

HYDROVIEW *SPORT*™

— remote controlled underwater vehicle with live video —

VERSION 3



For software 5.3 and higher.

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HYDROVIEW *SPORT*™

Trademarks used in this guide, Aquabotix and HydroView, are trademarks of Aquabotix Technology Corporation. Other names mentioned in this guide may be trademarks or registered trademarks of their respective owners. The purpose of this manual is to provide HydroView users with a clear understanding of operating procedures. If further information is needed, contact Aquabotix at info@aquabotix.com or 508.676.1000.

website: www.aquabotix.com

Important Safety Instructions

Assemble and use HydroView only as instructed by this manual.

Read and follow these important safety instructions and the detailed assembly in this manual prior to using the HydroView.

Follow all safety and operational warnings.

Heed all additional restrictions on use.

Refer all non-routine service issues to Aquabotix at www.aquabotix.com or info@aquabotix.com.

Safety and Operational Warnings

Assemble HydroView in a safe, dry place. Do not assemble while submerged in water or allow HydroView to get wet before it is fully assembled. Do not assemble with wet hands.

Do not attempt to open the vehicle at any time.

HydroView is powered by Rechargeable Ni-MH battery pack. Do not attempt to replace these at any time. Contact Aquabotix if the vehicle isn't charging.

When using topside power to charge your HydroView, use caution to prevent shock or damage.

The HydroView dome must be completely secured to keep it watertight.

The topside box is not waterproof. Do not submerge the topside box in water.

HydroView is meant for depths no greater than 150 feet from the waters surface and 300 feet from its starting point.

Do not go beyond these depths due to limitation as operational safety is not tested and rated for such depths.

Secure all cables on board to prevent tripping hazards.

Ensure watertight connector cable is secured to the topside box before use.

Be careful of propellers when in use. Do not stick fingers, etc. in or near the propellers.

Do not run the propellers while out of the water, it will cause harm to them.

Additional Restrictions On Use

HydroView is meant for operation by adults over 18 years of age only.

Keep HydroView out of the reach of children and supervise children and pets when HydroView is in operation.

Do not use HydroView in rain, rough sea conditions and/or storms.

Do not use HydroView while underwater machinery is in operation.

Do not touch HydroView to underwater marine growth. Keep HydroView clear of all underwater objects.

Do not expose HydroView to high temperatures above 35° Celsius/ 95° Fahrenheit; avoid direct sunlight. Do not leave case in direct sunlight.

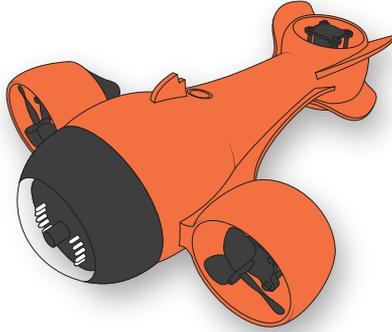
Use HydroView in the recommended operating water temperature range of 0° Celsius/32° Fahrenheit to 35°Celsius/95° Fahrenheit.

Dropping HydroView or subjecting it to strong force may damage the vehicle and its watertight dome and propellers. Handle with care.

Be careful of propellers when in use. Do not stick fingers, etc. in or near the propellers.



Failure to follow these important safety instructions and the detailed assembly and use instructions of this manual will void your limited warranty from Aquabotix and may result in serious injury or death. Aquabotix disclaims all liability arising from or caused by the failure to assemble and use HydroView in accordance with this manual, including all important safety instructions.

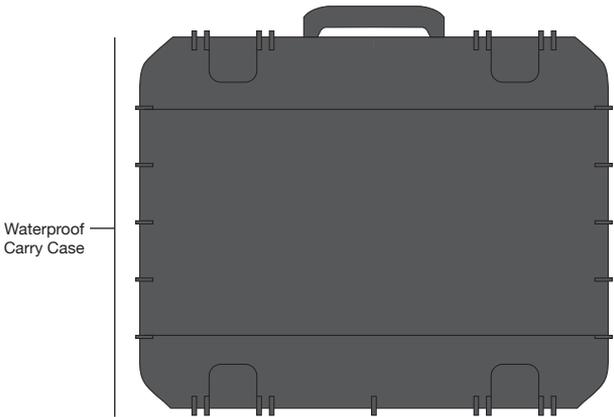
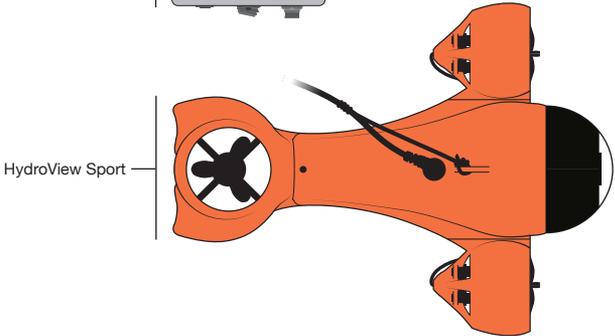
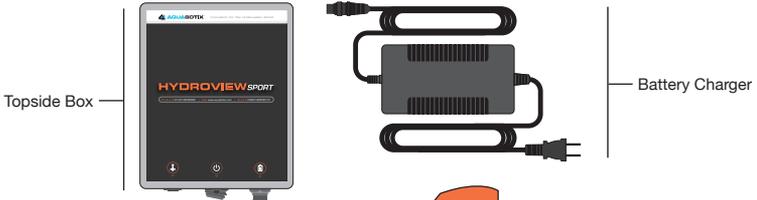


Chapter 1

Vehicle

The HydroVeiw Sport Vehicle lets you see the underwater world in an innovative way—whether it's searching for lost valuables, studying marine life, checking water depths or performing a critical inspection under your boat. Stay dry and safe from topside while recording videos and snapping photos to upload and share on social media sites.

At a Glance

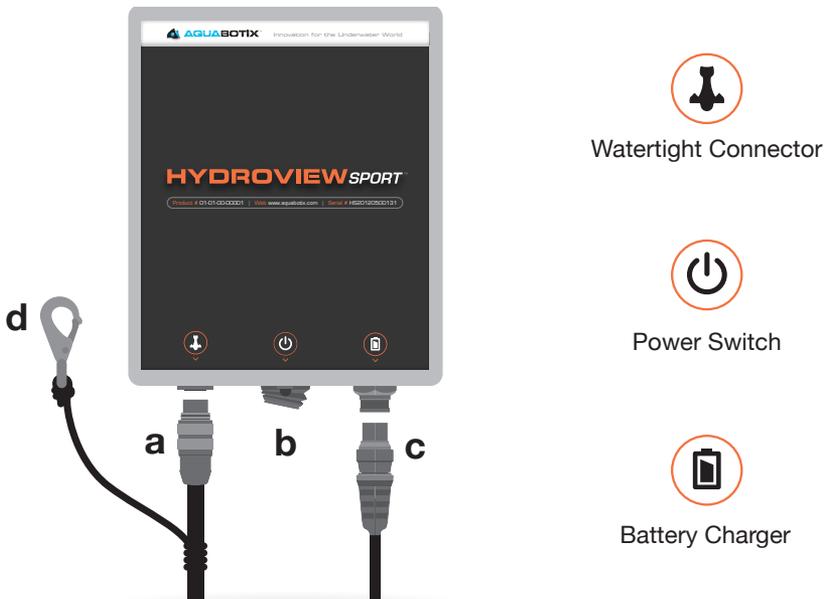


Tech Specs

Vehicle Dimensions	Length:19.5" Width:14.5" Height: 7"
Weight	10 lbs.
Depth (cable dependent)	Standard: 75 ft. cable Optional: 75 ft. or 125 ft.
Speed	Forward: 5 kts. Reverse: 1 kts.
Battery	Battery run time: 2-3 hours Battery recharge time: 16 hours
Camera (Low Med High HD)	Signal type: USB Effective pixels: 1280 X 720p Weight: .60 lbs.
Topside Box Dimensions	Length: 8" Width: 5.875" Height: 3"
Wi-Fi Details	802.11n Operating temperature: 0° to 40°C
Cable Details	Cat 5e, Chemical Resistant
Cable Weight	1.5 lb. Per 50 ft.
Operating Voltage	10 VDC
Color	Safety Orange and Black

Topside Box

The topside box produces the Wi-Fi signal that connects to your iPad or PC/Mac. It is also used to turn the vehicle on/off and recharge the batteries inside the vehicle. The topside box is water resistant but special care should be given to keep it safely out of the water.



Setting up the Topside Box

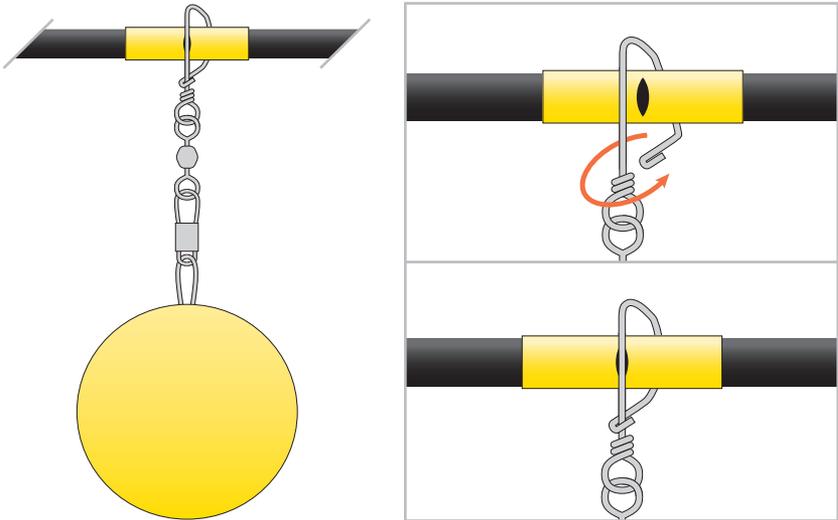
- Plug the watertight connector cable into the topside box. This is the cable that is connected to the vehicle's body.
- Turn on the power switch located on the topside box. An LED light will indicate that it's on.
- Although the vehicle has been charged before shipment, it's suggested that you charge it upon receiving to make sure you have a full battery before taking your vehicle on the water. (See next page)
- Secure the topside box with the strain relief attached to the watertight connector cable.

How to Charge Your Vehicle

1. Turn off your vehicle by pressing the off switch located on the topside box.
 2. The cable to your vehicle must remain connected to the topside box because the recharge battery pack is located in the vehicle itself.
 3. Plug the battery charger into an outlet.
 4. A light located on your charger will be solid red when charging and will be solid green when fully charged.
-

Cable Bobbers

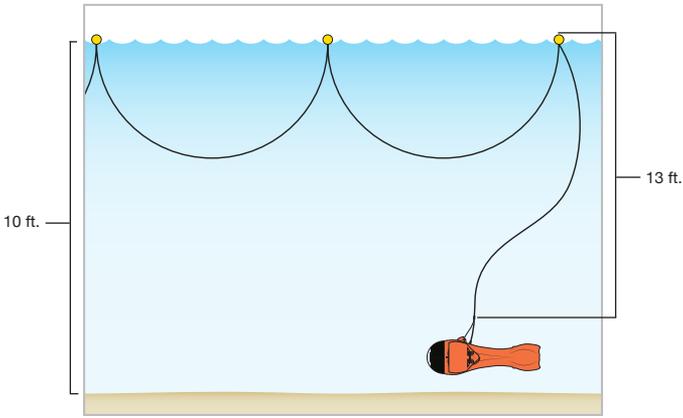
The cable bobbers are used in assisting with the cable management. They are used to keep the cable closer to the surface of water to minimize drag on the cable. The bobbers are also used to aid in navigation of the vehicle by giving the driver a sense of the vehicle's location.



Attaching Cable Bobbers

On the watertight connector cable there are yellow cable bobber attachment indicators. Pinch the end of the cable bobber, loop over the indicator and line up with the slit. Pinch again to secure.

Please use caution when attaching for sharp ends.



Placement of Cable Bobbers

To minimize vehicle drag, the cable bobbers should always be placed a few feet above your desired depth. For example, if you are planning to reach a depth of 10 ft., you would begin placing your bobbers at the first yellow indicator on the watertight connector cable past 10 ft. from the vehicle (see figure above). Then, place bobbers at the indicated locations following the first one. Likewise if you are planning a depth of 50 ft., your first bobber will be located around 55 ft. from the vehicle.

Maintenance

Propellers

1. Before and after water use: Check the left, right and back propellers for any debris caught.
 2. If debris is present, turn off vehicle before cleaning.
 3. Carefully clean out, making sure not to damage propellers.
-

After Water Care

1. Make sure the HydroView is turned OFF.
2. Completely submerge the vehicle in fresh water.
3. Remove from fresh water and stand on side to drain.
4. Wipe vehicle down, using a microfiber lens cleaning cloth.
5. Unscrew watertight connector from the topside box.
6. Safely store HydroView back in provided case.



NOTE: Make sure to rinse your vehicle thoroughly to prevent any harmful organisms from cross contaminating the waters and possibly infecting them during vehicle use.

Charging Vehicle

1. Turn off HydroView.
2. Plug the charger regulator into outlet.
3. Light will indicate if vehicle is charging (blinking red) or if vehicle is fully charged (solid green).
4. If battery is completely uncharged, it will take 16 hours to fully recharge.

Condensation

If condensation is present inside vehicle and it was within the temperature operating range of 0° Celsius/32° Fahrenheit to 35° Celsius/95° Fahrenheit, please contact your service representative for assistance.



Chapter 2

HydroView App for iPad

The HydroView App for iPad is used to control the movements and functions of your vehicle. Please take the time to carefully read through the manual before driving your vehicle.

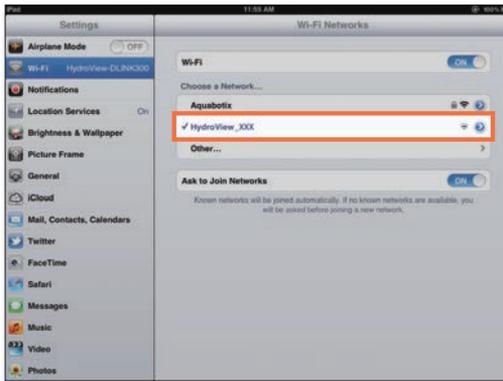
How to Download & Connect

Download only required for initial setup. To download our free application, make sure you have access to the internet. Then, follow these steps:

1. Go to our website at: <http://www.aquabotix.com/support.php> and click downloads for a link to our app or visit the iTunes Store and search for HydroView iPad Edition.
2. Click install application.
3. Sign in using your existing apple ID or create a new apple ID.
4. The application will start installing.
5. When you are ready to drive the vehicle, turn on the topside box. The vehicle's lights will turn on then shut off. Then, they will continuously blink until you open the application.
6. Click your settings icon.



7. From here, click Wi-Fi and make sure you are connected to the HydroView's network, which will end with the last 3 digits of your vehicle's serial number.



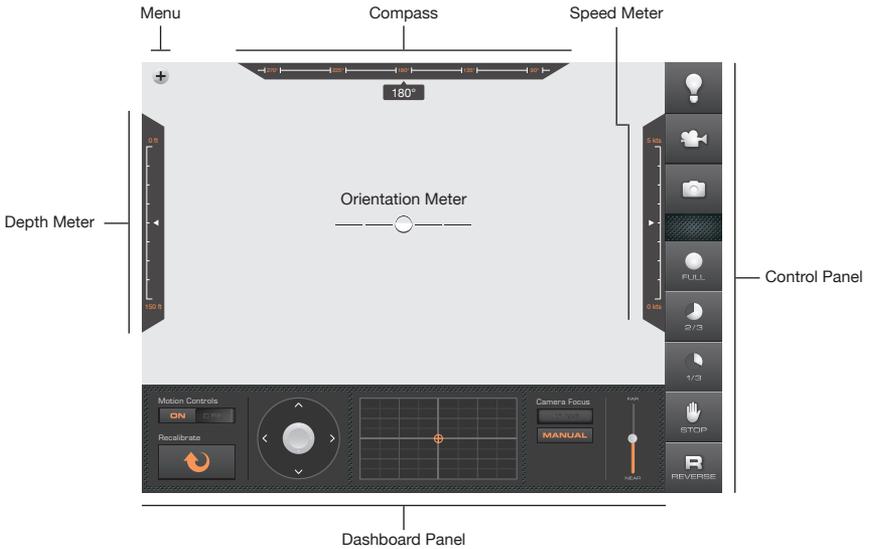
IMPORTANT: You must always choose HydroView's wireless signal as your network.

8. Return to the home screen and press the HydroView application icon. A splash screen will appear while your iPad is connecting to the vehicle.



9. Once connected, you are ready to explore the underwater world!
-

At a Glance



The Dashboard Panel, Depth Meter, Compass and Speed Meter are all upgrades available at the time of purchase. Depending on what version of the software and what upgrades you have this display may vary.

If you have any questions about upgrading your HydroView please contact Aquabotix support at support@aquabotix.com

Control Panel

The control panel is located on the right side of the HydroView for iPad application. It is used for controlling the vehicle's LED lights, movie recorder, camera, speed, stop and reverse functions.



Lights

Tap the icon to turn on the 8 LED lights in the dome of the vehicle. The icon will turn yellow if the lights are on. You can adjust the brightness of the LED lights in the settings menu.



Movie Recorder

Tap the icon to start recording. The icon will turn blink red when you are recording. Tap the icon again to stop your recording. Your videos will be stored on the HydroView. Use the Media Manager (pg __) when you are ready to select which videos you would like to download from the vehicle to your iPad.



Camera

Tap the icon to take a photo and the screen will flash. Your photos will be stored on the HydroView. Use the Media Manager (pg __) when you are ready to select which photos you would like to download from the vehicle to your iPad.



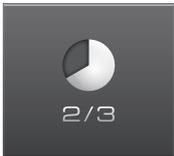
Timer

Set up the camera to take pictures at an interval you specify. It's a hassle free way to take photos - and allows you to focus on setting up the perfect shot. You can control the timer in the settings menu (pg __).



Speed / Forward Thrust

There are three options for speed. 1/3 power (about __ knots), 2/3 power (about __ knots) and full power (5 knots). When you select one of these speeds the vehicle's two forward facing motors will propell itself forward. You do not need to hold down the any of these buttons to keep moving forward. Once selected the vehicle will remain on that speed untill you choose another speed. To stop the vehicle press the "STOP" button.



Stop

Selecting this button it will stop any of the vehicle's forward or reverse motions. You can still turn, dive, or rise with the joystick (pg __) or motion controls (pg __). Once selected the vehicle will remain stopped untill you choose another speed or reverse.



Lock (Double Tap)

When you double tap the "STOP" button it will switch to the "LOCK" feature. The lock feature will stop all vehicle movement as apposed to the "STOP" feature which only stops forward and reverse movement. The "LOCK" feature is essential for motion control.



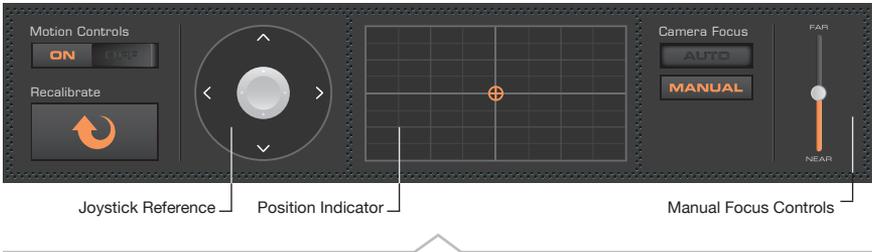
Reverse

When you select this button the vehicle's two forward facing motors will propell itself in reverse at 1/3 power (about __ knots). Once selected the vehicle will remain in reverse untill you choose another speed or press the "STOP" button. To stop the vehicle press the "STOP" button.

For an instructional video on how to drive, please visit www.aquabotix.com

Dashboard Panel

The dashboard panel is located on the bottom of the HydroView for iPad application. It is used for switching to motion controls, adjusting the camera focus, and it gives location readings.



Motion Controls

On the left of the dashboard easily switch between motion controls and joystick controls by pressing the On/Off switch. When motion controls are on the “recalibrate” button and the dashboard joystick will activate. The recalibrate button is used for changing the way your iPad reads your motioning, you can recalibrate it to match the angle you hold it at. The joystick is stationary and will not control the motions of the vehicle. It is instead used for reference when tilting your iPad during motion control.

Position Indicator

The position indicator is the large grid at the center of the dashboard. The position indicator displays an approximation of where your vehicle is relative to you (the center point). When the vehicle is moving, you’ll see a small orange dot appear. This dot will move with the vehicle, and makes it easy to determine the location of your HydroView in low visibility conditions.

Camera Focus

On the right of the dashboard there are camera focus controls. When “auto” is selected the HydroView’s camera will focus on objects automatically. Auto focus is best used when driving around and exploring to free your hands up for navigating underwater. When “manual” focus is chosen the scroll bar to the right will become activated. Adjust the bar to focus on objects that are “far” or “near” to the vehicle. Manual focus is best used when you have stopped the vehicle and want to focus in on a specific object. This way you can adjust the focus perfectly before snapping a photo or recording a video.

Joystick Controls

To use the joystick controls simply touch and hold your finger down on the iPad's screen wherever is most comfortable for you. Move your finger left to turn left, right to turn right, down to dive and up to rise (see figure above). The joystick will disappear as soon as you lift your finger. The joystick feature will be disabled when you switch to motion control on the dashboard (see pg __). You can invert the steering in the settings menu (see pg __).



Turn Left



Turn Right



Dive



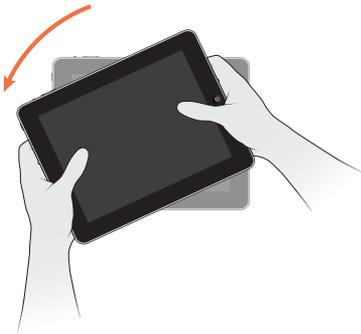
Rise

Motion Controls

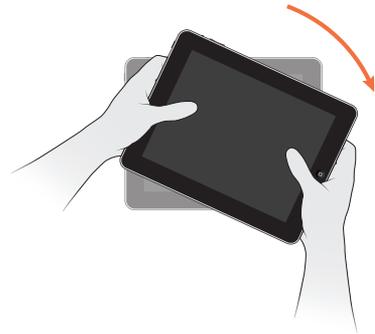
To use the motion controls feature you will need to turn it on from the dashboard. The joystick controls will be disabled when you turn the motion controls on and a stationary non-functioning joystick in the dashboard will appear for reference.

When driving the HydroView, make sure to test up, down, left and right before driving a good distance away from you. Make sure you are use to the controls. Tilt the iPad to the left to turn left, right to turn right, down to dive and up to rise (see figure above). The motion controls feature will be disabled when you switch it to "OFF" on the dashboard (see pg __) or press the "LOCK" button. You can invert the steering in the settings menu (see pg __).

The "LOCK" feature is essential for the motion controls (pg __). Selecting the "STOP" button will only stop any forward or reverse motions. The left, right and rise functions will still operate. The "LOCK" feature allows you to stop any forward or reverse motions along with the left, right, dive and rise functions as well.



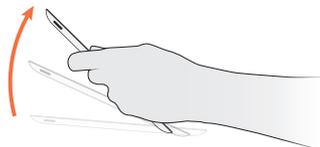
Turn Left



Turn Right



Dive

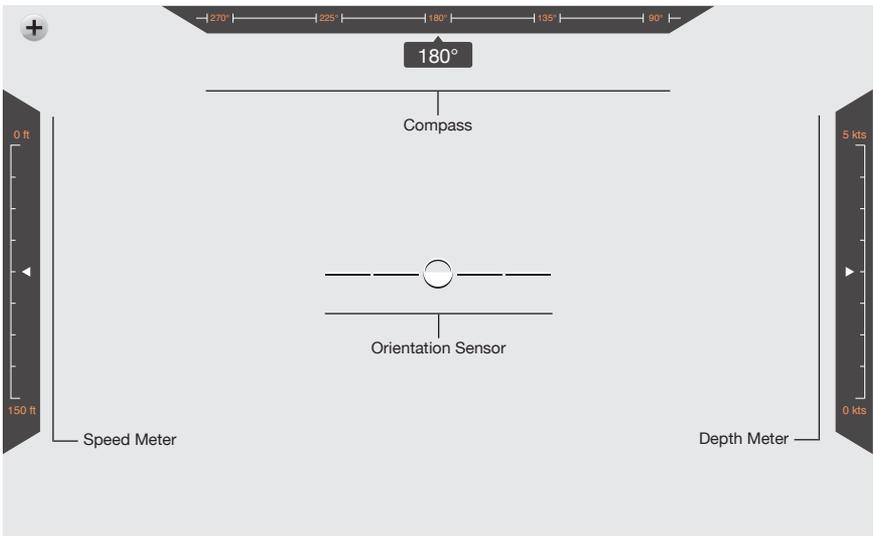


Rise

Heads Up Display (HUD)

Available only when upgraded for version 5.3 or greater.

The HUD makes it easy to know where your HydroView is and what it's doing, even outside of visual range. The HUD tracks compass heading, pitch, roll, depth, speed, and vehicle position. HUD components (such as the pitch indicator, depth and speed gauges) can be turned on or off depending on what you want to see. The settings for the HUD can be found in the app settings menu. On startup, the app will automatically detect the sensors in your vehicle and display the appropriate components of the HUD.



Depth Meter

If your vehicle is equipped with a depth sensor, the depth meter will display the current depth of your vehicle (in feet). Please remember that the HydroView is not rated below 150 feet. We encourage you to exercise caution at depths greater than 150 feet.

Compass

If your vehicle is equipped with the Inertial Navigation System (INS) the compass indicator will display the current compass heading for your vehicle.

Depth Meter

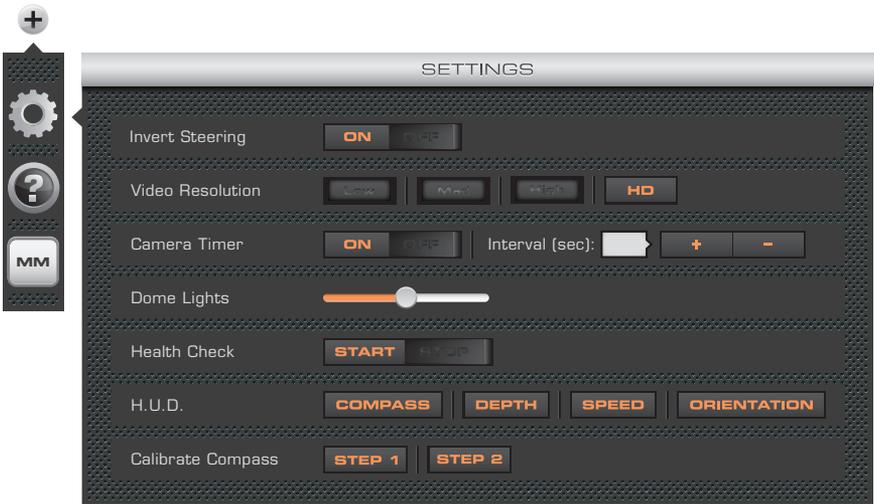
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Compass

If your vehicle is equipped with the Inertial Navigation System (INS) the compass indicator will display the current compass heading for your vehicle.

Settings Menu

The setting menu is where you can adjust the settings for some of the features on the HydroView App. To access the settings menu press the expand icon in the upper left of the application screen to open the menu toolbar. Press the gear/settings icon to open the settings menu.



Invert Steering

To “invert” means to go in the opposite direction. Therefore, you can either dive by motioning or pressing up or invert it to dive by motioning or pressing down. The left and right motions will not be inverted.

Video Resolution

Adjusting video resolution is helpful in situations where speed and quality of video may be of different priority. HD video delivers the highest quality images at a slightly slower than live speed. High, medium, and low resolutions deliver images of a lesser quality at a faster speed. Resolution in order of highest to lowest quality, and slowest to fastest speed: HD, High, Medium, Low.

Camera Timer

Set up the camera to take pictures at an interval you specify. First, turn on the camera timer. Then, press the plus (+) button to add the time you would like between shots and press the minus (-) button to take away time. When the camera timer is on you will notice a small stopwatch next to the camera icon.

Dome Lights

Toggle the brightness with the slider. Slide the ball to the left to dim the headlights on the front of the vehicle and slide the ball to the right to increase the brightness.

Health Check

The vehicle health check helps you verify that the mechanical components of the vehicle are functioning properly. To begin the health check place your vehicle in open water, open the settings menu and find the Health Check section. Then, press the Start button. Your vehicle will begin to swim around in different directions to test the mechanical components. The lights will also flash. To stop the health check at any time press the stop button on the right side of the screen. When the health check is complete, a dialog box will appear to let you know. Please exercise caution when using the health check, as the propellers will be on.



IMPORTANT: Before starting the health check, make sure you are a safe distance away from the HydroView.

Heads Up Display (H.U.D)

On startup, the app will automatically detect the sensors in your vehicle and display the appropriate components of the HUD. If you'd like to turn off a HUD component, open the settings menu and find the section titled H.U.D. Components that are currently displayed will be labeled in orange. You can turn off a component by tapping its corresponding orange colored button. An HUD component is off when the label switches from orange to light gray. Close the settings menu and you should now see your changes reflected in the HUD.

If you'd like to turn on an HUD component, open the settings menu and find the section titled HUD. If an HUD component is disabled, it will be colored gray. To enable an HUD component, tap its corresponding button. The button will turn orange to show the component is now enabled.

Calibrate Compass

If your unit is equipped with an INS system it is recommended that you calibrate the compass once a month to ensure that your sensors are operating with the highest possible accuracy. To begin calibration, connect to your HydroView. From the app open the settings menu, and find the section titled Calibrate Compass. Calibration is a two step process, and the steps are clearly labeled as buttons marked Step one and Step two. Press step one, and follow the prompts. After step one is complete, proceed to step two. Press the button marked step two, and follow the prompts. After you've completed step 2, your vehicle has been calibrated completely and is ready to drive.



Help Guide

Press the expand icon in the upper left of the application screen to open the menu toolbar. Press the question mark icon (?) to open the help guide. This will launch this HydroView Manual to help answer any questions you may have while operating the vehicle.



Media Manager Shortcut

Press the expand icon in the upper left of the application screen to open the menu toolbar. Press the (MM) icon to open the Media Manager. This will launch the Media Manager app.



Chapter 3

HydroView App for PC/Mac

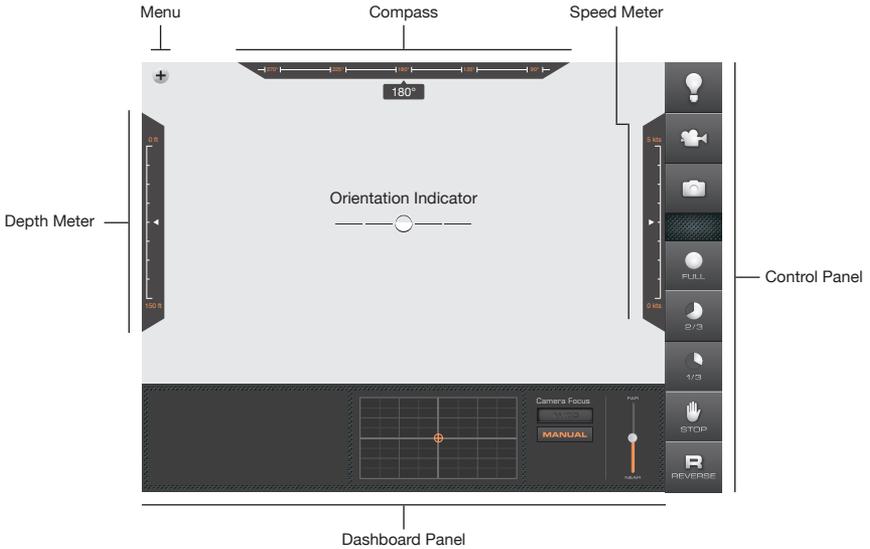
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How to Download & Connect

Download only required for initial setup. To download our free application, make sure you have access to the internet. Then, follow these steps:

1. Visit www.aquabotix.com/support.php and click on “downloads”.
 2. Click on “Install HydroView Application for PC”.
 3. After the application has finished downloading, select a save location if you don’t previously have a default download folder.
 4. Unzip the folder into your desired location.
 5. When you are ready to drive the vehicle, turn on the topside box. The vehicle’s lights will turn on then shut off. Then, they will continuously blink until you open the application. On your PC open your wireless networks and choose HydroView’s network, which will end with the last 3 digits of your vehicle’s serial number.
 6. Open the application by double clicking the HydroView icon in the folder you saved it to. A splash screen will appear while your iPad is connecting to the vehicle.
 7. Once connected, you are ready to explore the underwater world!
-

At a Glance



The Dashboard Panel, Depth Meter, Compass and Speed Meter are all upgrades available at the time of purchase. Depending on what version of the software and what upgrades you have this display may vary.

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Movie Recorder

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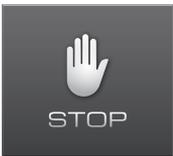
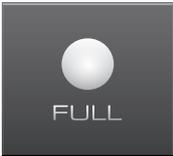
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Stop

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Lock (Double Tap)

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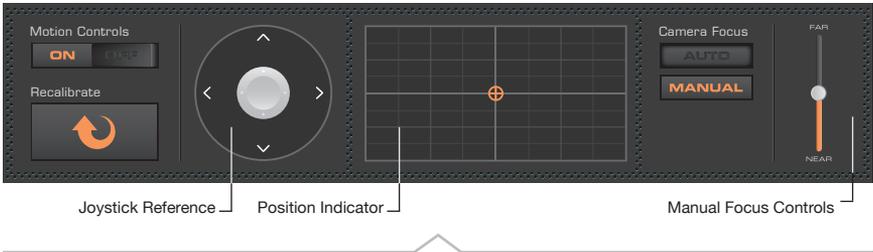


Reverse

When you select this button the vehicle's two forward facing motors will propell itself in reverse at 1/3 power (about __ knots). Once selected the vehicle will remain in reverse untill you choose another speed or press the "STOP" button. To stop the vehicle press the "STOP" button.

Dashboard Panel

The dashboard panel is located on the bottom of the HydroView for iPad application. It is used for switching to motion controls, adjusting the camera focus, and it gives location readings.



Motion Controls

On the left of the dashboard easily switch between motion controls and joystick controls by pressing the On/Off switch. When motion controls are on the “recalibrate” button and the dashboard joystick will activate. The recalibrate button is used for changing the way your iPad reads your motioning, you can recalibrate it to match the angle you hold it at. The joystick is stationary and will not control the motions of the vehicle. It is instead used for reference when tilting your iPad during motion control.

Position Indicator

The position indicator is the large grid at the center of the dashboard. The position indicator displays an approximation of where your vehicle is relative to you (the center point). When the vehicle is moving, you’ll see a small orange dot appear. This dot will move with the vehicle, and makes it easy to determine the location of your HydroView in low visibility conditions.

Camera Focus

On the right of the dashboard there are camera focus controls. When “auto” is selected the HydroView’s camera will focus on objects automatically. Auto focus is best used when driving around and exploring to free your hands up for navigating underwater. When “manual” focus is chosen the scroll bar to the right will become activated. Adjust the bar to focus on objects that are “far” or “near” to the vehicle. Manual focus is best used when you have stopped the vehicle and want to focus in on a specific object. This way you can adjust the focus perfectly before snapping a photo or recording a video.

Keyboard Controls

To use the keyboard controls it is recommended that you go to the configuration settings first to familiarize yourself with the settings (p __). The configuration settings have default settings and you can customize them to what you find most comfortable when driving your Hydroview.



Brightness

The default settings for controlling the brightness of the headlights of the vehicle is the one (1) key for increase and the two (2) key for decrease.

Thrust

The default settings for controlling the forward thrust of the vehicle is the (A) key for increase and the (S) key for decrease.

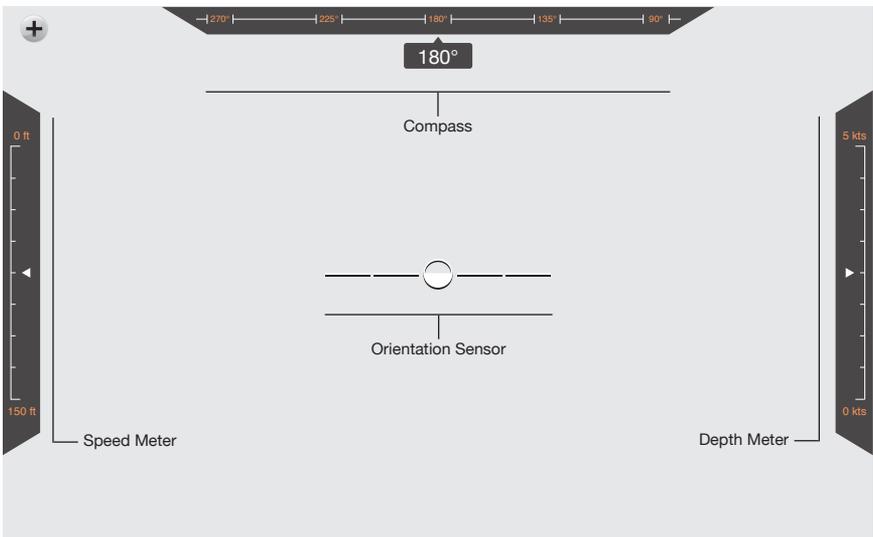
Pitch / Turn

The default settings for turning the vehicle left is the left direction key. To turn right press the right direction key. To rise press the up direction key. To dive press the down direction key.

Heads Up Display (HUD)

Available only when upgraded for version 5.3 or greater.

The HUD makes it easy to know where your HydroView is and what it's doing, even outside of visual range. The HUD tracks compass heading, pitch, roll, depth, speed, and vehicle position. HUD components (such as the pitch indicator, depth and speed gauges) can be turned on or off depending on what you want to see. The settings for the HUD can be found in the app settings menu. On startup, the app will automatically detect the sensors in your vehicle and display the appropriate components of the HUD.



Depth Meter

If your vehicle is equipped with a depth sensor, the depth meter will display the current depth of your vehicle (in feet). Please remember that the HydroView is not rated below 150 feet. We encourage you to exercise caution at depths greater than 150 feet.

Compass

If your vehicle is equipped with the Inertial Navigation System (INS) the compass indicator will display the current compass heading for your vehicle.

Depth Meter

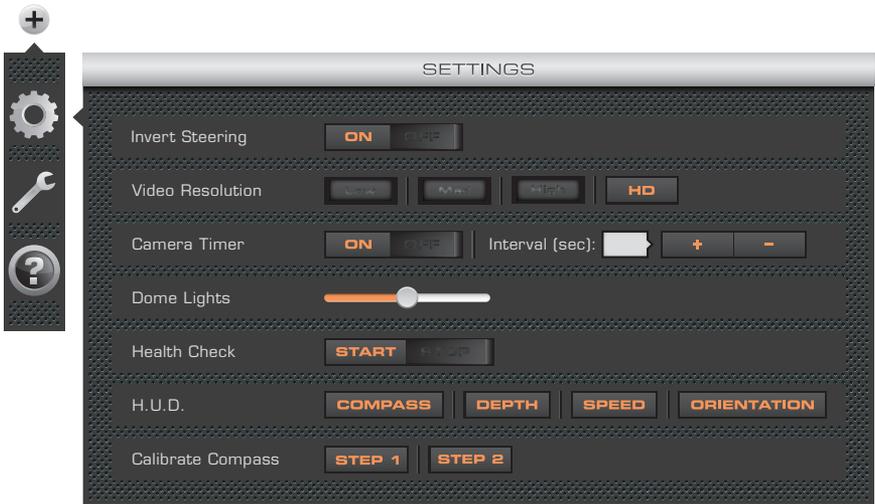
If your vehicle is equipped with a depth sensor, the depth meter will display the current depth of your vehicle (in feet). Please remember that the HydroView is not rated below 150 feet. We encourage you to exercise caution at depths greater than 150 feet.

Compass

If your vehicle is equipped with the Inertial Navigation System (INS) the compass indicator will display the current compass heading for your vehicle.

Settings Menu

The setting menu is where you can adjust the settings for some of the features on the HydroView App. To access the settings menu press the expand icon in the upper left of the application screen to open the menu toolbar. Press the gear/settings icon to open the settings menu.



Invert Steering

To “invert” means to go in the opposite direction. Therefore, you can either dive by motioning or pressing up or invert it to dive by motioning or pressing down. The left and right motions will not be inverted.

Video Resolution

Adjusting video resolution is helpful in situations where speed and quality of video may be of different priority. HD video delivers the highest quality images at a slightly slower than live speed. High, medium, and low resolutions deliver images of a lesser quality at a faster speed. Resolution in order of highest to lowest quality, and slowest to fastest speed: HD, High, Medium, Low.

Camera Timer

Set up the camera to take pictures at an interval you specify. First, turn on the camera timer. Then, press the plus (+) button to add the time you would like between shots and press the minus (-) button to take away time. When the camera timer is on you will notice a small stopwatch next to the camera icon.

Dome Lights

Toggle the brightness with the slider. Slide the ball to the left to dim the headlights on the front of the vehicle and slide the ball to the right to increase the brightness.

Health Check

The vehicle health check helps you verify that the mechanical components of the vehicle are functioning properly. To begin the health check place your vehicle in open water, open the settings menu and find the Health Check section. Then, press the Start button. Your vehicle will begin to swim around in different directions to test the mechanical components. The lights will also flash. To stop the health check at any time press the stop button on the right side of the screen. When the health check is complete, a dialog box will appear to let you know. Please exercise caution when using the health check, as the propellers will be on.



IMPORTANT: Before starting the health check, make sure you are a safe distance away from the HydroView.

Heads Up Display (H.U.D)

On startup, the app will automatically detect the sensors in your vehicle and display the appropriate components of the HUD. If you'd like to turn off a HUD component, open the settings menu and find the section titled H.U.D. Components that are currently displayed will be labeled in orange. You can turn off a component by tapping its corresponding orange colored button. An HUD component is off when the label switches from orange to light gray. Close the settings menu and you should now see your changes reflected in the HUD.

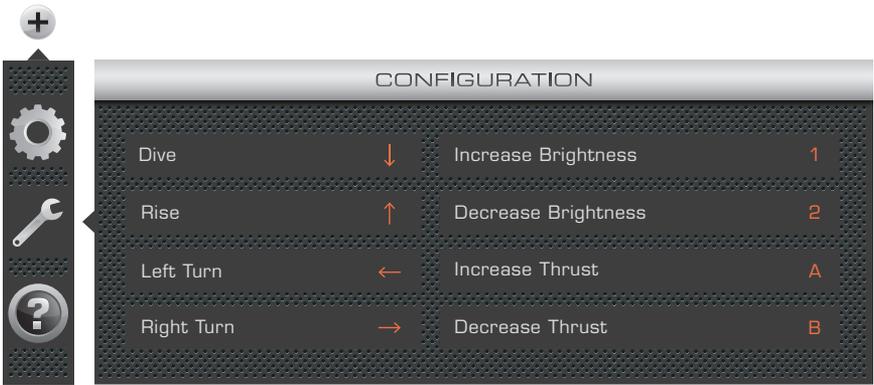
If you'd like to turn on an HUD component, open the settings menu and find the section titled HUD. If an HUD component is disabled, it will be colored gray. To enable an HUD component, tap its corresponding button. The button will turn orange to show the component is now enabled.

Calibrate Compass

If your unit is equipped with an INS system it is recommended that you calibrate the compass once a month to ensure that your sensors are operating with the highest possible accuracy. To begin calibration, connect to your HydroView. From the app open the settings menu, and find the section titled Calibrate Compass. Calibration is a two step process, and the steps are clearly labeled as buttons marked Step one and Step two. Press step one, and follow the prompts. After step one is complete, proceed to step two. Press the button marked step two, and follow the prompts. After you've completed step 2, your vehicle has been calibrated completely and is ready to drive.

Configuration Settings

The configuration settings is where you can adjust the settings for the keyboard controls to drive the HydroView. To access the configuration settings press the expand icon in the upper left of the application screen to open the menu toolbar. Press the wrench/configuration icon to open the configuration settings menu.



How to change the configuration settings

Press the expand icon (+) in the upper left of the application screen to open the menu toolbar. Press the wrench icon to open the configuration settings. These settings will come with default presets for driving and light control. To change these presets, click on the default preset and enter a key you want to configure the setting with.



Help Guide

Press the expand icon in the upper left of the application screen to open the menu toolbar. Press question mark icon (?) to open the help guide. This will launch this HydroView Manual to help answer any questions you may have while operating the vehicle.



Chapter 4

Media Manager App for iPad

The Media Manager allows users to view, delete and save their photos and videos from HydroView to their iPad. The media manager is needed to save the files stored remotely on the HydroView to your device so you can watch and share them without the hassle of being connected to the HydroView.

How to Download

Download only required for initial setup. To download our free application, make sure you have access to the internet. Then, follow these steps:

1. Go to our website at: <http://www.aquabotix.com/support.php> and click downloads for a link to our app or visit the iTunes Store and search for HydroView iPad Edition.
 2. Click install application.
 3. Sign in using your existing apple ID or create a new apple ID.
 4. The application will start installing.
-

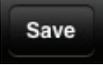
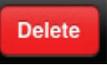
Saving Photos and Videos to Your iPad

Make sure that your HydroView is powered on. Once the Media Manager app has been downloaded, double check that the iPad is on the HydroView's wireless network, and open it. The photos and videos should be visible. You can toggle between your photos and videos using the buttons appropriately labeled at the bottom of the app.

Next, press the "Select Multiple" button in the upper left.

A dark grey rectangular button with rounded corners and a subtle gradient, containing the text "Select Multiple" in white.

Then, select any photos or videos that you would like to save by simple touching the photo or video in the library. In the lower left you can either choose to download your selections onto your iPad or delete them off of your vehicle.

A dark grey rectangular button with rounded corners and a subtle gradient, containing the text "Save" in white.A red rectangular button with rounded corners and a subtle gradient, containing the text "Delete" in white.

Once your selections have finished downloading to your iPad go to the Photos app to view them.



How do I get my photos and videos off the iPad?

Photos and videos saved to the iPad can then be saved to a computer by using iPhoto (for a Mac) or by plugging in the iPad and selecting 'Import Pictures and Videos' from the pop up (for Windows).



Chapter 5

Media Manager App for PC/Mac

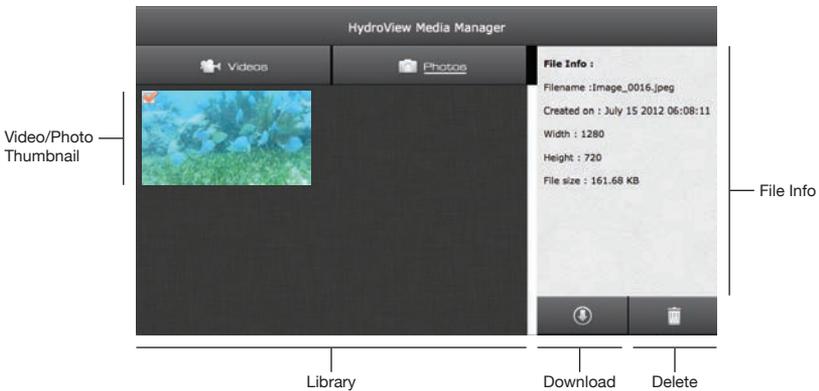
The Media Manager allows users to view, delete and save their photos and videos from HydroView to their PC/Mac. The media manager is needed to save the files stored remotely on the HydroView to your device so you can watch and share them without the hassle of being connected to the HydroView.

How to Access

There is no download required to use the Media Manager App for PC/Mac, instead you can access it via web browser. To access our free application, make sure you have access to one of the major web browsers (Internet Explorer, Google Chrome, Firefox or Safari). Then, follow these steps:

1. Turn on your HydroView and connect to it's Wi-Fi network using your computers built in Wi-Fi connection.
2. Open your web browser and in your address bar type:
`http://192.168.2.170`

At a Glance



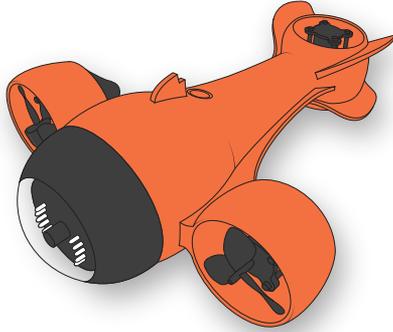
Downloading Photos and Videos

Once you have accessed the Media Manager App for PC/Mac the photos and videos should be visible. You can toggle between your photos and videos using the buttons appropriately labeled at the top of the app.

Select any photos or videos that you would like to save by simple clicking the photo or video thumbnail in the library. You can only select one photo or video at a time. An orange check mark will appear in the upper left corner of your selection. The file info for your selection will appear in the column on the right.



In the lower right below the file info you can either choose to download your selection or delete it off of your vehicle.



Chapter 6

HydroView Upgrades

If you are looking to get more out of your vehicle Aquabotix has developed 9 new upgrades for you too mix and match to better suit your underwater endeavors.

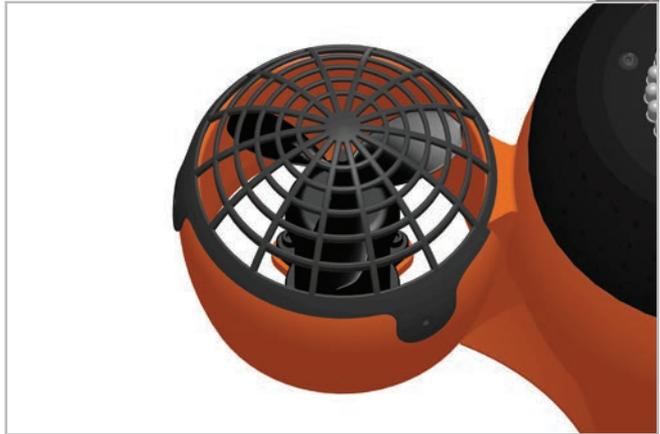
9 New Upgrades

From propeller covers to landing gear, the HydroView Sport has 9 new upgrades available for your personal remote controlled underwater vehicle. Take your underwater experience to the next level!



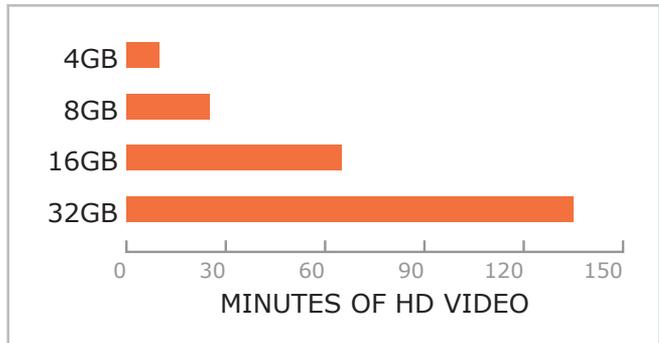
Propeller Covers

Three propeller covers that protect both side propellers as well as the rear propeller. These covers help keep debris out of the motor housing. It is also an added safety precaution.



Memory Card

Memory for photo and video storage is available in 4, 8, 16 or 32GB.



**Orientation Sensor**

The HydroView orientation sensor provides readings on yaw/pitch/roll and heading relative to true north. This sensor helps aid with navigation of the vehicle giving you a better understanding of how the vehicle is swimming under the water. It is extremely useful in poor water quality situations.

**Topside Box with LAN and Wi-Fi Connections**

This topside box increases connection speed between your laptop and HydroView Sport by hard wiring your computer directly to the topside box, giving data transfer speeds of up to 100Mb per second. The Wi-Fi can also be configured to normal, access point or off.

**Topside Box with Continuous Power Supply (12V)**

This topside box is used to give your vehicle continuous power instead of battery power. This enables the HydroView to be run for as long as you need it without worrying about loss of power. The box includes a 12V auto plug adapter that is used to plug into a 12V socket. Please note: There is no battery with this configuration so you will need 12V power to run the vehicle.

**Temperature Sensor**

The HydroView temperature sensor provides readings on the temperature of the water. The sensor measures from 0°C (32°F) to 70°C (158°F).

**Extended Cable Lengths**

Need more room to explore the underwater world? Use these extensions! Available in cable lengths of 150 or 200 feet.

**Depth Sensor**

The HydroView depth sensor provides readings on the depth of your HydroView up to 150 ft. deep. This reading can be used to drive the HydroView to the exact depth needed to view something important. Also, when you find something underwater, it is helpful to know the depth of the object to help you find it again.

**Passive Buoyancy Management / Landing Gear**

Manual passive buoyancy management for vehicles allows users to add weights to their vehicle. These weights affect the buoyancy of the vehicle so that it can be fine tuned to the exact salinity of the water. This is extremely useful for vehicles that will be used in both salt and fresh water. In addition, the landing gear allows the vehicle to land on a more stable surface that points the vehicle slightly upward for better video viewing.



CEO Guarantee

Here at Aquabotix, our customers come first. If you are not completely satisfied with your Aquabotix product or service, please contact me at ceo@aquabotix.com or by calling 508.676.1000.

Thank you,
President and CEO
Durval Tavares

FAQ's (Frequently Asked Questions)

What do I do if the vehicle's battery dies while in the water?

If this occurs, pull your vehicle to the surface using its cable.

What do I do if the Wi-Fi isn't showing up on the iPad settings?

Turn off the topside box and turn back on. Try to locate the Wi-Fi on your iPad. If still not showing up after a few times of trying, contact Aquabotix.

How do I know my vehicle is ready to connect to the Wi-Fi?

The HydroView's LED lights will turn on then shut off. Then, they will continuously blink until you open the application. If the lights start off as dim and then proceed to continuously get brighter, please contact aquabotix by calling (508) 676-1000 or email us at info@aquabotix.com.

What do I do if my cord gets tangled?

Cable bobbers should assist with letting you see when your cord does get tangled. In the chance that it does, retrace your vehicles path to untangle. If that doesn't work, pull it out of the water and untangle.

How do I get my HydroView out of the water?

Grab the watertight connector cable and pull the vehicle up. This cable is strong and won't detach from the vehicle.

Where do my photos and videos get stored after I record them?

iPad: Photos get stored into your photo album on the home screen. Videos get stored on the media manager application, which you can then download to your video album on your iPad.

PC: Videos and images get stored onto the media manager application. From there, you can download the videos to watch or images to view.

How long does my vehicle run for?

Your vehicle will run for about 2-3 hours, depending upon your speed during use.

What are the system requirements for my iPad or PC?

iPad: iOS 4.0 or later or can use iPad 2.

PC: Windows, Mac, or Linux machine with wireless networking capabilities and latest version of Java.

How do I download the application?

iPad: Go to the iTunes store and search for the HydroView iPad Edition or visit our website at www.aquabotix.com/support.php.

PC: Go to www.aquabotix.com/support.php and click on downloads. The instructions will be located there.

What do I do if I get a scratch on the dome of the vehicle?

The products lenses are made of acrylic. If there are some scratches present, acrylic polish can remove them. If your lens is cracked, we have replacement lenses for purchase. When storing your lens, remember to use a cloth or some form of cover to avoid scratching.

What do I do if the application is stuck on the splash screen (below)?

Exit out of the application and turn off the topside box. Turn the topside box back on and open the application. If this doesn't work, contact Aquabotix.





Leak Warning

In the unfortunate event that your HydroView leaks, this icon will start flashing on your screen. Remove your vehicle out of the water immediately. Contact support at www.aquabotix.com/support/php for assistance or call our office at (508) 676-1000.

Application Failure

In the unfortunate event that your HydroView leaks, this icon will start flashing on your screen. Remove your vehicle out of the water immediately. Contact support at www.aquabotix.com/support/php for assistance or call our office at (508) 676-1000.

HydroView One Year Limited Warranty Certificate

Aquabotix warrants that, under normal use and service, the HydroView will be free from defects in material and workmanship for one year from the date of purchase by the original purchaser.

If Aquabotix receives, during the applicable warranty period, notice of defect in any product which is covered by Aquabotix's warranty, Aquabotix shall either replace or repair the product at Aquabotix's discretion.

If Aquabotix is unable to repair or replace, as applicable, a defective product which is covered by Aquabotix's warranty, Aquabotix shall, within a reasonable time after being notified about the defect, refund the full purchase price of the product.

Aquabotix shall have no obligation to repair, replace or refund the purchase or product until the customer submits an RMA form and returns the defective product to Aquabotix.

Warranty does not cover the following: accidental damage, damage caused by abuse or misuse, damage caused by vehicle depths greater than vehicle rating, damage caused to other vehicles, ships, people etc. due to accidental or purposeful driving, damage caused to topside box and battery charger from submerging in water, damage to iPad, iPhone, Android device or computer, cable damage from normal use or cutting, improper maintenance, incorrect assembly, or damage due to incorrect power connection as described in the user manual.

Consumable items including LED lights and batteries are specifically excluded from the warranty. Items subject to normal wear and tear include, but are not limited to, the lens and the outer shell which are only covered for defects in workmanship or materials.

Opening the vehicle's dome automatically voids this warranty.

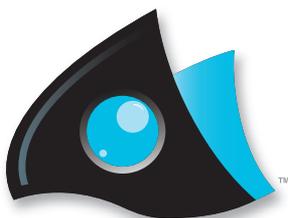
Claims for damage, shortage or errors in shipping must be reported within three (3) days following delivery to the customer. Aquabotix is not responsible for returned items lost or damaged during shipping.

A copy of the dated receipt or bill of sale from the original end user purchase is required to determine coverage.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This model of the Hydroview is intended for personal and recreational use only. Aquabotix offers a separate commercial-grade PRO model of the Hydroview for use in commercial applications. The use of this model for commercial applications will void this limited warranty.

For further information contact Aquabotix at:
returns@aquabotix.com
508.676.1000



AQUABOTIX™

Innovation for the Underwater World

Aquabotix Technology Corporation

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Fall River, MA 02720

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