YAESU
Radio for Professionals

The new Evolving Super-DX + ASP

VHF 85W FM Mobile Transceiver

FT-3185R ASP

(FT-3185E ASP : Europe)

- **SDX+ASP** — Super-DX RF Front-End Design and Audio Digital Signal Processor increases the receiver sensitivity and improves reception of weak signals
- **85W Fan-less** — Massive Heatsink with no cooling fan ensures reliable solid 85W RF output power
- **PMG** — Often used frequencies (up to 5ch) can be registered and then easily monitored in the Primary Memory Group function

New Features

Massive Heatsink ensures 85W RF Power

The Massive Heatsink with no cooling fan ensures reliable solid 85W RF power (selectable 85W / 50W / 20W / 5W).

CFL (Customized Function List)

Up to 9 frequently used functions from the 44 Menus can be registered and be easily called.

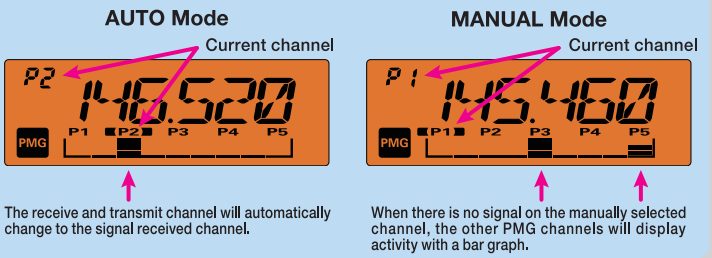
Super-DX and ASP: Audio Digital Signal Processor

The new Super-DX function increases the receiver sensitivity, and improves weak signal reception. The new ASP is also activated when the S-DX key is pressed. The new Super-DX with the ASP ensures reliable audio quality for weak signals and expands the communication range.

PMG (Primary Memory Group)

Up to 5 frequencies may be stored to the PMG (Primary Memory Group). The activity of the PMG channels is displayed in real time with a bar graph in the PMG screen.
The AUTO or MANUAL mode is switchable by pressing and holding the Main VFO knob during PMG operation. In the AUTO mode, the receive and transmit channel will automatically change to the received signal channel.
In the MANUAL mode, transmit and receive stay on the manually selected channel. When there is no signal on the manually selected channel, the bar graph will display when other PMG channels has an activity.

PMG Screen



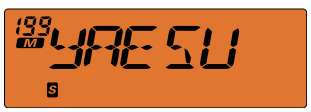
User-Programmable Microphone Keys

Four Programmable keys (P1-P4) on the microphone allow one-touch access to your favorite command functions. The microphone function commands replicate the corresponding front panel functions.

Supplied DTMF Microphone SSM-85D

Memory channels with Alpha-numeric labels

The 200 memories, one "HOME" channel and 10 sets of PMS memories, with 6-character alpha-numeric lables, for easy identification.



Advanced Features

- Keyboard entry of operating frequencies from the Supplied DTMF Microphone SSM-85D
- Versatile Scan features: Preferential Memory Scan, Programmable memory scan, VFO scan, Priority Channel Scan (Dual Watch), and Weather Alert Scan (USA version only).
- CTCSS (50 tones) and DCS (104 codes) Encode/Decode, with split Tone and DCS Encode-only capability
- Expanded receiver coverage: 136-174MHz
- Separate Transmit offset Frequency Memories
- Memory-Only Mode
- RF squelch
- DTMF Auto-dialer (9 channel) Operation
- Automatic Repeater Shift
- Tone/DCS Search Scanning
- DCS Code Inversion

Convenience Features

• EPCS (Enhanced Paging & Code Squelch) Operation • Display Illumination Adjustment
• Automatic Power-Off (APO) • Time-Out Timer (TOT) • Busy Channel Lock-Out (BCLO)
• CTCSS/DCS Bell Operation • Weather Broadcast Reception (USA version only) • Keylock Feature

Options

DTMF Microphone
SSM-85D

Simple Microphone
MH-42C6J

External Speaker (Max. Input: 10W)
MLS-100

AC Power Supply (23A)
FP-1023[*1]

AC Power Supply (25A)
FP-1030A[*2]

*1: US version only *2: US and Asian versions only

Supplied Accessories: DTMF Microphone SSM-85D, Mounting Bracket, Standing Foot, DC Power Cable

Specifications

General

Frequency Range:	RX:136 - 174MHz TX: 144 - 148MHz or 144 - 146MHz
Channel Steps:	5, 6.25, 10, 12.5, 15, 20, 25, 50, 100kHz
Frequency Stability:	±5ppm –4°F to +140°F (–20°C to +60°C)
Emission Type:	F2D, F3E
Supply Voltage:	13.8V DC±15%, Negative Ground
Current Consumption:	0.7A (Receive), 0.5A (Squelched) 15A (TX, 85W), 11A (TX, 50W), 7A (TX, 20W), 3A (TX, 5W)
Operating temperature:	– 4°F to +140°F (–20°C to +60°C)
Case Size (W×H×D):	6.3" × 2.0" × 7.3" (160 × 50 × 185mm) w/o Knobs
Weight (Approx):	4.2lbs (1.9kg)

Transmitter

RF Power Output:	85W / 50W / 20W / 5W
Modulation Type:	Variable Reactance Modulation
Spurious Emission:	Better than -60dB Better than -61.1dB (European Version, 85W)

Receiver

Circuit Type:	Double-Conversion Superheterodyne
Intermediate Frequencies:	1st: 21.7MHz, 2nd: 450kHz
Sensitivity :	Better than 0.16μV (136 - 140 MHz) Better than 0.14μV (140 - 150 MHz) Better than 0.19μV (150 - 174 MHz)
Selectivity:	12kHz / 30kHz (–6dB / – 60dB)
AF Output:	3W (8Ω, THD10%, 13.8V)

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.

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