

# MR HH450 CAMO



**Cobra**  
**MARINE®**



## COMBINATION VHF AND GMRS RADIO

### RealTree® Max 4 Pattern Design

### All-Terrain-Radio™

Use on boats, ATVs, snowmobiles, roadtrips and many other uses.

### Rewind-Say-Again®

Replay missed VHF calls.

### Privacy combinations

1815 GMRS privacy combinations.

### FLOATING

Never lose your radio. Floating design and orange core makes retrieving the radio easy if dropped overboard.

### Weather Alert with S.A.M.E.

Weather and emergency alerts only if threat is nearby.

### Ultra-Compact Design

Ergonomic, rugged and compact design is easy to hold and intuitive to operate.



**REALTREE®**  
**MAX-4**



# MR HH450 CAMO

## Features

## Benefits

<b>All-Terrain Radio™</b>	Dual Band Receive and Transmit. One BAND button allows you to switch from the GMRS to VHF bands. You can talk to GMRS users on the dock or ashore and easily switch to the VHF Band for routine or emergency vessel to vessel or vessel to shore communications.
<b>Rewind-Say-Again®</b>	Replay missed VHF calls. Automatically records the last 20 seconds of incoming audio.
<b>FLOATING</b>	Never lose your radio. Floating design and orange core makes retrieving the radio easy if dropped overboard.
<b>Noise-Canceling Microphone</b>	Blocks background noise for clearer conversations.
<b>6 Watt VHF and High Power GMRS</b>	Select between Low, Medium and High power for short and long range communication.
<b>U.S.A., Canada &amp; International Channels</b>	Allows operation on any of the three (3) different channel maps established for these areas.
<b>All NOAA Weather Channels</b>	Instant access to national All Hazards and weather information, 24 hours a day.
<b>Weather Alert with S.A.M.E.</b>	Alerts with audible tone and visual alarm only if threatening weather is nearby. S.A.M.E. (Specific Area Message Encoding) allows setting your local area and filtering out warnings from further away.
<b>BURP</b>	Vibrates water out of the speaker grill and improves speaker performance.
<b>Patented VibrAlert®</b>	Enhanced vibrating feedback to notify you of incoming transmissions.
<b>VOX</b>	The user's voice is detected and the radio transmits without the need to press any buttons, freeing hands for other tasks. Five VOX sensitivity levels allow the user to select at which point the radio will detect their voice.
<b>Advanced GMRS Scan</b>	Allows the user to scan either channels, CTCSS privacy codes within a channel, DCS codes within a channel, or up to 10 memory locations to locate conversations in progress.
<b>Rated Submersible</b>	Meets JIS7 (IPX7) standards; submersible for 30 minutes in one meter deep water.
<b>External Speaker/ Microphone Jack</b>	Connect Cobra speaker mic accessories for hip or body worn operation.
<b>Instant Channel 16</b>	Instant access to channel 16 for emergency marine situations.
<b>Unlimited Memory Channels</b>	Allows programming of unlimited channels for easy retrieval or scanning.
<b>Tri-Watch</b>	Monitors three (3) channels at once - channel 16 and two (2) user selected channels.
<b>Scan</b>	Scan all channels to find conversations in progress.
<b>Advanced Memory Scan</b>	Scan channels programmed in memory to find conversations in progress. Cross-band scanning allows scanning for conversations on both saved and GMRS channels.
<b>Signal Strength Meter</b>	Shows the strength of the receiving and transmitting signal.
<b>Button/Key Lock</b>	Locks function buttons/keys to eliminate accidental change of settings.
<b>Battery With Charge Contacts</b>	Allows charging of batteries in unit.
<b>Illuminated Function Keys</b>	Allows high visibility of function keys.
<b>Selectable Key Tone Beep</b>	Key tone press beeps can be turned off to silent operation.
<b>Large, Illuminated LCD Display</b>	Allows high visibility of display.
<b>3 Year Warranty (on radio)</b>	For products sold in the U.S.A.

## Included Accessories

<b>CM 110-026</b>	1000mAh LiON Polymer Rechargeable Battery (black color).
<b>CM 110-030</b>	Locking Desktop Charger.
<b>CM 120-005</b>	AC Adapter with North America Plug.
<b>CM 130-005</b>	12V DC Accessory Plug.
<b>CM 300-003</b>	Replacement Dual Band Antenna (VHF/GMRS).
<b>CM 240-003</b>	Spring-Loaded Belt Clip.

## Optional Accessories

<b>CM 110-024</b>	Alkaline battery tray. Use with AA Alkaline Batteries.
<b>CM 330-001</b>	Lapel speaker/mic.
<b>CM 110-026</b>	Replacement or back-up 1000 mAh LiON Polymer Rechargeable Battery (black color).

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## Unit Specifications General

Number of Channels	All: U.S.A., Canadian, International, 10 NOAA Weather Channels, GMRS- 15 Channels
Channel Spacing	25 kHz
Modulation	5 kHz Max.
Input Voltage	7.4 VDC
Battery Life:	5% TX, 5% RX, 90% Standby 8 Hours @ 6 Watts 16 Hours @ 1 Watt
Battery Requirements	Cobra Battery Pack CM 110-026
Current Drain:	
Stand-by	45 mA
Receive	200 mA
Transmit	1.8 A @ High Power 700 mA @ Low Power
Temperature Range	-20°C to 50°C
Unit Dimensions	11.65" H x 2.70" W x 2.17" D (including antenna) (296 mm x 68.5 mm x 55.2 mm)
Unit Weight (Lbs)	0 lb., 9.61 oz. (272.3 g.) (without accessories)

## Receiver

Frequency Range	VHF- 156.050 to 163.275 MHz GMRS- 462.550 to 467.7125 MHz
Receiver Type	Double Conversion Super-Heterodyne
Sensitivity:	12 dB Sinad -121 dBm
Adjacent Channel Selectivity	-60
Intermodulation and Rejection	-70
Spurious & Image Rejection	-60
AF Output	250 mW @ 8 Ohms

## Transmitter

Frequency Range	VHF- 156.025 to 157.425 MHz GMRS- 462.550 to 467.7125 MHz
RF Output Power	1, 3 or 6 Watts (VHF) 1, 2 or 3 Watts (GMRS)
Spurious Emissions	-60 dB @ High Power -55 dB @ Low Power
Frequency Stability	+/-5 ppm
FM Hum & Noise	40 dB

## Packaging Specifications

Individual Box Dimensions	11.22" H x 9.45" W x 3.07" D (285 mm x 240 mm x 78 mm)
Individual Box Weight	1.7 lbs. (770 g.)
Master Pack Qty.	2
Master Pack Dimensions	11.02" H x 7.09" W x 8.86" D (280 mm x 180 mm x 225 mm)
Master Pack Weight	4.10 lbs. (1860 g.)
SKU #	MR HH450 CAMO
UPC #	0 28377 20172 1
Master Pack Barcode	5 0028377 20172 6

Specifications subject to change without notice.



Dual Band Receive & Transmit



Floats if Dropped



Replay Missed VHF Calls