

Underwater Panoramic Drop Video Camera

User's manual

Operation.

1. Before using, please, check up all parts of module dome.
2. Plug in 10-sockets connector to reel and other socket to control box "Кабель" (fig. 2).

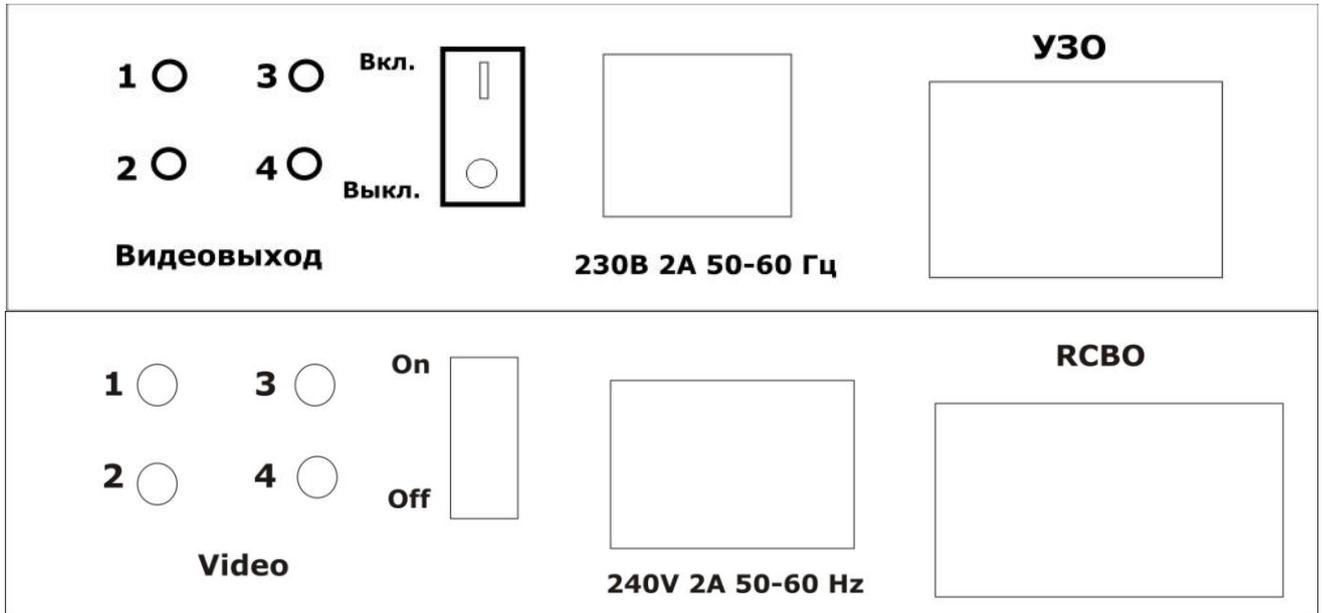


fig. 1

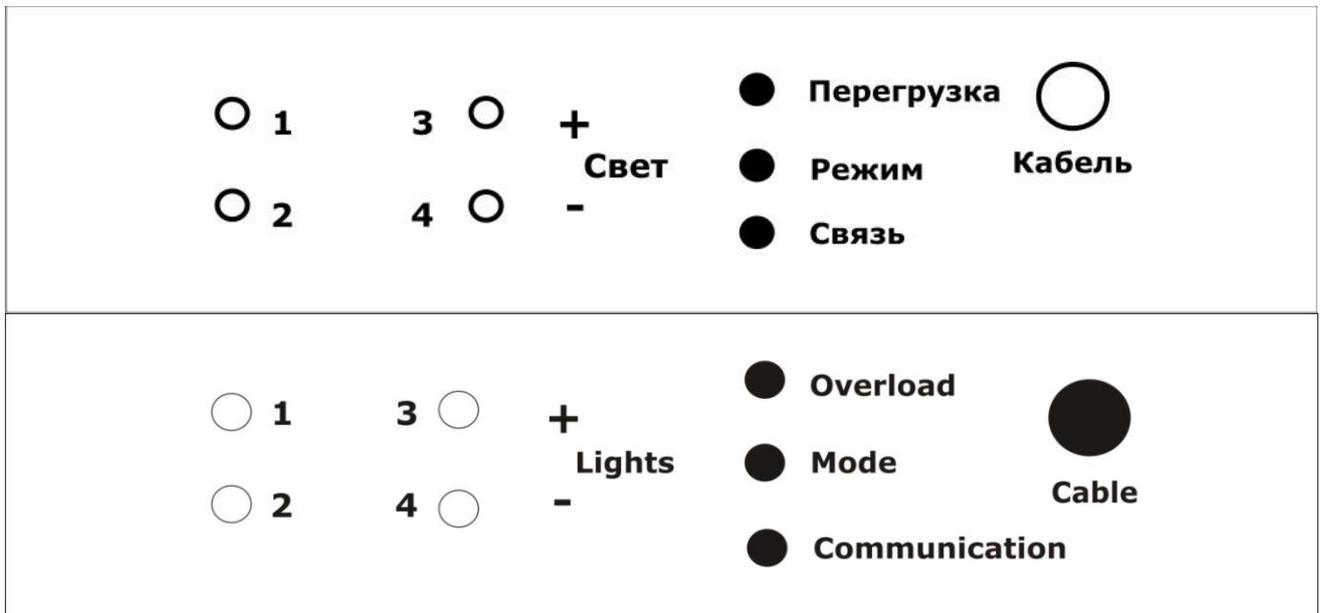


fig.2

WARNING!

Be very careful with the cable, do not:

- **Stand on it**
- **Press on it**
- **Twist it**

If any damages happened you must repair or change the cable

Only for reels with NO slip ring connector

- Before connect the reel, please, pull out the cable the length you need
- Connect black cable from control module to the connector on the reel
- To pull out more cable during the operation you must switch power OFF then disconnect black cable from the reel, then pull out the cable

3. If you use the external monitors or the video recorder connect a cable video output of control box (1-4, fig. 1) to an video input of this devices.

4. Plug in AC power cable

5. Set switch 230B “I” (UP position). LED indicator is on during the operation.
To finish operation set switch 230B “O” (DOWN position)

WARNING!!!!

To adjust brightness of LEDs use handle “brightness”

Do not switch lights on a full power on air!

Rinse the camera in the fresh water after using in the sea

Inspect the cable after the operation. In a case of any damages the cable must be repaired or changed.

Keep the module and the cable reel dry.

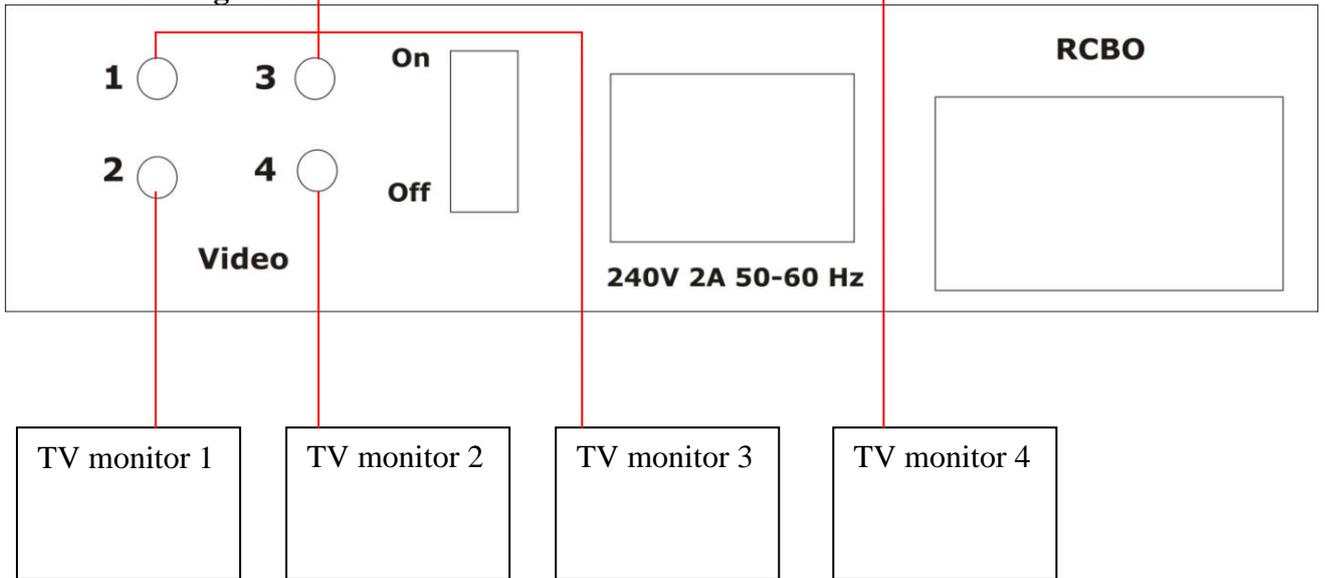
6. "Видеовыход" - "Video output"

"1", "2", "3" are video outputs from horizontal videocameras (fig. 1).

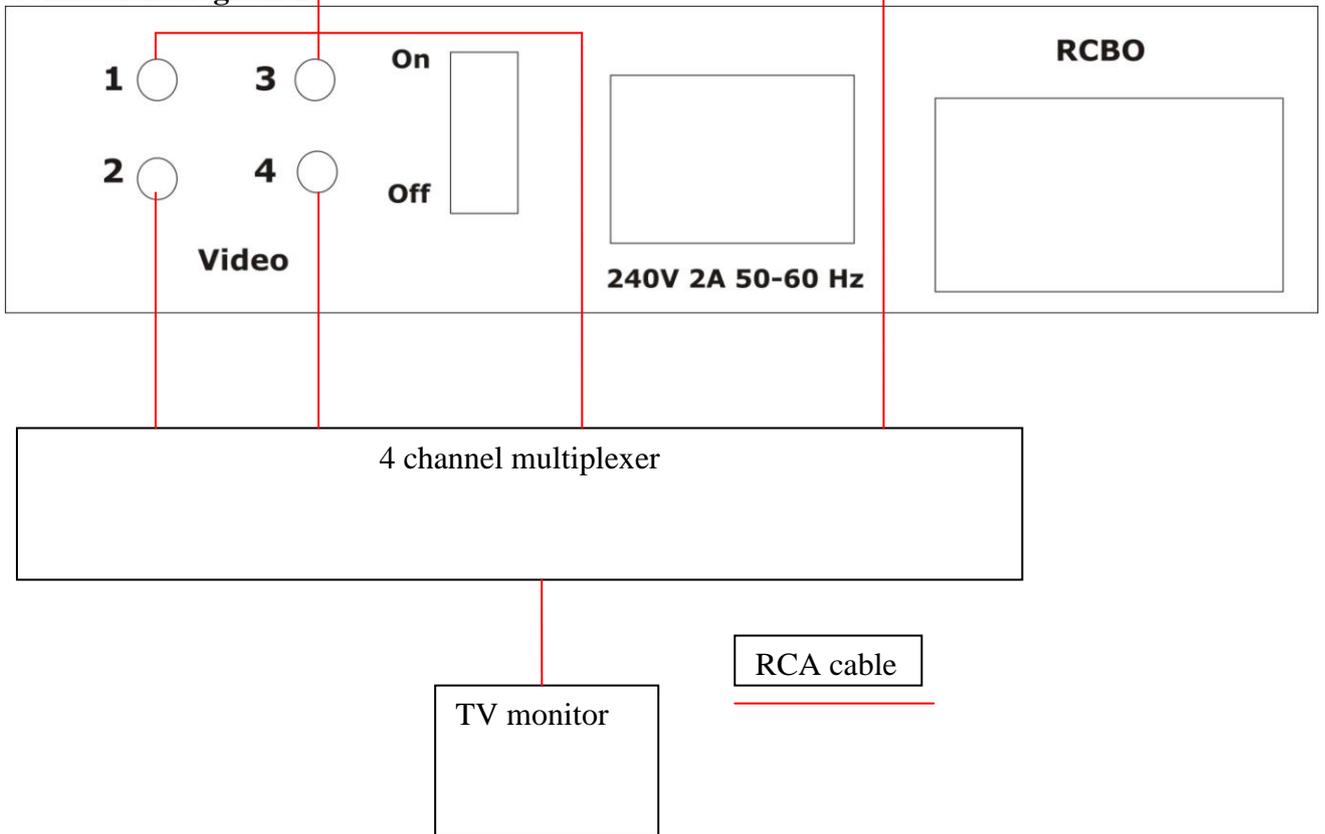
Attention! The data from the depth and compass gauge is displayed only in a video output "1"

"4" is a video output from the horizontal or vertical videocamera

Connection diagram1



Connection diagram 2



7. Brightness control of lights.

To increase brightness of lights is necessary to press or press and hold the button "3" (Свет +\Lights+). You see on the basic screen there is a message on brightness degree in percentage.

To decrease a brightness of LEDs it is necessary to press or press and hold the button "4" (Свет -\Lights-). You see on the basic screen a message of brightness in percentage.

To switch on lights to 100% it is necessary to press quickly simultaneously two buttons: "3" both "4".

8. Calibration of the depths gauge.

Attention! Calibration of the depth gauge by the user, can make wrong work of the gauge. Use this function only after consultation with the manufacturer.

To set depth value 0m is necessary in the surface or air. Press and hold not less than 3 sec. the button "1". The depth gauge indication on the basic screen should become 0,0 m. After that release the button "1".

To set current depth value it is necessary:

- To put camera to depth you know value;
- To press and hold not less than 3 sec. the button "1";
- To set by buttons "3" and "4" (+/-) value of depth on the basic screen;
- To press and hold not less than 3 sec. the button "1" to fix this value.

9. Calibration of a compass (option).

Attention! Calibration of the compass by the user, can make wrong work of the compass. Use this function only after consultation with the manufacturer.

For an input in a mode of calibration of a compass to press and keep not less than 3 seconds of the button "1" and "2".

On the basic screen there will be a message on an input in a mode of calibration of a compass then it is necessary:

- To release buttons "1" and "2";
- To turn the camera on 360 degrees around a vertical axis approximately for 2-4 sec. ;
- Again press and hold not less than 3 sec. of the button "1" and "2" for storing data .

Compass calibration is necessary for making in the absence of magnetic and electromagnetic fields which can deform indications and lead to wrong adjustment.

10. Time and date installation

To set time and date installation it is necessary to press and hold not less than 3 seconds of the button "2". On the basic screen there will be a message on an input in a mode of installation of time and date. After that to release button "2" and to make following actions:

- Buttons "2" to choose time or date (blinking on the screen);
- Buttons "3" or "4" to increase or reduce value of the selected parameter;
- Exit from a mode to press of the button "1".