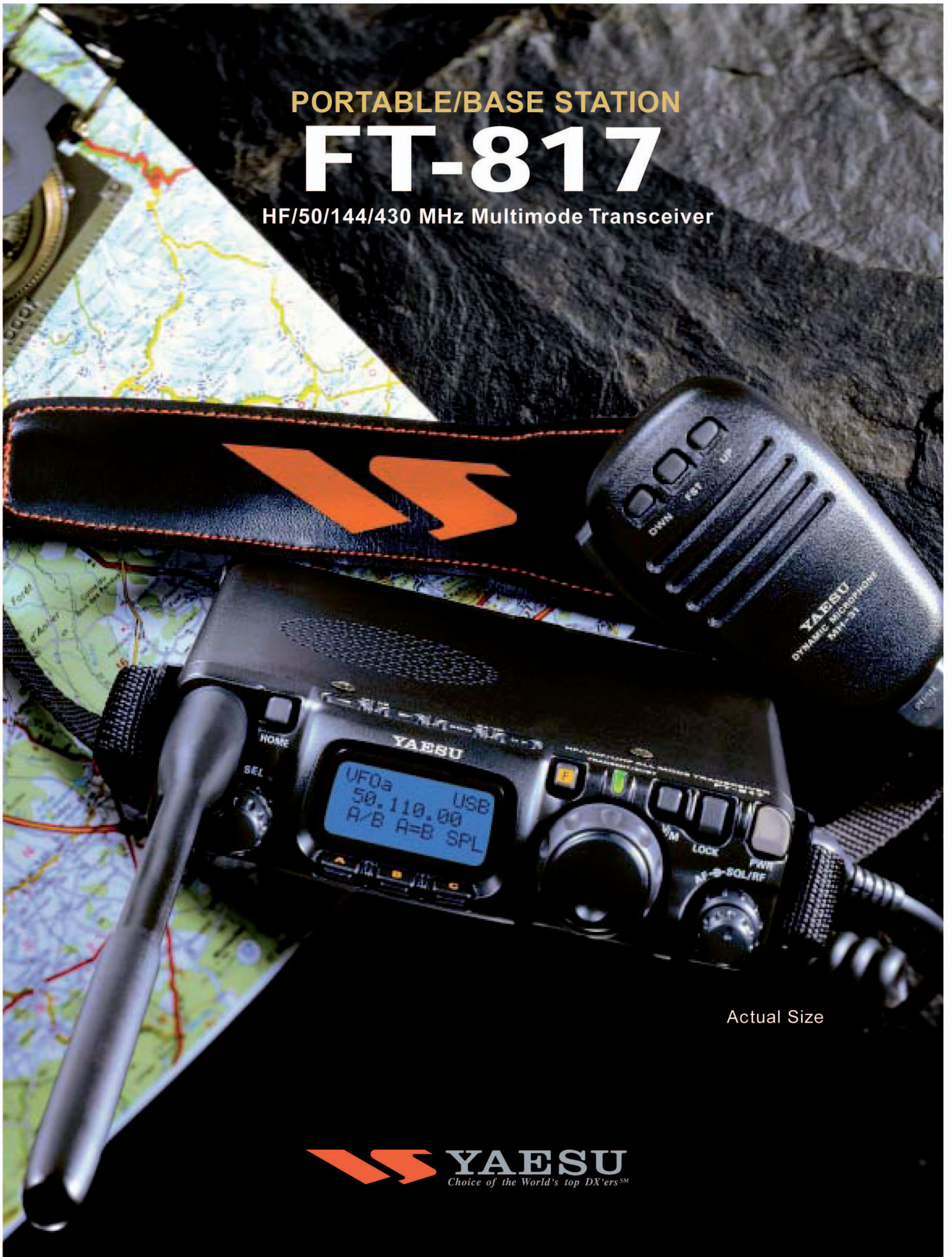


PORTABLE/BASE STATION

# FT-817

HF/50/144/430 MHz Multimode Transceiver



Actual Size



**YAESU**  
Choice of the World's top DX'ers<sup>SM</sup>

# 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 (Front: Type BNC, Rear: Type M)

Operating Temp. Range : -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

Supply Voltage: 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

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)  
 FM: 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	-	-	-
500 kHz-1.8 MHz	-	32 μV	-
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 μV
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)

Image Rejection : HF/50 MHz: 70 dB

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

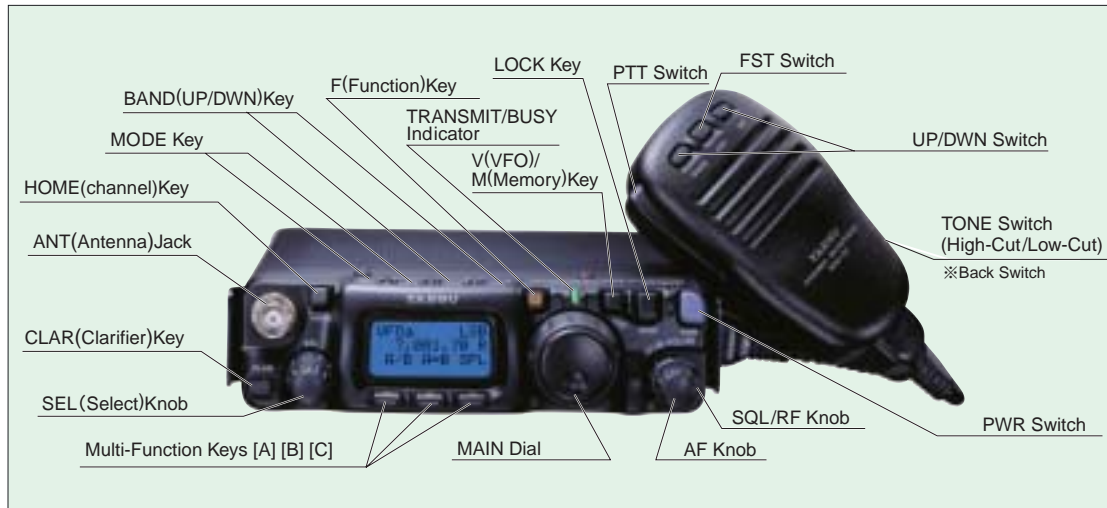
SSB (option): 2.3 kHz/4.7 kHz (-66 dB)

CW (option): 500 Hz/2.0 kHz

AF Output

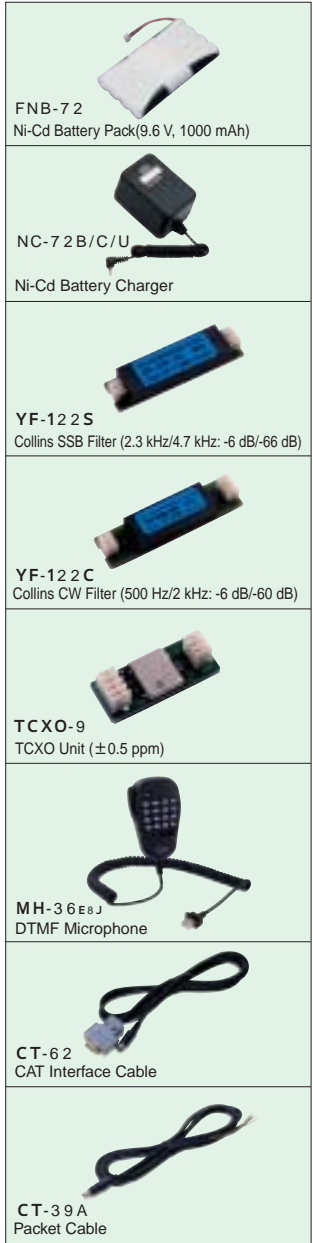
: 1.0 W (8 Ohms, 10% THD or less)

AF Output Impedance : 4-16 Ohms



About this brochure: we have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time in equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized Yaesu Dealer for complete details.

# ACCESSORIES & OPTIONS



### Supplied Accessories

- MH-31A8J 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

**YAESU** VERTEX STANDARD CO., LTD.  
 4-8-8 Nakameguro, Meguro-ku, Tokyo 153-8644, Japan

**VERTEX STANDARD** Phone 562/404-2700; Fax 562/404-1210  
 Email: amateursales@vxstdusa.com

For the latest Yaesu news, visit us on the Internet:  
<http://www.vxstdusa.com>

**US Headquarters**  
 17210 Edwards Road, Cerritos, CA 90703, U.S.A.  
**International Division**  
 8350 N.W. 52nd Terrace, Suite 201, Miami, FL 33166, U.S.A.

**YAESU EUROPE B.V.**  
 P.O. Box 75525 1118 ZN, Schiphol The Netherlands

**YAESU UK LTD.** Email: sales@yaesu.co.uk  
 Unit 12, Sun Valley Business Park, Winnall Close  
 Winchester, Hampshire, SO23 0LB, U.K.

**VERTEX STANDARD HK LTD.**  
 Unit 5, 20/F., Seaview Centre, 139-141 Hoi Bun Road,  
 Kwun Tong, Kowloon, Hong Kong