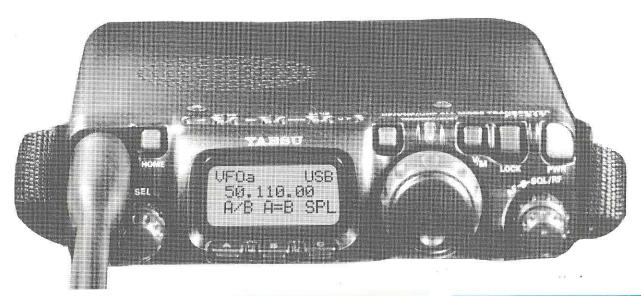
YAESU

ALL MODE PORTABLE TRANSCEIVER

HF/50/144/430 MHz Multimode Transceiver

Its compact design delivers up to 5 Watts RF power and versatile power source selection provides QRP DX adventures both at home and away!

Despite its incredibly small size (5.3" x 1.5" x 6.5" WHD) and light weight (under 2 pounds), the FT-817 delivers big performance. It's "State of the art" next generation all band power amplifier utilizes push-pull 2SK2975 power MOS FETs providing up to 5 Watts of RF power (1.5 W AM Carrier) from 160 M to 70 cm when connected to an external 13.8V DC supply. Ready to operate from 8 "AA" alkaline dry cells, an external 13.8 V DC source or the optional FNB-72 Ni-Cd Battery Pack the FT-817 automatically sets the power level to 2.5 W to conserve power when running from the FNB-72 Ni-Cad battery pack, but you can easily set it to one of the 4 preset power levels of 5/2.5/1/0.5 W.



GET BASE STATION PERFORMANCE FROM YOUR BACKPACK OR CAMP TABLE!

BIG RADIO" FEATURES FROM ULTRA-COMPACT PACKAGE!

- IF Shift—For reduction of adjacent-frequency interference.
- IF Noise Blanker-For reduction of ignition and other impulse-type noise.
- IPO (Intercept Point Optimization) Bypasses RX Preamp on HF/50 MHz for improved performance
- during strong-signal conditions.

 ATT(Front End Attenuator)—For more pleasant reception of very strong signals.

HIGH-PERFORMANCE COLLINS MECHANICAL FILTER OPTIONS!

An optional filter slot is provided in the FT-817, allowing the owner to install one of two available tenpole Collins® Mechanical Filters. For CW operation, choose the YF-122C (500 Hz bandwidth), or for very

natural-sounding SSB select the YF-122S (2.3 kHz bandwidth).



EASY TUNING USING THE MAIN DIAL AND "SELECT" KNOB!

The power of microprocessor control brings you mode-selectable tuning steps as fine as 10 Hz for the Main Dial (SSB/CW), and quick-tuning steps of 1/2.5/5 kHz using the SELECT knob. Under Menu control you can disable the Main dial knob for channalised operation on AM and FM modes using the **SELECT** knob. Pressing the microphone [FST] button doubles the channel step for the SELECT knob and multiplies the Main dial knob tuning rate by a factor of 10. Pressing the SELECT knob before rotating it means that you can fly across the band in 1 MHz steps.

MULTI-FUNCTION CONTROL KEYS FOR EASY FEATURE ACCESS!

For quick and efficient access to the many highperformance features of the FT-817, the SELECT knob teams up with the [A] [B] [C] keys to provide a "miniature front panel" for ease of operation. There also is a convenient "Menu" mode, providing customization of a number of "set and forget" operating functions.



[A] key	[B] key	[C] key
A/B VFO A/B switching.	A=B Set VFO-B to VFO-A freq.	SPL Activate"Split"operation.
MW Memory Write.	MC Clear "Memory Skip" status.	TAG Alpha/Numeric Tag On/Off
STO Store freq. to Quick Memory.	RCL Recall freq. from Quick Memory.	PMS Band-Limit Tuning/Scanning
RPT Repeater Shift On/Off.	REV Repeater Shift Reverse.	TON CTCSS/DCS Settings
SCN Scanning Start/Stop.	PRI Priority Channel operation.	DW Dual Watch operation.
SSM Spectrum Scope On/Off.	SCH Smart Search™ On/Off.	ART ARTS™On/Off.
IPO RX Preamp Bypass On/Off.	ATT RX Attenuator On/Off	NAR Optional Filter In/Out.
NB Noise Blanker On/Off.	AGC Select AGC Recovery Time.	
PWR Select TX Power Level.	MTR Select TX Meter display mode.	
VOX VOX mode On/Off.	BK CW Semi-Break-In On/Off.	KYR Electronic Keyer On/Off
CHG Ni-Cd Charging On/Off.	VLT Display Battery Voltage.	DSP Select Normal/ Large Freq. Display.
TCH Tone Search On/Off.	DCH DCS Code Search On/Off.	

WIDE RECEIVER FREQUENCY COVERAGE!

Enjoy MW, Shortwave, FM and airband communications in addition to the amateur radio bands, thanks to the wide frequency coverage of the FT-817 which includes reception from 100 kHz ~ 56 MHz, 76 ~ 108 MHz (wide FM mode only), 108 ~ 154 MHz and 420 ~ 470 MHz.

TWO ANTENNA CONNECTORS FOR EASE OF INSTALLATION AND OPERATION!

The front panel includes a convenient BNC connector for attachment of a whip or VHF/UHF rubber flex antenna (supplied). The rear panel includes a type M" ("SO-239") connector. As shipped from the factory, the BNC jack is active on 50/144/430 MHz, while the "M" connector is active on HF.



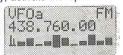


The Menu system allows you to define which connector will be selected for HF, 50 MHz, 144 MHz, and 430 MHz, so if your VHF Yagi's feedline uses a PL-259 connector, just use the Menu to select the "Rear" connector on 144 MHz!

VERSATILE EASY-TO-SEE LIQUID CRYSTAL DISPLAY (LCD)

A wealth of information is available on the front panel: When you have to be away from the radio for a few minutes, but would like a visual indication of activity while you're away, activate the Spectrum

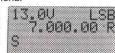
Scope Monitor. The Spectrum Scope Monitor allows you to watch activity ±5 channels from the current operating frequency.



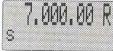


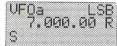
The LCD illumination color may be set to either Blue or Amber via the Menu.

Monitor the battery condition using the Battery Voltage Meter display selected via the menu



 For ease of viewing while outdoors, you can double the size of the frequency display





VERSATILE OPERATING FEATURES FOR NO-COMPROMISE PERFORMANCE!

 Split-frequency operation using VFO-A and VFO-B for DX pileups. SSB TX and RX adjustment of carrier insertion point, for customization of audio response. ●RF GAIN control. ■ AGC FAST/SLOW/AUTO selection. ■ VOX T/R control. ■ Modulation and SWR indication on LCD. ● ±9.99 kHz Clarifier (R.I.T.).

CW PORTABLE OPERATION HAS NEVER BEEN BETTER!

●CW "Semi Break-in," with T⇒R recovery delay programmable from 10 ms ~ 2500 ms. At 10 ms setting, performance emulates QSK operation.

■CW Reverse: provides BFO injection from LSBside, instead of default USB-side.

CW Pitch Control: adjusts TX offset and (identical) sidetone between 300 Hz and 1000 Hz in 50 Hz steps; this allows precise spotting on DX stations. Sidetone level is adjustable.

 Built-in Electronic Keyer, with speed adjustable between 4 WPM and 60 WPM, and Weight (Dot: Dash Ratio) adjustable between 1:2.5 and 1:4.5.

For emergency use, the Menu allows you to set up the Microphone's [UP] and [DWN] keys for generation of "Dots" and "Dashes" on CW!



LEADING-EDGE FEATURES THAT GET YOUR MESSAGE ACROSS!

UNMATCHED VERSATILITY IN MEMORY OPERATIONS!

Despite its compact size, the FT-817 sports an impressive array of Memory features. You get 200 regular" memories which store frequency and mode information, and each memory may have an 8-character Alpha-Numeric "Tag" (label) appended for quick channel identification. What's more you get four HOME Channels (one each for HF/50/144/430), a pair of Band-Limit "PMS" memories (M-PL/M-PU), a one-touch "Quick Memory" channel for a favorite operating frequency, and (for U.S. customers) access to the "Alaska Emergency Channel" (5167.5 kHz), for a grand Memory Channel total of 208 channels! Ten Memory Groups are available (holding up to 20 channels each), allowing you to organize the 200 Memory Channels efficiently.

RENOWNED YAESU SCANNING VERSATILITY!

 VFO Scan: Allows you to scan the band looking for activity. If a signal is heard, the scanner will pause and can resume scanning depending upon parameters set by the user.

 Memory Scan: Scan all the memories, or just those in a Memory Group. You can also define certain channels (such as beacons) to be "skipped" during scanning, if you like.

Programmable Memory Scan (PMS): A special pair of memories may be used to set up band scanning limits (so as to limit 144 MHz scanning to the "FM" portion of the band, for example).

 Dual Watch: Lets you operate on one VFO, while checking the other VFO every five seconds, looking for activity

 Priority Channel: lets you operate on a Memory Channel while checking Memory Channel 001 every five seconds.

 Smart Search: Provides automatic loading of up to 50 AM/FM frequencies, based on an activity search of the current band. Perfect when visiting a new city on a business trip!

CTCSS/DCS ESSENTIAL OPERATING FEATURES

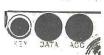
 50 CTCSS Tones are available for use in either an Encode-only or Encode-Decode mode, along with 104 DCS Encode/Decode control codes. CTCSS and DCS information may be stored independently on each Memory Channel. If you don't know the other stations tone or digital code, use the handy Tone Search or Code Search features to track down the tone or code automatically!

 For Search-and-Rescue operations, the Auto-Range Transponder System (ARTS™) utilizes the FM DCS code system in a polling mode, allowing the base and portable station to know when an 'out of range"condition exists. The portable station then knows to move to a better location in order to re-establish communications.

PACKET AND SSB-BASED DIGITAL MODES: READY FOR ACTION:

●For 1200 or 9600 bps VHF/UHF Packet work, a convenient industry-standard mini-DIN connector is provided, making interfacing quick and efficient. Easy connections are also provided for SSB-based Digital modes, and the Menu includes custom setups for RTTY, PSK31 (USB and LSB both supported),

and two user-defined modes (for SSTV, etc.). The optional 500 Hz CW filter may be utilized during narrow-band Digital operation.



SPECIFICATIONS

General

Frequency Range: Receive: 100 kHz-30 MHz

50 MHz-54 MHz

76 MHz-108 MHz (WFM only) 87.5 MHz-108 MHz (EU) 108 MHz-154 MHz (USA)

144 MHz-148 (146) MHz (Other markets) 430 (420) MHz-450 (440) MHz

Transmit: 160 - 6 Meters

2 Meters

70 Centimeters (Amateur bands only) 5.1675 MHz Alaska Emergency Frequency

(USA only)

Emission Modes : A1 (CW), A3 (AM), A3J (LSB/USB), F3 (FM),

F1 (9600 bps packet), F2 (1200 bps packet)

Synthesizer Steps (Min.)

10 Hz (CW/SSB), 100 Hz (AM/FM)

Antenna Impedance

50 Ohms, Unbalanced

Operating Temp. Range

(Front: Type BNC, Rear: Type M) -10 °C to +60 °C (+14 °F to +140 °F)

Frequency Stability

±4 ppm from 1 min. to 60 min after power on. . @25 °C: 1 ppm/hour

Normal: 13.8 VDC±15 %, Negative Ground Operating: 8.0-16.0 V, Negative Ground FBA-28 (w/8 "AA" Alkaline Cells): 12.0 V

FNB-72 (Ni-Cd Battery Pack): 9.6 V (Option) Current Consumption: Squelched: 250 mA (Approx.) Receive: 450 mA

Transmit: 2.0 A Case Size: 5.31" x 1.5" x 6.50" (135 (W) x 38 (H) x 165 (D) mm) Weight (Approx.): 1.17 kg (w/Alkaline battery, antenna, w/o Microphone)

Transmitter

Supply Voltage:

RF Power Output: 5 W (SSB/CW/FM), 1.5 W (AM Carrier) @13.8 V

Modulation Types:

SSB: Balanced Modulator AM: Early Stage (Low Level) Variable Reactance

FM Maximum Deviation : ±5 kHz (FM-N: ±2.5 kHz) Spurious Radiation

-50 dB (1.8-29.7 MHz) -60 dB (50/144/430 MHz)

Carrier Suppression >40 dB

Opp. Sideband Supp. >50 dB

SSB Frequency Response: 400 Hz-2600 Hz (-6 dB)

Microphone Impedance 200-10k Ohms (Nominal: 600 Ohms)

Receiver

Circuit Type

: Double-Conversion Superheterodyne Intermediate Frequencies : 1st : 68.33 MHz (SSB/CW/AM/FM);

10.7 MHz (WFM)

2nd: 455 kHz

Sensitivity:

	SSB/CW	AM	FM
100 kHz-500 kHz	-	161	-
500 kHz-1.8 MHz		32 µV	887
1.8 MHz-28 MHz	0.25 μV	2 μV	-
28 MHz-30 MHz	0.25 μV	2 μV	0.5 μV
50 MHz-54 MHz	0.2 μV	2 μV	0.32 μ\
144/430 MHz	0.25 μV		0.2 µV

(IPO, ATT off, SSB/CW/AM = 10 dB S/N, FM = 12 dB SINAD) Squelch Sensitivity

	SSB/CW/AM	FM		
1.8 MHz-28 MHz	2.5 μV	-		
28 MHz-30 MHz	2.5 μV	0.32 μV		
50 MHz-54 MHz	1 μV	0.2 μV		
144/430 MHz	0.5 μV	0.16 μV		

(IPO, ATT off)

HF/50 MHz: 70 dB Image Rejection: 144/430 MHz: 60 dB

IF Rejection 60 dB

Selectivity (-6/-60 dB); SSB/CW: 2.2 kHz/4.5 kHz

AM: 6 kHz/20 kHz FM: 15 kHz/30 kHz FM-N: 9 kHz/25 kHz

SSB (option): 2.3 kHz/4.7 kHz (-66 dB) CW (option): 500 Hz/2.0 kHz

AF Output AF Output Impedance 1.0 W (8 Ohms, 10% THD or less)

4-16 Ohms

AND MUCH, MUCH MORE. . .

ARD MIDCH, MIDCH MORE...

FM Wide/Narrow Deviation selection.

ARS (Automatic Repeater Shift).

APO (Automatic Power-Off) TOT (TX Time-Out Timer).

Computer Control interface (4800/9600/38400 bps).

Panel Key "Beep" frequency and level control.

Front Panel Key Lock mode (locks Dial only, frequency-control keys only, or all keys except PWR and LOCK).

Independently-selectable channel. Independently-selectable channel steps for AM and FM.

ACCESSORIES & OPTIONS

ļ	FNB-72
	Ni-Cd Battery Pack(9.6 V, 1000 mAh)
	NC-72B/C/U
	Ni-Cd Battery Charger
	YF-122S
	Collins CW Filter (500 Hz/2 kHz; -6 dB/-60 dB)
	тсхо-9
	Collins SSB Filter (2.3 kHz/4.7 kHz: -6 dB/-66 dB)
	YF-122C
-	TCXO Unit (±0.5 ppm)
	MH-36EBJ
	DTMF Microphone
	CT-62
1	CAT Interface Cable
	CT-39A
-	Packet Cable

Supplied Accessories MH-31ABJ Hand Microphone FBA-28 Battery Case (holds 8 "AA" size Alkaline cells [not supplied])
YHA-63 Whip Antenna for (50/144/430 MHz)

E-DC-6 DC Cable Shoulder Strap

SEICOM AG **FUNKTECHNIK AARAUERSTRASSE** 5600 LENZBURG TEL. 062 / 891 55 66 FAX 062 / 891 55 67



HOTLINE S.A. - Via Magazzini Generali, 8 - 6828 BALERNA / Switzerland Tel. +41 - 91 - 683 20 91 / 695 17 50 Fax +41 - 91 - 683 34 44 / 683 14 48 http://www.hotline-int.ch e-mail: info@hotline-int.ch

'Wichtig: Aenderungen, Abweichungen und Irrtümer vorbehalten"

- "Important: changements, différences et erreurs réservés"