

Now you can own a fully self-contained, high-power HF/VHF/UHF multimode transceiver that can be operated without an external power supply! With the exciting new FT-897, you can operate fully portable at the 20-Watt power level, using the optional FNB-78 13.2V/4500 mAh Ni-MH Battery Pack (two may be installed simultaneously). Use an external 13.8 Volt power supply for 100 Watts of power on HF/50 MHz, 50 Watts on 144 MHz, and 20 Watts on 430 MHz. Or install the optional FP-30 Internal Power Supply in place of the internal batteries. . .however you configure the FT-897, there will be no limit to the DX action you'll enjoy!

### **FIELD STATION** FT-897+FNB-78 (optional)

For an afternoon at the park, a day at the beach, or an emergency exercise, power your FT-897 using the optional FNB-78 Ni-MH Battery Pack, and you're on the air-completely portable!

### Battery-powered Field Operation

Battery-powered Field Operation

The bottom side of the FT-897 contains a "power source tray" which can accommodate up to two of the optional 13.2 Volt, 4500 mAh FNB-78 Ni-MH Battery Packs, for completely portable operation without any external power source. Maximum power output is 20 Watts (70 cm: 10 W) during battery operation, and with two FNB-78s you may expect up to eight hours of operating time (TX 5%, RX 5%, standby 90%). What's more, you can charge one of the FNB-78 Battery Packs while operating the FT-897 off the other pack—ideal for situations where solar or other power sources are available. The CD-24 Charge Adapter provides the necessary voltage for charging, and it may be used in conjunction with an external 13.8 Volt source, or the PA-26 AC Adapter may be used to power the CD-24.





### **MOBILE STATION** FT-897+ATAS-120(optional)

Mobile operation, using the FT-897 as the cornerstone, is pure joy! The combination of the FT-897 and the ATAS-120 Active-Tuning Antenna Syprovides automated operation from HF through the UHF spectrum!

### DC 13.8 V Mobile Operation



### **BASE STATION** FT-897+FP-30+FC-30(optional)

The FT-897's outstanding fundamental performance invites expansion into a full-featured base station. The optional FP-30 Internal Power Supply provides operation from AC sources, and the clamp-on FC-30 Automatic Antenna Tuner option expands the impedance range of the transceiver. Round out your station with the optional MD-200Asx Deluxe Desk Microphone and the optional VL-1000 Quadra System Linear Amplifier for world-class performance at home!

### Top-quality Base Station Limited-space Antenna Ideas







# HF/VHF/UHF ALL MODE TRANSCEIVER .295.00 AF SOL

FT-897 PORTABLE BASE STATION

Yaesu's patented ATAS-120 Active-Tuning Antenna System provides a compact yet efficient, automatically-adjusting antenna for mobile, portable, or apartment-balcony usel Utilizing DC voltages fed from the FT-897 the ATAS-120 automatically adjusts its length longer or shorter, with the FT-897 feeding a tiny amount of power for SWR detection by its internal directional coupler. When the best impedance match is found, tuning automatically stops, and operation can begin.

Active-Tuning Antenna System:

The ATAS Series! (optional)

Specified for operation on the 7/14/21/28 MHz Amateur bands, the ATAS-120 contracts fully for use on Chotomac System the 50/14/430 MHz bands, providing a low SWR for local FM work (where vertical polarization is predo.
And if you're an apartment
use the optional ATBK-100 /
Base Kit, which provides an e



Compact, All-In-One Transportable HF/VHF/UHF Communications Station

Measuring Just 7.9" x 3.2" x 9.1" (without knobs), the FT-897 is unmatched in performance versus size. With the optional FC-30 Automatic Antenna Tuner installed, the convenient carrying handle of the FT-897 lets you easily transport your HF/NHF/UHF station to a





Innovative FC-30 (or

Automatic Antenna Tuner
Adding less than 2" to the total width of the
FT-897 assembly, the optional FC-30 is a highspeed, relay-controlled Automatic Antenna Tuner
utilizing a combination of sixteen capacitors and
nine low-loss coils to reduce SWR as presented
to the FT-897 feedpoint. Impedances of 17 to 150
Ohms may be tuned by the FC-30 on HF (25 to
100 Ohms on 50 MHz), and the lightning-fast
tunion aperuse that you work miss out on the DX





### natched Ease of Access to Feati Radio Tuning Dial and Ergo in Ultra-Compact Transcei

se of operation of the FT-897 is en large-diameter (1.8") Main Tuning



### Easy Receiver Offset Tuning (Clarifier)

The convenient "Clarifier" (R.I.T.) knob, located at the bottom right-hand corner of the front panel, allows offset of the receiver frequency from the allows offset of the receiver frequency from the transmitter frequency, to follow a drifting station or to tune around a DX pile-up. But if you want a larger knob for offset tuning, you may use the Menu system to assign the Clariffer function either to the Selector knob, or the Main Tuning Dial.

### Easy-to-Use "Scrolling Front Panel" Keys

The compactness of the FT-897 is made possible by the easy-to-use "multi-function keys," which allow

### Whether at home, in the car, or on a DX-pedition, the FT-897 brings you home-station performance in a compact, transportable package. Features like Digital Signal Processing, Collins® Mechanical filter options, and easy Digital mode interfacing give you leading-edge performance, wherever you create your Hamshack!

adjustment of a number of transceiver operating functions during operation. Pressing the [F] key allows selection of the operating function row, using the Selector knob, and you may then press the [A], [B], or [C] switch, as needed, to change the setting. What's more, a number of these keys provide instant "hot key" switching to a related Menu item, for "set

and forget" configuration adjustment.



### Rugged, High-Output Power Am with Efficient Heat Sink

Achieving 100 Watts of power output from such a compact package is a difficult mechanical and electrical engineering task. On HF, push-pull 2SK5125 MOSFETS driven by push-pull 2SK2975s provide the 100-Watt power capability, while on VHF maximum efficiency during battery operation is yielded by 2SC3102 bipolar PA transistors. The purposed larginum discret chassis provides a solid rugged aluminum die-cast che foundation for the heat sink the with a total of almost 40 cub surface area available. With it quiet, thermostatically-controlled

quiet, thermostatically-controlle twin cooling fans, the FT-89 will stand up to the rigors of DX-pedition or home contest





HF 50 MHz 144 MHz 430 MHz FT-897 100(20W) 100(20W

### Take the QRP Challenge

Ideal for low-power operation under battery power, the FT-897 is easily adjusted down to the 5-Watt limit for 'QRP' operation, and you'll enjoy the thrill of having those rare DX stations come back to your "flea power" portable station.

### Nice Ears!! Legendary YAESU Receiver Design

When you've traveled a great distance to find that ultimate quiet operating location, you want a great receiver so as to take advantage of it! Yaseu's top receiver design team crafted the front end of the FT-897, accounting for the dramatic differences between low bands like 160 meters and the 430 MHz microwave band. Wide dynamic range and SPECIFICATIONS

with careful gain distribution from the RF through the audio stages. Flexibility in strong-signal operation is also provided by the RF Gain control, input attenuator, input preamplifier bypass capability and Slow/Fast/Off AGC sole



### **High-Performance PLL Design**

The quiet, fast-acting local oscillator system of the FT-897 borrows extensively from the renowned FT-847, using a Direct Digital Synthesizer (DDS) to achieve fast lock times and silky-smooth tuning in 10 Hz steps. The excellent carrier-to-noise ratio helps preserve spurious-free dynamic range in a crowded band, and the smooth tuning leaves you with the feeling you're using an analog VFO.

### Digital and Analog Interference/Noise Reduction

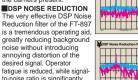
The FT-897 includes a wide array of analog and DSP filters to help you dig out those weak DX signals on a crowded band! One-touch activation of the DSP filters, plus a convenient "DSP" LED on the front panel, enhance the ease of using the DSP.

### DSP BANDPASS FILTER

BOSP BANDPASS FILTER
Separate DSP Bandpass Filters for Voice and CW
augment the analog filters, yielding a dramatic
improvement in signal-to-noise ratio and interference
reduction. For Voice modes, both the low- and
high-side cutoff frequencies are independently
adjustable, and for CW you may choose bandwidths
of 240 Hz, 120 Hz, or a razor-sharp 60 Hz.

of 240 Hz, 120 Hz, or a razor-sharp 6∪ Hz.

■DSP AUTO-NOTCH FILTER
To reduce interference caused
by annoying carriers within
the receiver passband, the
DSP Auto-Notch provides a
significant reduction in the To reduce interference caused by annoying carriers within the receiver passband, the DSP Auto-Notch provides a significant reduction in the interference level. If multiple carriers are present, the DSP will detect and notch all the carriers present.



## annoying distortion of the desired signal. Operator fatigue is reduced, while signal-to-noise ratio is significantly enhanced. FM SSB/CW/AN

## Sensitivity: 100 kHz-1.8 MHz 1.8 MHz-28 MHz 28 MHz-30 MHz 50 MHz-54 MHz

■IF SHIFT
To roll off interference using the analog IF filters, the IF Shift feature varies the frequency of the IF passband across the filter, removing interference from either the high-frequency or low-frequency side without varying the pitch of the incoming signal.

without varying the pitch of the incoming signal. **IIF NOISE BLANKER**Another noise reduction circuit, in addition to the DSP Noise Reduction, is the IF Noise Blanker. Noise pulses are detected early in the receiver, then amplified and used to drive a carefully-timed gate in the receiver IF that blanks out impulsetype noise from automotive ionition systems.

## type noise from automotive ignition system Upgrade with Collins® Mecha Filters for SSB and CW!

To enha SSB, the 2.3 kHz, 10-pole finder fr-122S (oblinial) provides a very flat passband response, for natural sounding transmit audio, along with excellent skirt selectivity. And for CW, the 500 Hz, 7-pole YF-122C





### Outstanding Features for the CW Aficionado!

utstanding Features for the CW Afficionado!

A wide array of features are tailored to the CW enthusiast operating from home or on an expedition!

Included are a CW Tuning indicator, CW Pitch control, Electronic Keyer with three memories and Weight Control, and selection of Full QSK or 'Semi-break-in' operation. For DX-pedition use, a unique "Beacon' mode allows you to send a repetitive message on, for example, six meters, to help others spot propagation to your location. And if you're looking to upgrade your license class, the CW Trainer feature

tters and/or numbers a the speaker, so you n practice CW reception can practice CW reception when the bands are dead.



### Advanced Convenience Features for VHF/UHF Operation!

Actual Size

Both CTCSS and DCS Encoder/Decoders are built inl For easy access to repeaters, a 50-tone CTCSS system works along with a 104-code Digital Code Squelch (DCS) in the FT-897. For applications requiring split CTCSS/DCS access, a convenient "Split Tone" feature is also provided!

### Versatile Memory System!

The FT-897 provides up to 200 "Main" memory channels, each of which may be named with an Alpha-Numeric label of up to leight characters. These 200 Memories may be separated in as many as 10 Memory Groups of 20 Memories each.

S SKIP TAG

For added convenience, you also get a "Quick Memory" and a "Home Channel" on each band, plus ten pairs of band-limit memories, to let you restrict operation to a sub-band, if you like.

### And Much, Much More. . .

Large, Multi-Color Display: You can even prograt the display to show different colors on each band, mode, Memory Group, or even to track signal strength by color!



TX Meter Selection:
Modulation Level, ALC,
Output, or SWR. ACCESSORIES & OPTIONS



## Easy Data Mode Interfacing: Configure f 1200/9600 bps Packet, RTTY, or PSK31 in minutes. Transmit Data Level is adjustable via the Menu.



### Focus the available power to characteristics.

Two Antenna



les ±0.5 ppm stability at cations requiring very high

Oscillator:
The TCXO-9 provides ±0.5 ppm stability at 77°F/25°C for applications requiring very h frequency accuracy.

Persatile Scanning Features: VFO Scan.

Memory Scan, Band-Limited Scanning (PMS), and Dual Watch.

■mart Search™: Automatic "Soft" Memory

Spectrum Scope:
Watch activity ±9 or ±63
channels from your
current frequency.

¥VOX: With separate adjustme
and CW receiver recovery time.

and CW receiver recovery time.

Auto Power Off (APO), Time-Out timer (TOT) and Automatic Repeater Shift

CAT System: Computer programming capability for DX/contest logging software, etc.



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yr Range: Receive: 0.1-56 MHz, 76-108 MHz, 118-164 MHz, 420-470 MHz Transmit: 160 - 6 Meters, 2 Meters, 70 Centimeters (70 Amateur bands only) 

Frequency Stability: -4 gpm from 1 min. to 80 min atter power on. 425° C 1 gpm/hour 425° C, after warmup (with optional TXX0-9)
Supply Voltage: Pha? (Ni-MH 8 attery Pack): 13.2 V (Option)
Current Consumption: Squeliched: 600 mA (Approx.)
Receive: 1 A
Transmit: 22 A
Transmit: 22 A
Case Size (W x H x I): 78.7 x 31.5 x 103.1 (200 x 80 x 262 mm)
Weight (Approx.): 8.6 lb (3.9 kg)
(Wo Ni-MH battery, antenna, Microphone)

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SSB/CW/FM

160-6 Meter: 100 W

2 Meter: 50 W

70 Centimeter: on Types: 

Intermediate Frequencies