

HAMMERHEAD



Vision System

ASSEMBLY INSTRUCTIONS

for OTS masks:

OTS Stealth Full Face Mask

OTS Guardian Full Face Mask



Hammerhead Vision System Assembly Manual

Dear customer,

Thank you for purchasing the Hammerhead Vision System by Darkwater Vision, LLC. This assembly manual will guide you through the process of attaching the vision system to the full-face OTS masks.

For installation of the Hammerhead Vision System on other masks, please visit our user support section at:

www.darkwatervision.com/support/manuals

For any issues or concerns, please contact us using any of the methods below.

Thank you, and safe diving!

Darkwater Vision, LLC

Contact Information

Please contact us via any of the following methods and we'll be happy to hear your feedback or answer any questions you may have.

Support	support@darkwatervision.com
Sales	sales@darkwatervision.com
Phone	+1 727-400-4145

Contents

1.	Technical Specifications	4
1.1	General product specifications	4
2.	Precautions and Safety Instructions	5
3.	Assembling the Hammerhead	6
3.1	General Instructions	6
3.2	Included Parts for OTS Mask Installation	6
3.3	Application of Bonding Tape	7
3.4	Attaching the Mask Brackets	8
3.5	Assembling the Vision System Brackets	9
3.6	Attaching the Vision System to the OTS Mask	10
3.7	Attaching the UVAS Light to the Vision System	11
3.8	Connecting the Power to the Vision System	12
3.8	Connecting Power Cables to the Battery	13
4.	Final Assembly	14
5.	Warranty Registration	15

1. Technical Specifications

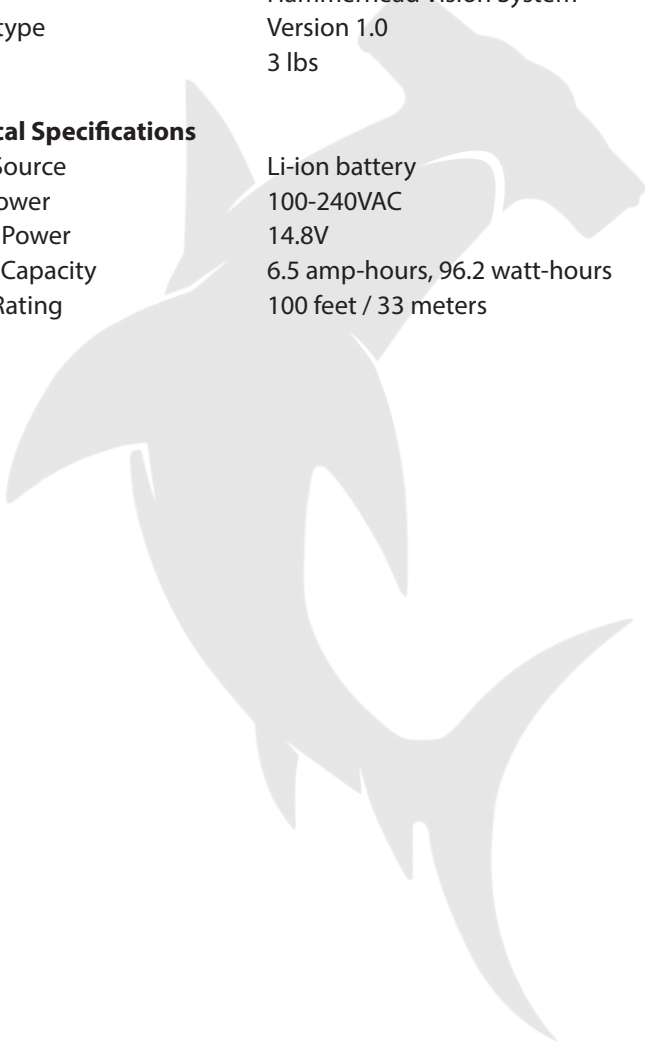
1.1 General product specifications

Product Description

Name	Hammerhead Vision System
Model/type	Version 1.0
Weight	3 lbs

Technical Specifications

Power Source	Li-ion battery
Input Power	100-240VAC
Output Power	14.8V
Battery Capacity	6.5 amp-hours, 96.2 watt-hours
Depth Rating	100 feet / 33 meters



2. Precautions and Safety Instructions

Please use standard diving precautions when diving with the Hammerhead Vision System.



All water-tight caps and plugs must be installed prior to submersion



Do not use if signs of visual damage are evident



Do not use if signs of electrical damage are evident



Only use battery and charger parts from original manufacturer



Do not exceed max depth rating

3. Assembling the Hammerhead

3.1 General Instructions

The vision module is installed on the OTS mask with 3M VHB heavy-duty double sided bonding tape, 1.25"W x 0.090" Thick, part number 4991.

The mask side wall surfaces must be clean, dry and free of other adhesives or loose particulate. The adhesive surfaces do not need to be sanded or primed or prepared other than washing with a mild detergent and drying completely.

3.2 Included Parts for OTS Mask Installation



3.3 Application of Bonding Tape

Place the adhesive tape on the left side of the mask with the RED side facing out (see Figure 2a). Do the same thing for the right side of the mask, under the knob (see Figure 2b).

For additional detail on the tape, there are published instructions for use on the 3M website.



Figure 2a



Figure 2b



Please do not attempt to remove the tape after it has been applied. Bonding tape is a heavy duty adhesive and requires specific instructions for proper removal. Contact our customer service for more details.

3.4 Attaching the Mask Brackets

On the left side, peel off the red plastic from the tape. Place the LEFT ADHESIVE BRACKET on adhesive (Figure 3a) and press firmly. Do not attempt to re-position once installed. If removal is required, new adhesive is required.

Repeat on the right side (Figure 3b)



Figure 3a



Figure 3b



Figure 3c



It is recommended that the tape be left for 12-24 hours before moving on to the next step (3.5). This is to allow the tape to fully bond to the mask and the mounting brackets.

3.5 Assembling the Vision System Brackets

Attach the left attachment bracket to the vision system using two nylon screws as shown in Figures 4a-4b.

Repeat this step for the right attachment bracket (Figures 4c-4d).



Figure 4a



Figure 4b



Figure 4c



Figure 4d

3.6 Attaching the Vision System to the OTS Mask

Assembly is slipped into place on mask and fastened by two (2) nylon screws on left and right sides (figures 5a and 5b). Attach loosely for calibration in upcoming steps.



Figure 5a



Figure 5b



Figure 5c



Figure 5d

3.7 Attaching the UVAS Light to the Vision System

Screw the 1" ball mount into the middle hole on the left bracket (Figure 6a-b).

Attach the diffuser to the light.

Mount the light to the 1" ball mount using the adapter (Figure 6c).



Figure 6a



Figure 6b



Figure 6c

3.8 Connecting the Power to the Vision System

The Vision System power cable is plugged into the left side of the housing (displayed in Figure 7a).

Insert cable end (Figure 7b) into power plug and turn clockwise to tighten; counter-clockwise to loosen (Figures 7c-d).

NOTE : The Vision System power cable is identified as having a rotating threaded collet on both ends of the cable. One end is installed to the UVAS housing and the other end is installed to any one of the battery canister connectors. The UVAS light power cable is covered in the next step.



Figure 7a



Figure 7b



Figure 7c



Figure 7d

3.8 Connecting Power Cables to the Battery

Connect the Vision System power cable to the battery. Insert the other end of the vision system power cable (Figure 8a) into battery power plug (Figure 8b) and gently press together then clockwise to tighten; counter-clockwise to loosen.

Repeat for the light power cable (Figure 8c).



Please ensure all battery connectors are enclosed by either power cables or waterproof caps prior to use.



Figure 8a



Figure 8b



Figure 8c

4. Final Assembly

Before use, please ensure the following:

- The brackets are attached securely to the mask
- The light head is pointed forward in the direction of the vision system
- The vision system power cable is attached securely to the input port
- Both power cables are secured to the battery
- The remaining battery connectors (two un-used connectors) are secured by caps



5. Warranty Registration

In order to receive the best service and support, please register your product with Darkwater Vision using one of the two methods below.

1. E-mail warranty@darkwatervision.com
2. Call our support team at +1 727-400-4145

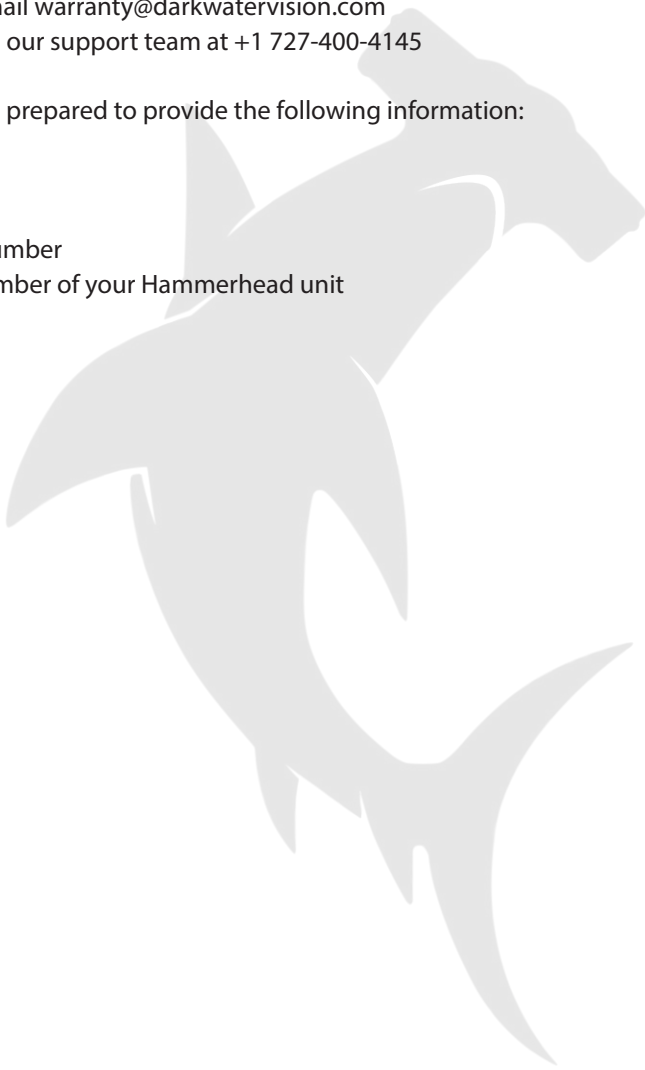
Please be prepared to provide the following information:

Name

Address

Phone number

Serial number of your Hammerhead unit





www.darkwatervision.com
support@darkwatervision.com
sales@darkwatervision.com
+1 727-400-4145