

**YAESU**

Radio for Professionals

# The new Evolving Super-DX + ASP

VHF 65W FM Mobile Transceiver

## FT-3165RASP

(FT-3165EASP : Europe)

● **SDX+ASP**

Super-DX RF Front-End Design and Audio Digital Signal Processor increases the receiver sensitivity and improves reception of weak signals

● **65W FACC**

65W RF Output Power. The Funnel Air-Convection Cooling System ensures reliable stable output power for continuous operation

● **CLEARVOICE**

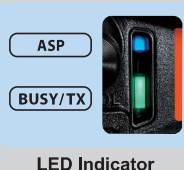
Newly Designed Clear-Voice 5W Front Mounted Loud Speaker Enhances Voice Intelligibility



## New Features

### 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.



### New 5 W Front Loud Speaker

Redesigned front speaker provides 5 watts of loud audio, the FT-3165R/E speaker has been tuned for improved sound quality.

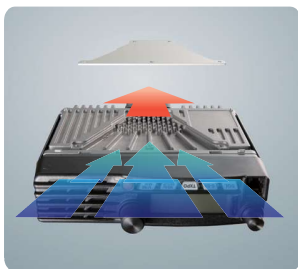
The optional Yaesu MLS-100 external speaker is available for support in noisy field operation.



5 Watts (35 x 58mm) Front Speaker

### 65 Watts Stable High-Power Output with FACC

The compact 2-meter Mobile Transceiver is built with the Yaesu legendary mechanical toughness. The FACC: Funnel Air-Convection Conductor (Wind Tunnel) draws cool air through the wide-open front air intake and directs it to the final amplifier area and out the rear cooling fan. This efficient cooling system ensures stable high output power for continuous long-distance communications.



FACC: Funnel Air-Convection Conductor (Wind Tunnel)

### 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.

#### Available Key functions:

SQL OFF, HOME, WX CH, CD SRCH, SCAN, T CALL, TX POWER, REV, DW, Menu Items #1 to #44



Supplied DTMF Microphone SSM-85D

### 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
- 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 (10 channel) Operation
- Automatic Repeater Shift
- Tone/DCS Search Scanning

### Memory channels with Alpha-numeric labels

The 199 memories, one "HOME" channel for favorite frequencies and 10 sets of PMS memories, with 8-character alpha-numeric labels, for easy recognition.



### Convenience Features

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

### Options

DTMF Microphone <b>SSM-85D</b>	Simple Microphone <b>MH-42C6J</b>	External Speaker (Max. Input: 10W) <b>MLS-100</b>	AC Power Supply (23A) <b>FP-1023*1</b>	AC Power Supply (25A) <b>FP-1030A*2</b>

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

Supplied Accessories: DTMF Microphone SSM-85D, USB Cable, Mounting Bracket, 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:  $\pm 10$ ppm  $-4^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$  ( $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )  
Emission Type: F2D, F3E  
Supply Voltage: 13.8V DC $\pm 15\%$ , Negative Ground  
Current Consumption: 0.7A (Receive), 0.5A (Squelched)  
11A (TX, 65W), 8A (TX, 30W), 5A (TX, 5W)  
Operating temperature:  $-4^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$  ( $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )  
Case Size (WxHxD): 6.1" x 1.7" x 6.1" (154 x 43 x 155mm) w/o Knob  
Weight (Approx): 2.86lbs (1.3kg)

#### Transmitter

RF Power Output: 65W / 30W / 5W  
Modulation Type: Variable Reactance Modulation  
Spurious Emission: Better than  $-60$ dB  
Better than  $-61$ .1dB (European Version, 65W)

#### Receiver

Circuit Type: Double-Conversion Superheterodyne  
Intermediate Frequencies: 1st: 47.25MHz, 2nd: 450kHz  
Sensitivity: 0.2 $\mu\text{V}$  for 12dB SINAD (Amateur Band, FM Wide)  
0.22 $\mu\text{V}$  for 12dB SINAD (Amateur Band, FM Narrow)  
12kHz / 28kHz ( $-6$ dB /  $-60$ dB)  
Selectivity: 5W (4 $\Omega$ , THD10%, 13.8V)  
AF Output:

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.

# YAESU

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YAESU MUSEN CO., LTD. <http://www.yaesu.com/jp>

Omori Bellport Building D-3F  
6-26-3 Minami Oi, Shinagawa-ku, Tokyo, 140-0013, Japan

YAESU USA <http://www.yaesu.com>

US Headquarters 6125 Phyllis Drive, Cypress, CA 90630, U.S.A.

YAESU UK <http://www.yaesu.co.uk>

Unit 4, Concorde Park, Concorde Way, Segensworth North,  
Fareham, Hampshire PO15 5FG, United Kingdom

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