





X POWER OUTPUT (SSB,CW,FM)

HF / 6 m 2 m 70 cm

5W - 100W 5W - 50W 2W - 20W The quiet, fast-acting local oscillator system of the F1-857 borrows extensively from the F1-847 and F1-897, using a Direct Digital Synthesizer (DDS) to achieve fast lock times and silky-smooth tuning in steps as fine as 10 ft. The excellent carrier-to-noise ratio helps preserv HIGH-PERFORMANCE RECEIVER DESIGN Building on the acclaimed performance of the FT-1000D, Mark-VFT-100MP, and FT-897, Yaesu's engineers have crafted the FT-857 is froit end for a very low noise floor, along with wide dynamic range. Utilizing an up-conversion architecture for HF with a first [F66.33MHz, the FT-857 features a double-conversion translate.

BIG-RADIO TUNING DIAL AND OUTST \*BIG-RADIO TUNING DIAL AND OUTSTAND ERRONOMICS: Ease of operation of the F1-85 is enhanced by the large diameter 1.7" (Ø43 mm) Main Tuning Dial (10 Hz tesps minimum), similari nisize to the tuning knob of many base station rigs. What's more, the SELECT knob allows "channelized tuning in minimum steps of 14Hz on SBACW, or 5 kHz on FM, for quick and easy furping around the service of the service

the band, All important keys are strategically placed around the front panel, forquickaccess.

•EASY-TO-USE "SCROLLING FRONT PANEL" KEYS:

Inecompactnessortner 1-83/Ismadepossible by the easy-to-use "multi-function" keys, which allow adjustment of a number of transceiver operating functions during operation. Pressing the[FUNC] key allows selection of the operating function row, using the Selector knob, and you may then



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Init features a	Multi
igh-techD/Achipforsignaturucessing.	-

\*DSP BANDPASS FILTER: Separate DSP Bandpass Filters for Voice and CW augment the analog

the FT-857 features a double-conversion superheterodyne system (single conversion on WFM), with the 2nd F at 455 kHz. Extensive bandpass filtering in the front end, along with careful device selection and gain distribution, yield a receiver system ready for the strong-signal challenges of today's crowded bands! On VHF and UHF the very low-noise MOS FET preamplifier is followed by an active DBM mixer, yielding the low noise from the present the pr

ure required for weak-WIDE FREQUENCY COVERAGE

Providing transmitter coverage of the HF, 50 MHz, 144 MHz, and 430 MHz Amateur bands, MHZ, 144 MHZ, and 430 MHZ Aniates Dansa, the FT-857 also includes receive coverage on 100kHzto56MHz,76to108MHz,118-164MHz, and 420-470 MHz. Enjoy the excitement of public safety monitoring, along with weather broadcasts, AM and FM broadcasts, aviation

communications, as well as the action on the

For superior interference rejection and transmitter "talk power," the FT-857's DSP

filter for enhanced interference rejection. For Voice modes, you get 16 High-Pass Filter cutoff frequency selections, and 32 Low-Pass Filter selections, for at total of \$12 combinations. And for CW, you may choose bandwidths of \$240 Hz, 120 Hz, orarazor-sharpfoltz.

\*DSF AUTO-NOTCH FILTER: To reduce interference second by approximation of the produced in the programment of the produced in the pr

- BSP AUTO-NOTCH FILTER: To reduce interference caused by annoying carriers within the audio passband, the DSP Auto-Notch particles as significant reduction in the process of the BSP will detect and notch all the carriers present.

- BSP NOISE REDUCTION: The very effective Noise Reduction little of the BSP will detect and notch all the carriers present.

- BSP NOISE REDUCTION: The very effective Noise Reduction little of the FT-857 utilizes as many as 16 noise-reduction algorithms, for use in a wide variety of noise environments, without introducing appreciable distortion on the desired signal doperator latigue's reduced, and signal-to-noise readously enhanced.

- BSP MICKOPPIONE COULLIZER: To match the FT-857 ST. X audio Tesponse to the waveform produced by your voice and the microphone in the Ball page 250 personnel documents.

agogyped by your voice and the microphone in Health (1987) and the microphone in Suppressed, allowing all a yaladale powering to suppressed, allowing all a yaladale powering to concentrated links your worker's paglifferame, roust wreap (1980) by packed, p. (2000) by packed, p. (2000) by packed, p. (2000) by System's Spay Int). 10 Hz (CWISSS). 100 Hz (AMFAWAYA) Arteria Impatines; Ohros, Unidanced Questing line Barer, 14 f 16 n 140° F -10° C to -60° C) Frequency Subsidy 3.5 ppm from 1 min. 100° of om alter power on. 9.05 ppm from 1 min. 100° of om 1 min. 100°

#25 C: 1 ppm/hour ±0.5 ppm/1 hour #25 C, (with optional TCXO-9) CSupply Voltage: Normal: 13.8 VDC ±15 %, Negative Ground Current Consumption: Squelched: 600 mA (Approx.) Receive: 1 A

Transmit: 22 A
Case Size (W xH x 0): 6.1" x 2.0" x 9.2" (155 x 52 x 233 mm)
Weight (Approx.): 4.6 lb. (2.1 kg)

spurious-free dynamic range in a crowded band, and the smooth tuning leaves you with UNMATCHED EASE OF ACCESS TO FEATURES

The compactness of the FT-857 is made possible



	A key	B key	C key
MFa	(VFO A/B Selection)	A=B (Equalize VFOs A/B)	SPL (Split Operation)
MFb	(Write to Memory)	SKIP (Skip during Scan)	TAG (Memory Name Tag)
MFc	STO (Quick Memory Store)	RCL (Quick Memory Recall)	PROC (Speech Processor On/Off
MFd	RPT (Repeater On/Off)	REV (RPT Shift Reverse)	VOX (VOX On/Off)
MFe*	(CTCSS/DCS On/Off)	-	TDCH (TonelCode Selection)
MFe	ENC (Split Tone Encode)	DEC (Split Tone Decode)	TDCH (Tone/Code Search)
MFf	ARTS (ARTS™ On/Off)	SRCH (Smart Search™ On/Off)	PMS (Band-Limit Scan)
MFg	SCN (Scan Start)	PRI (Priority Ch. Watch)	(Dual Watch)
MFh	SCOP (Spectrum Scope)	WID (Scope Bandwidth)	STEP (Scope Steps)
MFi	MTR (Meter Mode)	PWR (Meter Mode)	DISP (Display Size)
MFj	SPOT (CW Spot)	BK (Break-in On/Off)	KYR (CW Keyer On/Off)
MFk	TUNE (ATU/ATAS On/Off)	DOWN (ATAS Down)	(ATAS Up)
MFI	NB (Noise Blanker On/Off)	(AGC On/Off)	(AGC Mode)
MFm	(RX Preamp On/Off)	(RX Attenuator On/Off)	NAR (Namow Dev.)
MFn	(RX Normal Fitr.)	N/A (Optional Fitr. 1)	N/A (Optional Fitr. 2)
MFo	PLY1 (Keyer Mem. 1)	PLY2 (Keyer Mem. 2)	PLY3 (Keyer Mem. 3)
MFp	DNR (DSP Noise Fitr.)	(DSP Notch Fitz.)	DBF (DSP BPF)
	MONI*	QSPL*	ATC*

SPECIFICATIONS

ers: 20 W 5
SSB: Balanced Modulator,
AM: Early Stage (Low Level),
FM: Variable Reactance
tion: ±5 kHz (FM-N: ±2.5 kHz)
-50 dB (1.8-29.7 kHz)
-60 dB (50/144/430 MHz)
c >40 dB
sion: >50 dB

ADVANCED FEATURES FOR ACTIVE DXers

\*\*Shift Use HE SHIFT feature to vary the center frequency of the IF passband, so as to eliminate interference above or below the currentoperatingfrequency.

\*\*F Noise Blanker: Optimized for use in the mobile environment, the FT-857 includes a highly-effective IF Noise Blanker specifically designed.

emective in Noise Blanker specifically designer for suppression of ignition and other pulse-type noises. The Noise Blanker's threshold is adjustableviatheMenu.

adjustableviatheMenu.

\*!utercapt Point Optimization (IPO):Forreceptiono
thelower HF bands, where low Noise Figures
not required, the IPO feature causes the
preamplifier to be bypassed, allowing direct
signal input to the first mixer. An input
attenuator is also provided, for very noisy
conditions.

stable AGC: The Automatic Gain Control (AGC) circuitry of the FT-857's receiver may be adjusted, by the operator, for Slow or Fast recovery times. A convenient "Auto" feature

recovery times. A convenient "Auto" feature programs "Fast" AGC for CM, and "Slow" for voice modes. And the AGC may also be turned off, Idesired, allowingmanualgain controllfrom thefrontpanel.

"Cariller RLTJ: For split-frequency pile-ups or to follow drifting signals, the Clarifler control provides up to ±39 f4kt of adjustment of the receiver's frequency, without changing the transmit frequency. For wider-split pileups. the "Split" mode allows you to use VFO-A and VFO-Besparately. On.

\*IF Gain Courto! For noise reduction and/or variation of the AGC system threshold, the

of R Gain Control: For noise reduction and/or variation of the AGC system threshold, the Menu allows the front panel's "Squelch" controltooperateasan "RFGain' control.

\*VOX:For hands-free Voice operation, the VOX

CW OPERATING FLEXIBILITY
The FT-857 is without peer in its array of mostasked-forfeatures forthec Wexpert 7
- Built-In Electronic Keyer: The FT-857.5 built-in
Electronic Keyer: The FT-857.5 built-in
Electronic Keyer: The FT-857.5 built-in
Electronic Keyer: The FT-857.5 built-in
Electronic Keyer: Includes a weight control, as
well as Menu capability to reverse the "Dot"
and "Dash" contacts onyour connector.
- CW Message Memory with Beacon Mode: For
repetitive "CO TES1" and contest exchange
messages, the FT-857 includes a three-message
memory capability. The Elecación mode may be
used to send a repetitive message out
continuously for up to four hours, ideal for 6meteruseduringDx-peditions.
- CW Pitch/Stodeno Control: The CW Pitch Control
allows the transmitted signal to be offset
4005500/600700000014from "zerobea" with the
receive frequency. This adjustment
smultaneously varies the center frequency of the
RX passband (including the DSP BPH), as well as
the CW Tatlera A popular feature of the FT-857 is

ner : A popular feature of the FT-857 is the CW Trainer, which will send five-character EASY DATA-MODE SETUP

For operation on a wide variety of digital modes, including 1200/9600 bps FM packet, RTTY, SSTV, or PSK31, the rear-panel 6-pin mini-DIM connector provides easy to Data I/O lines, plus PTT and Ground. For PSK-31 and other AFSK

SSB/CW



truel

\*Versalite Tone Control Selections: Both CTCSS and
DCS Encoder/Decoders are built in! For easy
access to repeaters, a 50-tone CTCSS system
works along with a 104-code Digital Code
Squelch (DCS) in the FT-857. For applications
requiring split CTCSS/DCS access, a convenient
Split Tone feature is also provided, along with
the ability to encode (only) CTCSS or DCS, if
desired.

\*Automatic Repeater Shift To the 144 Miles and

country to encode (enry) CTCSS or DES, if desired.

desired.

\*Automatic Repeater Shift: On the 144 MHz and 430 MHz bands, the FT-857 will automatically activate the repeater shift appropriate for the partofthebandinwhichyouareoperating.

\*Smal Search\* When visiting a new city, use the Smart Search system to scan the FM/AM Mode for activity. When busy channels are found, they will be automatically leaded into a year class.

\*Spectum Scope: If you have 14.

\*Spectrum Scope: If you have to be away from your radio for a few minutes, turn on the Spectrum Scope to keep watch on band activity. The Spectrum Scopewill creates bar-graph displayofactivity on channels above and below your current operating frequency.

\*ARTS \*\*Mach Angor Transponder System; Du

•ARTS™(Auto-Range Transponder System): During Search-and-Rescue operations, the ARTS™







FM

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2003.0220NS(U/E) B9200411 Printed in Japan