Squelch	Less than 0		
Selectivity	Lisso triali U	フ ァ ン \ \ .	
-6dB	More than	12kHz	
-40dB	Less than 2		
Low frequency output (at 8 ohms, 10% distort			
TRANSMITTER	ion) Nore than 300m	IV at 1.4V	
RF Output Power (Approximate)	144MHz	430MHz	
	5* / 2 / 0.5W	-* ² /2/0.5W	
LI-ion: HI / LOW / EL	5 / 0.5 / 0.05W	5 / 0.5 / 0.05W	
BT-13: AL/LOW/FL	0.5 \ 0.3 \ 0.05W	0.5 / 0.3 / 0.05W	
Modulation	Reactance mo		
Maximum Frequency Deviation	FM: ±5kHz, N-FN	Л: ±2.5kHz	
Spurious Radiation	/ /		
More than 1W/Less than 0.1~1W/	Less than -60dB / -	-50dB / -40dB	
Less than 0.1W			
Frequency Stability	±5 ppm (-10 ~ 50° C), ±8		
Modulation Distortion	Less than 3% (3	uu ~ 3kHz)	
Micropi one Impedance	2kΩ		
*1 Figure not approximate			
*2 RF ou'put power in DC-IN mode: Fac	tory proset is SIM but for a	afety reasons robon the	
THE DUNDER DOWER IN DC-IN MORE: FAC			
	urce in the high-namer 126		
receiver is using an external power so			
receiver is using an external power so automatically switch to 0.5W (approx	.) if temperature in the ma	in unit increases. The t	
receiver is using an external power so	.) if temperature in the ma cording to ambient tempera	in unit increases. The t ature; however, it should	

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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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Bolivia, 239-08020 Barcelona, Spain

144/430MHZ FM-DUAL BANDER 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 KENWOOD 1200/9600bps packet function (ext. TNC)

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

Priority on operating ease

Simple operation is an essential component of this FM dual bander, 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 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 mobile 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 night-time use.

434 memory channels, multiple scan functions

Other specifications are equally impressive: 434 memory channels, including 2 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-F7E counts twice over: it's both a 2-band transceiver (Main A band) and a wideband 0.1-1300MHz receiver (Sub B band). In addition to FM/FM-W/FM-N/AM and SSB/CW, the receiver section offers a special information memory channel RX mode (10 channels), built-in ferrite bar antenna¹ for receiving AM broadcasts, and Fine mode — with selectable increment (33/100/500/1000Hz²) — 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 Switchable with external antenna. 2 Increment figures are approximate.



Internal ferrite her autenna

Tough construction

The smaller a transceiver, the farther it is likely to travel. Fortunately, the TH-F7E 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-F7E is incredibly small — just 58 x 88 x 29 mm (WxHxD). How could so much be packed into such a super-compact design? Impossible! But it's true. This little wonder is an FM dual bander (144/430MHz) with dual-channel RX capability, 16-key pad, multi-scroll key, and no fewer than 434 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 posket the TH F7E.

lithium-ion battery. Small enough to slip into a pocket, the TH-F7E 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 cutput 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-F7E is operating from a DC (13.8V) supply.

Operation time: duty cycle @ 6-6-48			(hours)
		144MHz	430MHz
Supplied Li-ion	HI	6.5	6
battery	LOW	12	11.5
	EL	16	14.5
Optional alkaline	HI	5	5
batteries with BT-13	LOW	6	6
battery case	EL	8	8

■ Compatible with external 1200/9600bps TNC

■ Selectable squelch configuration

■ Memory shift

■ Key lock

■ Built-in CTCSS (42 subtone frequencies), DCS (104 codes), 1750Hz tone burst

■ Large frequency display for single-band use

■ Time-out timer & APO (OFF/30/60 min)

■ Automatic simplex checker

■ 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