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## MarCum M5LR

# MarCum M5LR Flasher System Instruction Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your MarCum M5LR Flasher System. The M5LR is an advanced ice fishing fish finder designed to provide clear and precise sonar readings, enhancing your fishing experience. It features Max Brightness and Clarity (MBC) lighting, 2,500 watts of power, a dual-beam transducer, superior target separation, and patented infinitely adjustable zoom.

## 2. SETUP

### 2.1 Unpacking and Component Identification

Carefully unpack all components and verify the contents:

- MarCum M5LR Flasher Unit
- Roamer Case
- MarCum Brute 12V10AH Lithium LiFePO4 Battery
- 3-amp Rapid Charger
- Dual Beam 8/20 Degree Transducer with 8 ft. cable



Image: The MarCum M5LR Flasher System housed within its Roamer Case, with the transducer visible at the front.

## 2.2 Battery Charging

Before first use, fully charge the MarCum Brute 12V10AH Lithium LiFePO4 Battery. Connect the 3-amp Rapid Charger to the battery and plug it into a standard wall outlet. The charger's indicator light will show charging status. Ensure the battery is fully charged for optimal performance.



Image: The MarCum Brute 12V10AH Lithium LiFePO4 Battery alongside its 3-amp Rapid Charger.

## 2.3 System Assembly

1. Place the M5LR Flasher Unit securely into the designated compartment within the Roamer Case.
2. Insert the fully charged Lithium battery into the battery compartment of the Roamer Case.
3. Connect the power cables from the flasher unit to the battery terminals (red to positive, black to negative).
4. Route the transducer cable through the designated opening in the case and connect it to the flasher unit.



Image: The MarCum Roamer Case opened, revealing the internal compartments for the flasher unit and battery.

## 2.4 Transducer Deployment

For ice fishing, lower the transducer into the ice hole. Ensure it hangs freely and is level in the water. Adjust the depth so the transducer is below the ice but not touching the bottom, allowing for optimal sonar signal transmission.

### 3. OPERATING INSTRUCTIONS

#### 3.1 Powering On/Off

To power on the M5LR, turn the GAIN knob clockwise from the 'OFF' position. To power off, turn the GAIN knob counter-clockwise until it clicks into the 'OFF' position.

#### 3.2 Controls and Functions



Image: A detailed view of the MarCum M5LR Flasher's circular display and control knobs/buttons.

- **GAIN Knob:** Controls the sensitivity of the sonar signal. Start with a lower setting and gradually increase until you see a clear bottom reading and desired targets. Avoid excessive gain, which can introduce clutter.
- **RANGE Knob:** Selects the depth range for the display. Available ranges are 20', 40', 80', and 160'. Choose a range appropriate for your fishing depth.
- **ZM (Zoom) Button:** Activates the patented Infinitely Adjustable Zoom feature. Pressing this button allows you to zoom in on any section of the water column, providing a magnified view for precise target identification. Use the UP/DOWN buttons to adjust the zoom window.
- **IR (Interference Rejection) Button:** Cycles through 12 interference rejection settings. If you experience signal interference from other sonar units, press this button to find a setting that minimizes noise and clarifies your display.
- **NBT (Noise Blanker) Button:** Provides additional noise reduction, particularly useful in electrically noisy environments.
- **SFL (Split Flasher) Button:** (If applicable) This feature may split the flasher display to show a full-screen view and a zoomed view simultaneously, offering enhanced detail.

#### 3.3 Interpreting the Display

The M5LR's circular flasher display shows real-time sonar returns. Different colors indicate signal strength:

- **Green:** Weakest signal returns, typically small fish or bait.
- **Orange/Yellow:** Medium strength returns, often larger fish.
- **Red:** Strongest returns, indicating large fish or the bottom.

The 3/4-inch target separation allows you to distinguish individual fish, even in schools, and differentiate them from the bottom structure.

## 4. MAINTENANCE

### 4.1 Cleaning

- Wipe the flasher unit and transducer with a soft, damp cloth after each use. Avoid abrasive cleaners or solvents.
- Ensure the transducer face is clean and free of debris for accurate readings.
- Clean the Roamer Case with a mild soap and water solution if necessary.

### 4.2 Battery Care and Storage

- Always fully charge the Lithium battery before long-term storage.
- Store the battery in a cool, dry place. Avoid extreme temperatures.
- Periodically check the battery charge during extended storage and recharge if necessary to maintain battery health.

## 5. TROUBLESHOOTING

- **No Power:** Ensure the battery is fully charged and all power connections are secure. Check for any loose wires or corrosion on terminals.
- **Weak or No Signal:** Verify the transducer is properly submerged and connected. Adjust the GAIN setting. Check for ice buildup on the transducer face.
- **Excessive Noise/Clutter:** Utilize the IR (Interference Rejection) and NBT (Noise Blanker) functions. Move away from other sonar units if possible.
- **Incorrect Depth Readings:** Ensure the transducer is level and not obstructed. Verify the RANGE setting is appropriate for the current depth.

If issues persist, consult the MarCum website or contact customer support for further assistance.

## 6. SPECIFICATIONS

Feature	Specification
Brand	MarCum
Model Name	M5LR
Power Source	Battery Powered (MarCum Brute 12V10AH Lithium LiFePO4)
Screen Size	4 Inches (Flasher Display)
Display Type	Color TFT
Power Output	2,500 Watts (Peak-to-Peak)
Transducer	Dual Beam 8/20 Degree
Target Separation	3/4-inch
Selectable Ranges	20', 40', 80', 160'

Feature	Specification
Interference Rejection	12 Settings
Zoom Feature	Patented Infinitely Adjustable Zoom
Included Components	Complete M5LR Flasher System
Item Dimensions (LxWxH)	10 x 8 x 11 inches
UPC	850013782444

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

The MarCum M5LR Flasher System comes with a **Two Year System Warranty**. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or visit the official MarCum website.

### 7.2 Customer Support

For technical assistance, troubleshooting, or service inquiries, please contact MarCum customer support. Contact information can typically be found on the MarCum website or in the packaging materials.