



Camera Functions

The camera of your LX-9L can be used to search for that perfect weed line or locate the crib or rock pile where fish will generally school, entertain the kids, or as the perfect tool to enhance your ice fishing experience. To use the camera, make sure the camera cable is attached to the pigtail video plug coming out of the back of your monitor. Press the MENU button and highlight "View Mode". Selecting "Camera", "Heads Up", or "Split Screen" will allow video from your Manta camera to be displayed in various configurations.

The MENU Key, which also functions as the ENTER Key, opens up five sub-menus. They are as follows:

VIEW MODE – here you select between sonar only, camera only, "heads-up" [featuring sonar on top of video], and split screen.

DISPLAY OPTIONS – this is where you customize your display by selecting which sonar features, color palette, background and other features are displayed on your dashboard

PLAY/RECORD – this is where you make and playback recordings, adjust your camera settings, and turn the camera light on/off.

SONAR SETTINGS – this is where you may adjust sensitivity, target adjust, zoom, and other sonar related features.

SYSTEMS SETTINGS – calibrations and other system settings are adjusted here

Charging

To charge, simply couple the end of the charger with the end of the wiring harness. It is also normal for the light on the charger to be green if it is just plugged into the wall. When it is plugged into the wall and battery, you will see a red LED light appear on the charger. If the light is red, the battery is being charged. When your battery is fully charged, this red light should change to green.



Warranty

MarCum warranties this product to be free from defects in materials and workmanship for two years from the date of purchase. The warranty of the battery may differ from the system warranty, see website for details. This warranty applies to customers who properly complete the online product registration form found on the MarCum Technologies Website: www.MarCumTech.com

Service

If your unit is malfunctioning, check the support section of our website. You may find that the solution to your problem is something you can resolve yourself. If you need to send it in, there is no need to contact our office. Getting repairs made is as simple as going to our website, MarCumtech.com clicking the support tab and then filling out the MarCum Warranty claim.



MarCum User Manuals are available for download from www.MarCumTech.com

Les manuels d'utilisation de MarCum sont disponibles en téléchargement sur www.MarCumTech.com

*Actual run times may vary depending on conditions.

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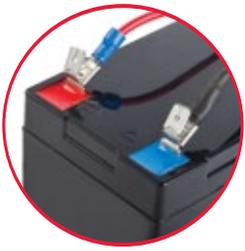
LX-Series

Digital Ice-Sonar

Quick Start Guide



www.MarCumTech.com



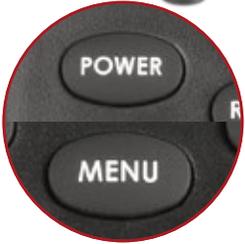
Connect Power

Your Digital Sonar comes virtually ready to fish. Open the top cover of the soft pack, loosen the knobs and the monitor can now be positioned how you want it. Once the monitor is positioned, tighten the knobs again to hold the monitor in place. Look behind the monitor and connect the red wire to the red terminal and the black wire to the black terminal on the battery.



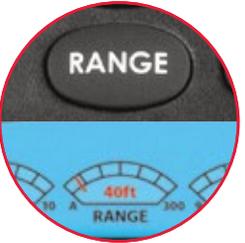
Deploy the Transducer

When used in conjunction with the retractable pivoting transducer arm and rubber stopper, the transducer will automatically level itself in your ice hole. To begin operation, take the transducer out of the recessed holder, and rotate the adjustable ice arm out from inside the shuttle. Extend the transducer arm, (the cable should already be threaded through it with stopper in place) and deploy the transducer into the water.



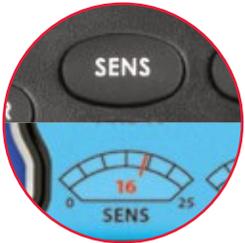
Power up the system

Using the MarCum Digital Sonar can be as simple as pushing the Power Button—the factory settings will come on automatically and allow you to use the Digital Sonar in the most popular configuration. Hit the Menu Key to explore all the options available to customize your Display. With five different sonar portals, four different color palettes, two cone angles, and a myriad of other settings, there are many possibilities.



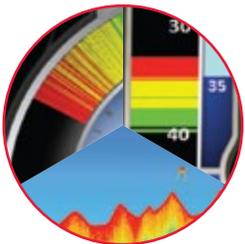
Adjust the Range

Our Digital Sonar feature nine different fixed ranges, as well as the ability to create custom ranges using the Dynamic Depth feature. Pressing the RANGE Key on your Digital Sonar will open a sub-menu with four different options. Auto, Manual, Dynamic, & Manual Dynamic. In situations where there is heavy weed growth, uneven bottom, or very shallow water, it is suggested that the user manually selects a fixed depth range.



Adjust the Gain

To adjust your sensitivity, first press the SENS button and a bar will appear at the bottom of your display. Pressing the UP/DOWN will adjust your sensitivity displayed on the SENS gauge. The best SENS setting is achieved by turning up your sensitivity until you receive a clear and steady bottom reading. To see your lure or bait, turn up the SENS until you just begin to display your bait without it fading or flickering.



Bottom Return

Hard-bottom readings (rock or gravel) will be displayed by a wide band of RED light indicating a strong signal. Conversely, a soft bottom (mud or silt) will return a weaker signal and will result in a narrower RED band or even a combined RED and GREEN band. A soft bottom with weed growth will often appear as a narrow RED or GREEN band combined with both solid and broken YELLOW segments indicating weeds.



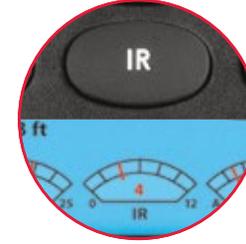
Zoom Function

The ZOOM Key allows you to select the upper limit of the zoom window. The actual size of the Zoom window can be adjusted in the Main Menu. The Zoom feature allows you to focus the display on a specific depth within the water column, and can be a great benefit in a variety of fishing situations. To activate the Auto Bottom Lock Zoom, press ZOOM, and then press the UP button until "A" (Auto) appears.



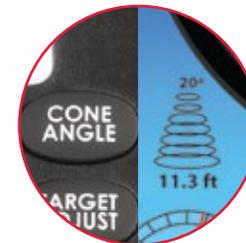
Target Adjust

This feature allows the angler to change the size of the signals being displayed without increasing the sensitivity. The TARGET ADJUST feature will give you the smallest, signal size at "0", and the signals displayed will get thicker as you increase the TARGET ADJUST. This feature should be used in conjunction with the SENS to fine-tune your display.



IR Button

When other sonar units are causing interference to the display, activate the IR feature by depressing the IR key. There are 12-levels of Interference Rejection, and each press of the Up/Down Keys will change the level of Interference Rejection. The correct level of IR will be achieved when the display is clear of display clutter. In some extreme cases, clutter will be greatly reduced but not eliminated, try changing your Cone Angle.



Adjust the Cone Angle

When the Digital Sonar is first turned on, it will be transmitting utilizing the 20-degree setting. To switch from 20° to 8°, simply press the CONE ANGLE button once and use the UP/DOWN buttons to highlight the desired selection. As the cone angle changes, the Sonar Footprint will change with it. This data is displayed below the cone angle icon, and represents the diameter of the base of the transducer cone.



LiFePO₄ (L-Series)

Our most powerful and precise True Time® sonar engine now comes with the lightest, longest lasting, and fastest charging power source. Reduction in weight along with increased run times and faster recharge rates means you'll spend more time fishing and less time re-powering. The L-Series comes equipped with a 12-volt 10amp LiFePo4 battery weighing less than 3 pounds. *Estimated run times: 18 hours (LX-7L) and 13 hours (LX-9L).



LITHIUM SHUTTLE (Li-Series)

Add the long-life power of Lithium ION to your sonar units. Compact, lightweight and long-lasting, the Lithium Shuttle, powered by a 12-volt 12-amp hour Lithium ION polymer battery, can extend your unit's continuous run time. Equipped with a LED light, battery status indicator, dual USB power ports, dual rod holders, and four 1/4 - 20 Ports for Additional Accessories. *Estimated run times: 22 hours for the LX-7Li.