



HIGH-PIR-DEMOND PILIDESISH
The quest fast-acting local oscillator system of
the FL85's borrows outersteely from the FL84's
and FL89', using a Direct Digital Synthesizer
(DDS) to achieve fast lock times and silkysmooth tuning in steps as fine as 10 Hz. The
excellent carrier-to-noise ratio helps preserve
spurious-free dynamic range in a crowded
band, and the smooth tuning beeve you with

IMMA CHED FASS SE. ALB STOP FAITRES
Describers or market to the FL85's sightly report in TX POWER OUTPUT (SSB,CW,FM)

HF / 6 m 2 m 70 cm

5W ~ 100W 5W ~ 50W 2W ~ 20W HIGH-PERFORMAN. IS BELLIFIED DISTIBLE BUILDING BY TOWN SW – 20W W – 20

Despiteits compact size, theFT-857 is without peer in ease of access to the features and functions you need the most!

themost!

• BG-RADIO TUNING DIAL AND OUTSTANDING

• BG-RADIO TUNING DIAL AND OUTSTANDING

• BCKONOMICS: tasse of operation of the FT-857

issenhanced by the large diameter 1.7 " CM3

mm) Main Tuning Dial (10 Hz steps minimum),

similar in size to fire furning inch of many base

station rigs. What's

more, the SELECT knob

allows. "Insentition"

and easy tuning around the band. All important

the band. All important tessys are strategically placed around the front panel forquick-access.
PASKY-TO-USE **CROBLING FRONT PANEL* KEYS:
The compactness of the FLB **ST is made possible to be the asy of which function keys, which allow adjustment of a number of transceiver and the process of the proce



communications communications of circuit. The FT-857's DSP Unit features a 24-bithigh-tech D/Achipforsigna process.

fluor required for weak.

WIDE FROUNDLY REQUIRED

Providing transmitter coverage of the HF, 50
MHz, 144 WHz, and 430 MHz Amateur bands, the FT-857 also includes receive coverage on

me FT-857 also includes receive coverage on 100kHz0 538 his includes receive coverage on 100kHz0 558M±2, foo 109M±2, 1154 f54M±2, and 420-410 kHz. Enjoy the excitement of public selfey mortioning, along with weather broadcasts, AM and FM to roadcasts, avided to communications as well as the exciton on the

ENHANCED TRANSCEIVER PERFORMANCE THROUGH DIGITAL S UNAL PROCESSING

For superior interference rejection and transmitter talk power, the F1-857's DSP circuitry enhances both sides of the communications circuit. The F1-857's

DSP Unit features a 24-bithgh-feat/Ontiploragraprocessing-• DSP BANDPASS FILTER: Separate DSP Bandpass Filters for Voice and CW augment the analog selections, for dubin Filters the cutoff frequency selections, and 32 tow-Pass Filter selections, for dubin Filters than Andror ON For a company the company of the cutoff AUGMENT of the cutoff passage of the cutoff Filters to reduce hat fenence augment of the cutoff provides a significant reduction in finetreference level. If multiple carriers are present, the DSP will detect and not chall the carriers greesent.

present, the DSP will use to carrier spresent.

•DSP NOISE REDUCTION : The very effective

Noise
Reduction filter of the FT-957 utilizes as many
as 16 noise-reduction algorithms, for use in a
wide variety of noise environments, withou
introducting appreciable distortion on th
desiredsignal. Operator failuguis OSP MICROPHONE EQUALIZER : To match the FT

Signia-10-rolose atloi essignia carriagement de di LES PMICROPIOSE COUALIER : 10 march the FT-BES PMICROPIOSE COUALIER : 10 march the FT-BES PMICROPIOSE COUALIER : 10 march the FT-BES PMICROPIOSE COURSE (10 march the PMICROPIOSE CARRIAGO IN COURSE COURSE (10 march the PMICROPIOSE CARRIAGO IN DEVENTA TO AND THE COURSE (10 march the PMICROPIOSE CARRIAGO IN DEVENTA TO AND THE COURSE (10 march the PMICROPIOSE CARRIAGO IN SEPREMIE COURSE (10 march the PMICROPIOSE CARRIAGO IN SEPREMIE CAR

Multi Function Keys			
	A key	Bkey	C key
MFa	A / B (VF O A/B Selection)	A=B (Equalize VF Os A/B)	SPL (Split Operation)
MFb	(Write to Memory)	(Skip during Scan)	(Memory Name Tag)
MFc		RCL (Quick Memory Recall)	PROC Speeci Processor OxOff
MFd	RPT (Repeater On/Off)	(RPT Shift Reverse)	(vox ovom)
MFe ^a	(CTCS STCS OWON)	-	TDCH (Tone/Code Selection
MFe	ENC (Split Tone Encode)	DEC (Split Tane Decode)	TBCH (Tone/Code Search)
MFf	ARTS (ARTS** DIVOM)	SRCH (Smart Search# On/Off)	PMS (Band-Limit Scan)
MFg	SCN (Scan Start)	PRI (Priority Ch. Watch)	(Dual Watch)
MFh	SCOP (Spectrum Scope)	(Scope Bandwidth)	STEP (Scope Steps)
MFi	MTR (Meter Mode)	PWR (Meter Mode)	BISP (Display Size)
MFj	SPOT (CW Spot)	(Break-in On/Off)	KYR (CW Keyer On/Off)
MFk	(ATUATAS DIVDM)	(ATAS Down)	(ATAS Up)
MFI	NB (Noise Blanker On/Off)	(AGC ONOM)	(ASC Mode)
MFm	(RX Preamp Or/Off)	(RK Attenuator On/Off)	NAR (Narrow Dec)
MFn	(RX Normal Fitr.)	(Optional Fits. 1)	(Optional Fitz 2)
MFo	PLY1 (Keyer Mem. 1)	PLY2 (Keyer Mem. 2)	PLY3 (Keyer Mem. 3)
MFp	(DSP Noise Filtr.)	(DSP Notch Fitz)	DBF (DSP BPF)
MFq	MONI* (SQL Disable) functions is user progr	OSPL* (Guisk Spill)	(1750 Hz Tone)

SPECIFICATIONS

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

Double-Conversion Superheterodyne (SSB/CW/AM/FM) Superheterodyne (WFM) c 19: 8833 MBz (SSC/WBA/FM): 103 NHz (WFM) 2nd: 455 kHz

FM Maximum Deviation

Carrier Suppression:

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noises. The Noise blanker's threshold is adjustable/valithefylenu.

•Intercept Point Dyfimization (PD). For reception on the lower HE bands, where low Noise Figure is not required, the IPO feature causes the RF preamptifier to be bypassed, allowing direct signal input to the first mixer. An input articulator is also provided, for very noisy

signal input to the first mixer. An input inclination is allowable AGC: The Automatic Gain Control (AGC)drauble AGC: The Automatic Gain Control (AGC)drauble AGC: The Automatic Gain Control (AGC)drauble (AGC)draubl

of if desired, allowing manual gains control from their onlighted.

*Clarifier (R.11): for split-frequency pile-ups or to follow drifting signals, the Clarifier control provides up to 59 WAR to disjustment of the care of the control provides up to 59 WAR to disjustment of the care of the control of the co

•VOX :For hands-free Voice operation, the VOX

The FL62Ts without per anoth, the VOX.

The FL62Ts without per in its array of most-asked-foreatures of the CW per asked-foreature of the CW per asked-foreature of the CW per asked-foreature of the CW per asked foreature of the CW per asked for a consistency of the CW per asked for a repetitive more most agreemently capability. The "Descon" mode may be used to send a repetitive message, the FL62Ts of the CW per asked for the CW per asked

The Control of the Co

PSS Data Sheving and the for operation and wide variety digital modes, including 1200'9600 bosFM packet, RTTV, SSTV, or PSk31, the rear-panel 6-pin mini-DIN connector provides easy to Data I/O lines, plus. PTT and Ground, for PSk-31 and Other AFSK modes, the injection sideband (USB/LSB) is selectable, along with BFO and Display Shift and

| The color | The 90 da 400 Hz-2600 Hz (–6 dB) 200-10k Ohms (Nominal: 600 Ohms)

184/430 NHz.
Image Rejection H750 MHz 10 dB, 144/430 MHz; ou an BF Rejection of all 8 Hz Rejection of all 8 Hz Rejection of the Rejection of R

The FT-871s a VI/VIII operator's dream come true!

Wet-stille Tone Control Selections Eight Cross-range Control Selections Eight Cross-range Control Selections Eight Cross-range Control Cross-range Control

he ability to encode (only) CTUSS or DUS, in desired, the ability to encode (only) CTUSS or DUS, in desired.

**Automatic Repealer Shift: On the 144 MHz and 430 MHz bands, the FT-857 will automatically activate the repeater shift appropriate for the part of the band of of

the Smart Search system to scan the FM/AM Mode for activity. When busy channels are toud, they will be automatically loaded into a special Smart Search* memory bank, for easy recall.

Spectrum Scope: If you have to be away from systems of the standard of the systems of the standard of the systems of the standard of the systems of the

ACTIVE-TUNING ANTENN

Zentra Blussechie

Zestra gabenet ATAS-120 Active-Luning
Antenno System provides a compact, yet
efficient, automaticallyadjusting antenna for
mobile, portables or
bolle, portables or
thiking plc voltages fed
from the FT-87, the
ATAS-120 automatically
adjustistisengithes gen
over to SWR defection
by its internal directional
coupler. When the best
found, funingautomatically
stops, and operation can
tagin.

Specified for operation on the 7/14/21/28 MHz Amateurbands, the ATAS-120 contracts fully for use

on the 50/144/30 MHz bands, providing a low SWR for local FM work (where vertical polarization is predominant). And if you'rean apartment dweller, use the opional ATEX-100 Antenna Base Kit, which provides an outstanding counterpoise to ensure low-angle containment of the through the sure of the counterpoise of the sure low-angle containment of the sure of the sure

The FT-857 provides up to 200 Main "memory charmels, each of which may be named with an Alpha-Numeric label of up to egith characters. These 200 Memories may be spen sted into as many as 10 Memories may be spen sted into as each for added convenience, you also get a search for added convenience, you also get a card, plust five pairs of obsert dimitimentales, to let you restrict operation to a sub-band, if you

UPGRADE WITH COLLINS: MECHANICAL FILTERS FOR SSB AND UW (Option)

To enhance performance on both receive and transmit, high-performance Collins Wechanical filter options are available foil now Wechanical filter options are available to roth SSB and CW For SSB, the 2.3kHz, 19-pole YF-122S option growides a very flat pass band response, for natural-sounding transmit audio, along with al-sounding transmit audio, along wir ent skirt selectivity. And for CW, the 500 oleYF-122C and 300 Hz, 7-poleYF-122CN



EXT SPKR Jack nna Jack 144/430 MHz Antenna Jack (Buropean Version: Type N)

Remote Control

OCHT UNA

The large 2.1 %0.69 (53.4x17.2 mm) multi-colo display rovideseasy-to-readinicitation ofmany operating functions. The color may be chosen from among 32 different color selections, and may beyrog rammed to show different color son each band, mode, Memory Group, or even to track signal strength and power output by

AND MUCH, MUCH MORE...

Battery Voltage Meter •TX Meter Selectio

fodulation Level, ALC, Power Output, or SWR.

Two Antenna Connectors Separate jacks for Hr50 MHz and 144/430 MHz, affixed to the

rearpanel.

•Large, Easy-to-See TX/RX Status LED •Optional
High-Stability Reference Oscillator The

gfi-Stability Reference Oscillator The XO-9 provides ±0.5 pom stability at 77 F/25°C applications requiring very ligh frequency curiacy • Versatile Scanning Features VFO an, Memory Scan, Band-Limited Scanning

(PMS), Priority Scan and Dual Watch Auto Power-off (APO) and Time-Out Timer (TOT) •CAT SystemComputerProgrammingcapability

Collins®CW Filter (300 Hz/fl kHz: —8 dB/—60 dB) ATAS-120 ATBK-100



ACCESSORIES & OPTIONS

ible. We reserve the right, however, to make changes at any time in equipment, optional accessories, be available in some countries. Some information may have been updated since the time of printing:

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