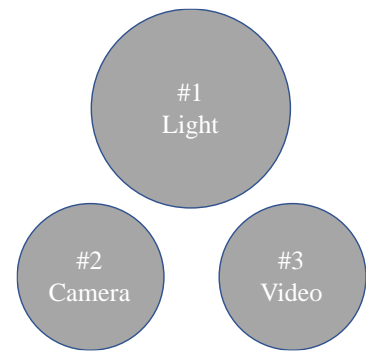


## Tovatec Mera Operating Instructions:

### 1. Light Button #1

- Press & Hold for 2 seconds to activate light – starts at the 1000 lumen wide light
- Quick Press 2<sup>nd</sup> time for 500 lumen wide light
- Quick Press 3<sup>rd</sup> time for 1000 lumen spot light
- Quick Press 4<sup>th</sup> time for 500 lumen spot light
- Press & Hold for 2 seconds to turn light off at any time



### 2. On/Off Camera Button #2:

- Press & Hold for 2 seconds to activate camera – a blue light will illuminate the clear plastic behind the three buttons, but it will not yet record video or take pictures. The blue light indicates a “camera ready” mode
- Quick Press 1 time to take a still photograph (camera must be on with blue light illuminated) – the clear plastic area will quickly flash red to show picture has been taken
- Press & Hold for 2 seconds to turn camera off – blue light will turn off

### 3. Video Button #3:

- Button only works when camera is in ready mode and the blue light is illuminated
- Quick Press 1 time to start video (camera must already be on with blue light illuminated) – the clear plastic area will begin to glow red and turn on/off every two seconds
- Quick Press 1 time to end video (clear area will stop glowing on/off red and will turn back to blue to indicate the camera is in ready mode)
- Note that the video is set to focus on objects two feet or more away from the camera
- Press & Hold Button #2 Camera button for two seconds at any time to turn camera off – blue light will turn off

## Micro SD Card:

- ***Make sure to use a Class 10 or higher SD card*** (Class 10, UHS 1, V10) – more information can be found at [https://www.sdcard.org/developers/overview/speed\\_class/](https://www.sdcard.org/developers/overview/speed_class/)
- When there is no SD card inside, the blue light will quickly flash
- When the SD card is full, the red light will quickly flash
- When the SD card is full, to save the new video, the system will automatically overwrite the oldest video taken on the video camera, in chronological sequence
- Pictures will not be overwritten, and no picture can be taken when the SD card is full

## Lower Power Indicator

- The flood light will flash 3 times when battery power is lower than 15% (it will do this three times). Given the large capacity of the battery, this flash means the light will run out in approximately 30 minutes, and in 15 minutes if using both the light and the camera together

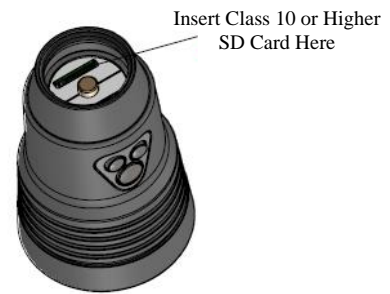
## Included:

- 1) Light+Camera Unit;
- 2) Charging Cradle;
- 3) Charging Cord;
- 4) Lithium-Ion Battery;
- 5) Spare O-Ring;
- 6) Wrist Lanyard;
- 7) Carrying Case

**Note:** *You can find an instructional video at [www.tovatec.com](http://www.tovatec.com)*

## SD CARD INSERTION

Unscrew the head of the light from the body (this is the only point where the light comes apart) and insert micro SD card. Insert micro SD card with sticker facing the inside of the light, metal contacts facing the outside of the light.



## SETTING TIME ON THE MICRO SD CARD

Find the file “Time” on the root directory of the SD card. Open the file and change the date to the current date. The format is YYYYMMDD\_HHMMSS which equals (FourDigitYear;2DigitMonth;2DigitDay\_2DigitHour;2DigitMinute;2DigitSecond)

## COLOR INDICATION ARRAY

This light features a color indication button/switch array with multiple modes. After every dive, wash the light and buttons/switches thoroughly in fresh running water to remove any sand as well as dirt and salt. Do not drop or place the flashlight on sand or dirt, since these things can impact the O-ring.

## O-RING CARE

Inspect O-ring sleeve to be sure it is clean and free of dust, debris, hair, sand, etc. before using underwater. Lightly lubricate O-ring sleeve with silicone grease prior to use and maintain lubrication at all times.

## RECHARGEABLE BATTERIES

The burn-time of rechargeable batteries varies.

Burn-time is affected by:

(A) -*Operating temperature* – Do not use at highly elevated temperatures for extended periods of time.

(B) - *Storage temperature* – Store in a cool and dry place at room temperature (20-25° Celsius/ 68-77° Fahrenheit).

(C) -*Time period the light was out of use.* For extended storage, discharge a lithium-ion battery to about 40 percent (or approximately 1 hour on a fully charged battery) and store it in a cool, dry place.

**Warning:** *always take batteries out of light when storing longer than 30 days.*

(D) -*Avoid completely discharging lithium ion batteries* – Battery experts suggest that after 30 charges, you should allow lithium-ion batteries to almost completely discharge. Continuous partial discharges create a condition called digital memory, decreasing the accuracy of the device's power gauge. So let the battery discharge to the cut-off point and then recharge. The power gauge will be recalibrated. For safety reasons, do not recharge deeply discharged lithium-ion batteries if they have been stored in that condition for several months

(E) -*Use of used/low quality rechargeable batteries.*

## RECHARGING LITHIUM ION BATTERIES

**WARNING:** DO NOT RECHARGE THE BATTERY NEAR FLAMMABLE ITEMS AND/OR PRODUCTS. Do not leave plugged in for more than 12 hours.

To remove battery to charge:

- Unscrew the head of the light from the body

- Remove battery and place it in the included cradle
- A red LED in the cradle indicates that the battery is charging
- When charging is complete, the green LED in the cradle switches on
- Replace battery, check o-rings and screw body of light back into the head

**WARNING:** When using rechargeable lithium ion batteries use only Tovatec brand batteries.

## **BATTERY DISPOSAL**

Rechargeable lithium ion must be disposed of or recycled in compliance with all applicable laws. Never throw into a fire, as batteries may explode. Keep batteries away from children.

## **WARNINGS**

- Remove the batteries if the light will not be used for long periods or during transport
- If you anticipate extended periods of no use, recharge the battery every 3 months
- Make sure the end cap is closed tightly before each dive
- Never point the light directly into eyes

## **ROUTINE MAINTENANCE**

- Rinse the outside of the torch in fresh water after every dive. NEVER disassemble the light
- Periodically check the condition of the O-rings, lubricate on a regular basis and replace as needed

## **WARRANTY**

If your light malfunctions, please review the trouble shooting guide at [www.tovatec.com](http://www.tovatec.com)

We want you to be 100% satisfied with your purchase. If for any reason your light fails or malfunctions, you can return it within 12 months of consumer purchase for repair and/or replacement. **Proof of Purchase from an authorized dealer within the past 12 months must be included with all warranty returns.** Please return your light to the place of purchase if purchased outside of North America. Commercial and Rental use is not covered. Any lights or batteries that have been disassembled void warranty. Warranty is not transferable. For additional information, please contact [Warranty@tovatec.com](mailto:Warranty@tovatec.com).

## **DETAILED SPECIFICATIONS**

1000 Lumen Spot & 1000 Lumen Wide

- 2 hour 30 minute run time with video off
- 1 hour 30 minute run time with video on

500 Lumen Spot & 500 Lumen Wide

- 6 hour run time with video off
- 2 hour 15 minute run time with video on

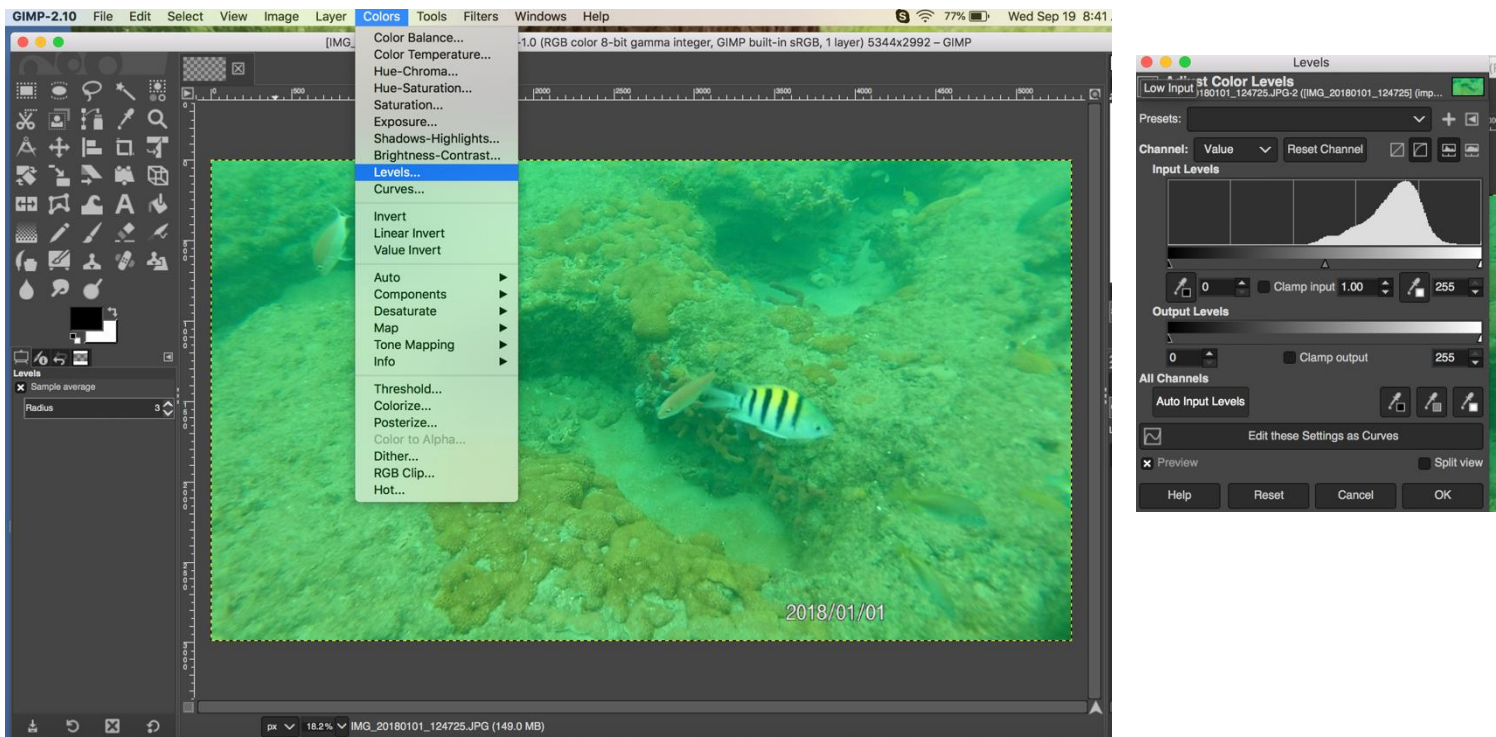
Camera Alone: 8 hour run time

Depth Rating: 200 feet / 60 meters

## Tovatec Mera Tips for Beautiful Pictures

Your Tovatec light and camera will download pictures in .jpg format and video in .MP4 format. These formats allow the images to be manipulated by a variety of photo editing software programs. Feel free to use your favorite program.

If you do not have a favorite image editor, we recommend the free GNU Image Manipulation Program, or “GIMP” which is available at <https://www.gimp.org/> The software has an auto correction feature for colors that will automatically balance more than 85% of the pictures taken. Simply import your picture and click on the tab “Colors” at the top of the screen. Then select “Levels” and on the “Levels” drop down select the “Auto Input Levels: button:



After this you can:

- Adjust the Color Balance: Select the “Colors” tab at the top. Then select “Color Balance”
- Adjust the Color Saturation: Select the “Colors” tab at the top. Then select “Hue-Saturation”
- Adjust the Brightness/Contrast: Select the “Colors” tab at the top. Then select “Brightness-Contrast”
- Play Around a Bit: Select the “Colors” tab at the top. Then select “Curves” and see how the light and dark areas of your image change – pick something you like.

Please note that photo editing is an art – not a science! Feel free to play around with your images until they look the best to you!

Once you are done with adjusting the colors of your image, you can crop your image and have it include only what you want. First select the rectangle tool which is the first button on the upper left of the GIMP platform button options. Then select the “Image” tab at the top of the screen. Then select “Crop to Selection” and only what you selected will remain. Save your new beautiful image for remembering, sharing and printing.

