



Cobra®

CLASS-D FIXED MOUNT VHF RADIO

The latest in Class-D Digital Selective Calling (DSC) Technology.

Built in GPS Receiver

Simply connect the radio to power and the radio will know your location.

Rewind-Say-Again®

Replay missed VHF calls. Automatically records the last 20 seconds with a digital voice recorder.

Large LCD screen

Large and bright LCD screen for easy viewing.

PA Output

PA function for public address to external speaker.

Submersible

Designed to IPX8 (JIS8) standards.

Softkey Operation

Easily make calls, activate advance features and navigate through menus.

Radio Check

Checks battery voltage when transmitting, RF power output, and antenna output.





MR F77W GPS E

Features

Benefits

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|---|--|
| DSC (Digital Selective Calling) | Compliant with the latest specifications for Class-D VHF Radios. Digital Selective Calling allows you to send a distress signal at the touch of a button or exchange position information with other boats or stations. DSC features on this Class-D radio include; A Dedicated Channel 70 (DSC Channel) Receiver, GPS Position Display Capability, Illuminated Distress Button, Easy MMSI Entry, Position Send and Request, Position Input Reminder, Coast Guard DSC Check Capability, etc. |
| 1 or 25 Watts | Dual output power for short and long communication. |
| International, U.S.A., & Canada Channels | Allows operation on any of the three (3) different channel maps established for these areas. |
| Rewind-Say-Again® | Replay missed calls. Automatically records the last 20 seconds of incoming radio transmissions. Handy when in noisy conditions. |
| Radio Check | Checks battery voltage when transmitting, RF power output, and antenna output. |
| Instant Channel 16 | Instant access to channel 16 for emergency situations. |
| GPS Inside | Simply connect the radio to power and the radio will know your location. You can send your position information in case of emergency, or exchange position information with other boats. |
| Dual Watch | Monitors two (2) channels at once - Channel 16 and one (1) user selected channel. |
| Scan / Memory Scan | Scan all channels to find conversations in progress, or scan channels placed into memory. |
| Channel Names | Friendly VHF channel names under the channel number. |
| Signal Strength Meter | Shows the strength of incoming signal. |
| Illuminated Keys | Allows high visibility of keys. |
| Illuminated LCD Display: Super Large | See radio settings from practically anywhere with the largest LCD available on a fixed radio. |
| Noise Canceling Microphone | Blocks background noise. |
| External Speaker and PA Speaker | Connect an external speaker and a PA (Public Address) speaker. |
| NMEA In and Out | NMEA in for GPS input. NMEA output to display other vessels and their information transmitted by DSC on your chartplotter. |
| Submersible | Meets JIS8/IPX8 standards; Submersible for 30 minutes in 1.5 meter deep water. |
| External Alarm Input | Senses the alarm from your chartplotter and uses the speaker on the radio to amplify the alarm for waypoint arrival, MOB, etc. |
| ATIS | Capable of operating within the Automatic Transponder Identification System. ATIS includes data at the end of a transmission for station identification. |
| 3 Year Warranty (on radio) | For products sold in the U.S.A. |

Included Accessories

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|--|---|
| Flush Mount Kit & Surface Mount Kit | Easy installation of radio in or on almost any flat surface with supplied hardware. |
| NMEA Input Cable | Allows input from NMEA 0183 devices. |



Unit Specifications

General

| | |
|--------------------|---|
| Number of Channels | All: International, U.S.A., & Canadian Channels |
| Channel Spacing | 25 kHz |
| Modulation | 5 kHz Max. |
| Input Voltage | 13.8 VDC |
| Current Drain: | |
| Stand-by | 200 mA |
| Receive | 300 mA |
| Transmit | 5 A @ High Power 1 A @ Low Power |
| Temperature Range | -20°C to 60°C |
| Unit Dimensions | 6.25" x 2.25" x 7.125" (159 mm x 57 mm x 180 mm) |
| Unit Weight (Lbs) | 2 lbs., 6.8 oz. (1100 g) |

Receiver

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|-----------------|---------------------------------------|
| Frequency Range | 156.050 to 163.275 MHz |
| Receiver Type | Double Conversion Super-Heterodyne |
| Sensitivity: | |
| 20 dB Quieting | 0.35 uV |
| 12 dB Sinad | 0.30 uV |
| AF Output | 4 Watts @ 8 Ohms |

Transmitter

| | |
|----------------------|---|
| Frequency Range | 156.025 to 157.425 MHz |
| RF Output Power | 1 or 25 Watts |
| Spurious Emissions | -75 dB @ High Power -72 dB @ Low Power |
| Microphone Type | Electret |
| Microphone Impedance | 2000 Ohms |
| Frequency Stability | +/- 10 ppm |
| FM Hum & Noise | 50 dB |

GPS

| | |
|-------------------------------------|--|
| Receiver | 56 channels |
| Acquisition Times: | |
| Hot | Nominal: < 1 second, Limit: +/- 5 seconds |
| Warm | Nominal: < 33 second, Limit: +/- 5 seconds |
| Cold | Nominal: < 35 second, Limit: +/- 10 seconds |
| Update Rate | Up to 5 Hz |
| Antenna Type | Internal patch antenna |
| GPS receiver first lock sensitivity | Nominal: -144dBm, Limit: 142dBm |
| GPS receiver tracking sensitivity | Nominal: -160dBm, Limit: 155dBm |
| Differential System Compatibility | EGNOS (Europe), WAAS (United States), MSAS (Japan), GAGAN (India) |
| NMEA Info: | |
| Output Specification | NMEA 0183- ASCII serial output |
| Electrical Standard | EIA-422 |
| NMEA Sentences | DTM, GGA, GLL, GRS, GSA, GSV, RMC, VTG |

Packaging Specifications

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|--------------------------------|----------------------------|
| Individual Clam/Box Dimensions | 3.25"H x 12.60"W x 9.70" D |
| Individual Clam/Box Weight | 3.7 lbs. |
| Master Pack Qty. | 2 |
| Master Pack Dimensions | 9.80"H x 13.80"W x 8.10" D |
| Master Pack Weight | 9.40 lbs. |
| SKU # (White) | MR F77W GPS E |
| UPC # | 0 28377 20184 4 |
| Master Pack Barcode | 5 0028377 20184 9 |
| SKU # (Gray) | MR F77B GPS E |
| UPC # | 0 28377 20190 5 |
| Master Pack Barcode | 5 0028377 20190 0 |

Specifications subject to change without notice.

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* Packaging is made from recyclable materials.