

MarCum
TECHNOLOGIES

PURSUIT HD



PURSUIT HD

The Pursuit HD viewing system comes complete with everything needed to enjoy the world of underwater viewing. It features a 5" Screen with a multi-purpose sun shield/screen protector. The camera features both visible LED lights as well as a stealthy infrared option for viewing in low light situations. A built in DVR allows for video recording as well as capturing photos of the action. Incorporated into the camera system are on screen displays of depth, temperature, and camera direction. The system is powered by an internal rechargeable Lithium Ion battery that provides up to 6 hours of continuous run-time. Included with your system are a charger and cable, protective soft-pack, and camera storage sack. The Pursuit HD features a ¼"- 20 insert that allow for limitless mounting options (Mounts not included). It is located on the bottom edge of the system. The charging port and HD video out port are located on the Left of the monitor, and can be accessed by lifting the protective rubber cap.

SPECIFICATIONS

Display:

- 5" Widescreen HD LCD Monitor
- 6:9 Aspect Ratio, Sunlight Readable
- 1920 x 1080 Pixel Hi-Res Color
- Operating Temperature: -10C to +40C

Power:

- Rechargeable Internal Lithium Battery
- (Up-to 6 Hours of Continuous Run-Time)
- USB Charger & Cable

Display Adjustments:

- Brightness
- On-Screen Display
- Units

Camera:

- 1/3" CMOS Sensor Offers Optimal Low-Light Performance
- 110° Field of View
- Darkwater Adjustable LED or IR Lighting
- 50 ft. Camera Cable

Additional Features:

- Built-In DVR with .MP4 File Format
- Built-In Sunshield & Screen Protector
- HD Video Out
- Soft Pack & Camera Sack
- 1-Year Warranty
- Supports up to a 128 GB Micro-SD card

GETTING STARTED

The Pursuit HD has an on-screen display of the battery status found in the upper left side of the video image. Once the video image starts the battery status indicator will detail a series of green bars. Three full green bars will indicate a full charge.

Charging:

To charge the Pursuit HD, power the system off (5 second hold of power button) and locate the rubber cap on the left side of the. Lift the rubber cap to expose the USB Charging port. Insert the supplied USB cable and connect it with the supplied charger, or any USB port. Once the charger is connected to either the wall outlet or USB port, the charge indicator light (under the rubber cap of unit next to Micro-SD Card Slot) will illuminate – red indicates that the system is charging, green indicates the system is fully charged. When using the wall outlet there is a light on the charger that will always be green when plugged in. This light will indicate there is power being supplied. To verify if the system is charged, please check the charge

indicator light on under the rubber cap. Once charging is complete, unplug the charger, remove the USB charging cable from the system, and properly seal the rubber cap. Best practice is to charge after every use regardless of how far down the battery was discharged. This will ensure the longest run-time each time the system hits the water.

OPERATION

The Control panel located on the front right side of system features four buttons, with one on the left side.

Power Button

The bottom button powers the system on and off. Press the power button to turn the system on. A start up screen with the MarCum logo will briefly show, followed by the video image. To turn the system off press and hold the power button for 5 seconds until the system shuts down. A quick press of the power button will also act as a back button while in the menu screen.

LED/Up Arrow Button

The LED/Up arrow button serves a dual purpose. When selected it will turn on and increase the intensity of the LED lights. An on-screen display will be shown momentarily to indicate the light intensity level selected. There are four intensity levels and an off selection. When in the menu section of the system, this button serves as an up selection.

IR/Down Arrow Button

The IR/Down arrow button serves a dual purpose. When selected it will turn on and increase the intensity of the Infrared lights. An on-screen display will be shown momentarily to indicate the light intensity level selected. There are four intensity levels and an off selection. When in the menu section of the system, this button serves as a down selection.

Menu/Enter Button

The Menu/Enter button serves a dual purpose. Pressing once accesses the Menu system. Once inside the menu system it functions as the enter button.

Record Button

The Record button on the left side of the screen serves a dual purpose to both take a picture and record video. (see "Built-In DVR")

PURSUIT HD MENU OPTIONS

For ease of use, the menu system on the Pursuit HD times out after a 5 second period of inactivity and defaults back to the camera image without any additional keystrokes required.

Enter the Menu system with a single press of the top Menu/Enter button. Use the Up or Down arrow buttons to navigate to the desired selection, followed by the Enter button to enter and change that setting. Repeat this process within the other menu sub-sections to make adjustments.

Monitor Setting

Brightness - Controls the monitor backlight.

OSD – Set the on-screen displays on or off.

Units – Controls OSD displays in either standard or metric units.

NOTE: Once the desired setting has been adjusted, press enter. This will change the desired setting and return you to the previous menu.

System Setting

Time – Set the current time

Date – Set the current date

Format – The micro-SD card must be formatted prior to recording media for the first time. Once formatted, recording to the card is available. (See “Formatting the micro-SD card”)

Default – Selecting “Yes” will restore the factory settings.

Version – Shows the current software version the system is operating with.

Calibrate – Select and follow instructions to calibrate the on screen displays of depth, relative direction, and temperature (see “Calibration”)

Exit

Exit – This selection will exit user out of the Menu main page

PURSUIT HD FEATURES

Camera Lights

The Pursuit HD is equipped with both LED and Infrared Lighting (IR) options. Each lighting option has multiple intensity levels.

To turn on the LED lights, use the LED/UP button on the control panel. Pressing this button once will turn the lights on. The on-screen display will show momentarily on the bottom of the monitor. To increase the intensity of the lights, press the button until you reach the desired intensity level. There are four settings available and the fifth press will turn the lights off.

The infrared lights offer a stealthy approach because infrared lights are not visible to the eye. To turn on the infrared lights, use the IR/Down button on the control panel. Pressing this button once will turn the lights on. An on-screen display will show momentarily on the top of the monitor. To increase the intensity of the lights, press the button until you reach the desired intensity level. There are four settings available and the fifth press will turn the lights off. Use the camera image along with the monitor on-screen display to gauge the desired intensity level.

Micro HD Video Out Port

On the left side of the monitor there is a rectangular rubber cap that protects the charging port and the Micro HD Video Out Port. Please make sure this cap is closed when not using the Micro HD Port to avoid potential water damage.

Utilizing the HD Video Port

There are many anglers with large ice fishing houses that are equipped with a TV inside. Video is easily sent from the Pursuit HD to your TV by simply running the proper cable from your TV to the Micro HD cable on the Pursuit HD. Make sure to select the correct input source on the external monitor.

Built-In DVR

The Pursuit HD has a built-in DVR that allows you to capture all the action below. All recorded media is saved to a micro-SD card (not included). The Pursuit HD will support up to a 128GB Class 10 micro-SD card (be sure the card has a class 10 symbol like the example on the right).



DVR OPERATION

Accessing the micro-SD card

To access the micro-SD card slot, open the rectangular rubber cap on the left side of the unit. The card can be inserted by placing it into the slot and pressing downwards until it clicks into place. To remove the micro-SD card, press down on the card. After it clicks and rises from the slot, grab the card to remove.

Formatting the micro-SD Card

The micro-SD card **MUST** be formatted prior to recording media. To format, insert the micro-SD card into the card slot on the left side of the unit. Press the MENU/ENTER button and select SETTING. In the SETTING sub-menu select SYSTEM SETTING and use the Up/Down arrows to select FORMAT then press MENU/ENTER.

By pressing the Up or Down arrows, set FORMAT to YES and press MENU/ENTER. Using the arrows scroll to the SAVE button and press MENU/ENTER to save the changes.

The micro-SD card **MUST** be formatted in the Pursuit HD. Files can be copied from the Pursuit HD to the PC, but you should not copy files onto the SD card from the PC and should not delete files on the SD Card from the PC. Files may be deleted on the Pursuit HD if desired or the SD can be reformatted on the Pursuit HD after copying files to the PC to “delete all files”.

Recording Video

To record a video press and hold the record button for approximately 3 seconds until a “REC” with a red circle icon appears in the upper Left-hand corner of the screen. This icon will blink while the unit is recording. To stop the recording, press the REC button again. Once the icon disappears, the unit is no longer recording.

Taking a Photo

The Pursuit HD has the ability to take a screen shot photo of what is currently visible on the screen. To take a picture, complete a quick press of the REC button. A red circle icon will momentarily appear in the upper Left-hand corner of the screen and then disappear, indicating that a picture was taken.

Accessing Media

Previously recorded videos and photos can be accessed by pressing MENU and then selecting LIBRARY by pressing the MENU/ENTER button. Once in the Library sub-menu you can select either PHOTO or VIDEO. Use the Up and Down arrows to cycle through the saved media. The upper left corner of the screen will display the total amount of videos or photos and which number you are currently viewing (i.e. 002/004; viewing number 2 of 4 total). Video files will also display the total time duration of the recording. All video files will automatically start when selected.

When viewing a video, pressing the MENU/ENTER button will display a menu with three options: Delete, Pause, and Exit. Use the Up and Down arrows to cycle through these three options and the MENU/ENTER button to select. If selecting the Delete option, another sub-menu will appear. To permanently delete the selected media, select Yes.

When viewing photos, pressing the MENU/ENTER button will display a menu with two options: Delete and Exit. Use the Up and Down arrows to cycle through these two options and the MENU/ENTER button to select. If selecting the Delete option, another sub-menu will appear. To permanently delete the selected media, select YES.

To load your media on your computer or other device you will need to use an SD/Micro SD card reader to transfer the files. If you are experiencing problems viewing your videos once loaded on your device, that specific viewer may not be compatible with the Pursuit HD recorded media files.

Recommended media players include: Quicktime, KMPlayer, Mplayer, GOMPlayer, and VLC. These media players should be downloadable on your device. Please use one of these players to view all recorded videos from your Pursuit HD. Windows Media Player will not support the Pursuit HD media files.

USING YOUR CAMERA

Once you have a working knowledge of the system you can successfully deploy the Camera in the water.

NOTE: Make sure to remove the protective plastic film that covers the lens for packaging.

Atop the Pursuit HD camera is a positioning system (three tabs). Set the cable to the correct position to select your viewing angle (see "Camera Positions").

The depth of field (distance the camera can see underwater) depends on the clarity of the water and the available light at the depth the camera is used. In clear water, the depth can be many feet but in cloudy or murky water the depth of field can be reduced to only a few inches due to particles suspended in the water. Dirty or murky water and/or low light penetration can detract from the quality of the color picture. Optimum color quality will result from clear water and adequate light penetration.

NOTE: The Color kill feature will turn on automatically when the camera's light sensor doesn't detect enough light for optimal color viewing. This can happen in low light conditions, in deep water, or when the ice is very thick and/or covered with snow.

Calibration

Calibrating the camera will provide accurate camera direction readings. To calibrate, first enter the SETTING menu, press MENU/ENTER and enter the SYSTEM SETTING sub-menu. Using the Up/Down arrows cycle to CALIBRATE and press MENU/ENTER. An on-screen instructional message will appear on the screen: "Press the up arrow and rotate the camera clockwise two full revolutions. Once complete press the down arrow to save"

Once you press the Up-arrow button to start the calibration the screen will display "calibrating". After two full revolutions have been achieved press the down arrow and the screen will display "calibrated" and the process is complete.

CAMERA POSITIONS

Horizontal

Horizontal viewing is available by setting the camera cable in the middle slot (forms a 90 degree angle). This view will show a horizontal view of the water column as a traditional underwater viewing system does.

Down View

The Pursuit HD has the ability to be positioned in a down view by removing the camera cable from the positioning system atop the camera (hanging directly by the camera cable). The camera will then hang vertically from the cable and send images of the water column below the camera.

Up View

An upward view of the water column is possible with a couple of adjustments. Insert the camera cable to the closest pathway to the camera lens, and carefully push the cable into that position to achieve the desired upward angle. The slightly upward view allows the Pursuit HD to gather more light to better view the water column in low light situations such as deeper depths, murky water, or low light periods such as dawn/dusk.

ON-SCREEN DISPLAYS

The Pursuit HD camera system features three On-Screen Displays (OSD), Depth, Camera Direction, and Temperature.

Depth

A depth OSD will display in the lower Right-hand corner of the screen. This feature alerts the user of the depth of the camera. The camera/pressure sensor will only give you a depth when in the water. The camera will not read depth outside of water. Outside of water it should read 0. If it does not read 0, a simple powering off of the system and then powering it back on will reset the reading to 0. This process should be done with the camera out of the water. The units can be changed from Standard to Metric, or vice versa in the MONITOR SETTING menu.

Camera Direction

The direction the camera is facing is displayed in the upper Right-hand corner of the screen. This direction will display as directions of the compass (N, NE, E, etc.) Compass direction is based off absolute "True North" direction. If the camera direction is not accurate it can be calibrated by following the instructions in the SYSTEM SETTING menu.

NOTE: The camera direction will only be accurate when the camera is in a horizontal viewing position.

Temperature

The current temperature of the water will display in the lower Left-hand corner of the screen. The units can be changed from Fahrenheit to Celsius, or vice versa in the MONITOR SETTING menu. The camera will not detect the air temperature correctly.

OPERATING POSITIONS

Handheld

The Pursuit HD is a palm-sized system with full sized performance. For handheld operation simply remove the Pursuit HD from the included soft-pack. Set the camera to the desired viewing position and deploy. Carefully watch the monitor image to avoid damaging the camera in rocks, submerged vegetation, brush piles or other harmful environments that could snag, wedge or damage the camera or cable; doing so will void the warranty.

Body Worn

The Soft-pack supplied with the Pursuit HD is designed to allow for hands free use of the monitor allowing the angler to focus on camera depth and positioning. Adjustable straps allow for comfort and viewing distance. The Camera can be deployed and accessed from the rear of the soft-pack, while the monitor rests securely within a comfortable viewing distance, with full access to the control panel.

Mounted

The Pursuit HD features a ¼ 20 insert on the bottom edge of the Camera Screen (Mounts not included). The ¼"-20 insert is the most common mounting option for photo/video equipment that provide limitless mounting solutions from aftermarket suppliers.

SYSTEM MAINTENANCE

The Pursuit HD camera system is manufactured to perform in a wide variety of environmental conditions. It is recommended when not in use to store the Pursuit HD indoors or in a climate controlled environment. Take care to avoid leaving your system in the cold, even when heading to the lake for an outing. The Pursuit HD operates using an internal lithium battery, and this battery can become damaged if left in the cold. For optimal performance, it is recommended to start with a full charge on the battery and to insulate the system from the cold during periods of non-use or transit.

One Year Warranty

MarCum warranties this product to be free from defects in materials and workmanship for one year from the date of purchase. This warranty applies to customers who properly complete the Online product registration form found on the MarCum Technologies Website:
www.marcumtech.com/support.

MarCum Technologies will repair or replace any components that fail in normal use. Failures due to abuse, misuse, unauthorized alteration, modification, or repair are not covered. The warranty is valid only for the original owner who purchases the unit from an authorized dealer. An original sales receipt dated within the warranty period is required for all warranty claims.

To best serve our customers, MarCum Technologies has set a standardized battery warranty policy. Battery warranty coverage requires a proof of purchase. Please see our website, www.marcumtech.com/support for full details on warranty coverage.

Battery Warnings

Do not immerse the battery in water or sea water. Keep the battery in a cool dry place when not in use. Do not use or leave the battery near a heat source (i.e. heater, furnace, fire). Use the battery charger only as directed when recharging. Do not reverse the positive and negative terminals on the battery connections. Do not discard the battery in a fire, furnace, or other combustible space. Do not connect the battery directly to an electrical outlet. Do not short –circuit the battery by directly connecting the positive and negative terminals with metal objects. Do not directly solder the battery or pierce the battery with a nail or other sharp objects. If the battery gives off an odor, generates heat, becomes discolored or in any way appears abnormal during use, or while recharging or discharging, immediately stop using it. If the battery leaks and the battery contents (electrolyte) gets into an eye, do not rub the eye. Instead, flush the eye(s) with clean water and immediately seek medical attention or it may result in injury to the eye(s). Do not use the battery in a location where static electricity or magnetic fields are great or it may result in damage to the battery safety devices. Do not leave the battery in high temperatures (i.e. in direct sunlight or in a vehicle in extremely hot weather) or it may overheat and its performance will be degraded and service life decreased. Tape the battery terminals prior to disposal to insulate them as discarded batteries may cause fire or explosion. For skilled person: **CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

- Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- Manufacturer: Electronics Technologies LLC, 3943 Quebec Ave N Minneapolis, MN 55427

HOW TO OBTAIN SERVICE

If your system 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.

Once you have completed and submitted a warranty claim, package the system as described on the website and ship it to us.

If your system is out of warranty, it is as simple as going to our website and filling out a MarCum non-warranty claim. Once you have completed the non-warranty claim, package the system as described on the website and ship it to us. All non-warranty repair pricing is determined after the system is received by us.



www.MarCumtech.com

Some people are more comfortable calling for shipping instructions. During peak ice season, we sometimes receive a high volume of calls, making it impossible to get to all customers who phone in. For this reason, strongly consider using the Online forms at www.marcumtech.com/support or using the "Live Chat" option.

**OUR ADDRESS:
MARCUM TECHNOLOGIES
ATTN: SERVICE DEPT.
3943 QUEBEC AVE NORTH
MINNEAPOLIS, MN 55427**

Please send your email inquiries to:

service@MarCumTech.com

If you are unable to use email or internet, you may call us at **763-512-3987**. Our office hours are Monday – Friday, 8 – 4 Central Time. International callers may use 888-778-1208.

The customer is responsible for shipping costs associated with returning the system to MarCum Technologies. MarCum will pay for shipping the repaired system back to the customer while it is still under warranty. All out of warranty services will be charged a fee for service which must be paid in advance. The unit should be securely packed and shipped "pre-paid freight" and insured to MarCum Technologies. It is the customer's full responsibility to track their products sent out in the mail or other forms of delivery service. MarCum Technologies will not be liable for packages lost in route to us. Unless specified otherwise, do not include batteries or other accessories when returning the product for repair. MarCum Technologies will not be responsible for lost or damaged accessories. Turnaround time can vary, on average it is about 1 week.



www.MarCumtech.com

WARRANTY SERVICE FORM
FILL OUT THIS FORM AND ENCLOSE IT IN THE BOX
ALONG WITH A COPY OF YOUR RECEIPT

Name

Complete Shipping Address

State/Province

Zip/Postal Code

Daytime/Cell Phone #

Email Address

Which MarCum do you have?

Date of Purchase

Description of the issue

MarCum Technologies
Attn: Service Department
3943 Quebec Avenue North
Minneapolis, MN 55427

MarCum
TECHNOLOGIES

PURSUIT HD



www.MarCumtech.com

MarCum Technologies
3943 Quebec Ave N
Minneapolis, MN 55427



MarCum User Manuals are available for downloads from
www.MarCumtech.com.
2020-1009