Fishing Camera

We are much honored that Your Excellency select purchase our product produced by the company.Here, we would like to express our sincere thanks. In order to ensure that the device can bring its performances into full play and can be used for a long time, we earnestly request users to read the User's Manual carefully before using so as to obtain optimum performance.If you have any questions,please consult

Contents

1. Summary
Our is designed with one underwater camera and 3.5-inch display, which can keep watch on the moving direction of the underwater fish school, and then send the image through camera to the display to determine the location of fish school and the situation of biting fishhook, so it is the best partner of fishing fans

Our product is produced based on the advanced technology in Japan and Taiwan, with rock-solid quality. We sincerely invite the dealers at home and abroad to join our industry

2. Considerations Before Use
Please charge the rechargeable batteries for 8 hours respectively before the first use. Don't disassemble the host machine of Display at random in order to avoid accidents and artificial loss.

At first, insert the camera plug into the host, and then turn on the main power switch. Please tie the sub-fishing thread to the camera neck (4), and then let it go through the hole at 10cm to 20 cm below the central ring (5). For details, please see the Figure (1) in Section 4-1 Camera.

3. Main Features and Functions
3-1 Camera
The image sensor chip with ¼ inch **200W** pixels is adopted, so the image captured is clear and with true color rendition.

Low-level lighting is 0.1Lux and resolution is up to 420 TV Line

The camera is equipped with two infrared LEDs produced by Taiwan Dingyuan, so it is characterized with excellent supplementary lighting effect and can see clearly the moving direction of fish school under very dark environment.

Fishing thread is made of special soft materials and its length can be 20 meters and 30 meters or customized. In addition, the tension of fishing thread is up to 10kg.

The housing of camera is made of hard aluminum-magnesium alloy and is coated with oxidation resisting painting or baking finish.

3-2 Display

The display adopts 3.5-inch digital TFT LCD

The image resolution is up to 960 (R.G.B) × 240

The image can be switchovered up and down or left and right at will
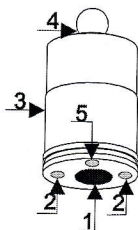
The display is equipped with power-down device

Catalog-type color adjustment

It is designed with low - battery indicator
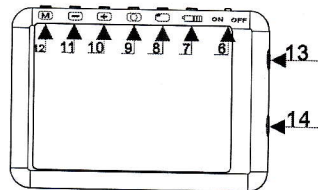
4.Name of Main Parts

4-1Camera

(1) Lens
(2) Infrared LED
(3) Camera Housing
(4) Camera Neck
(5) Central Ring

4-2Display

(6) Main Power Switch
(7) Power Switch
(8) Image Switchover Button
(9) Power-saving Mode Switch
(10) (+)
(11) (–)
(12) Catalog
(13) Camera Input End
(14) Charging Input End

5. Operation and Application Description

5-1Camera

Please tie the fishing thread to the camera neck, and then let it go through the central ring (You mayalso not use the central ring)

Tips: Tie the fishing hook at the place at 10cm-20cm below the central ring.

Considerations

Please select the fishing thread bearing the pull under 10kg, for example, 16-pound thread under the EU standard or 4# thread under the Japanese standard, but avoid using too thick thread to pull apart the main line of camera or to affect the transfer function.

5-2 Power Switch

(6) Main power switch is used to turn off all powers within the host and ,(7) is standby manual control switch.

It is recommended that users can use the main power switch to start up or shut down the camera to avoid battery consumption.
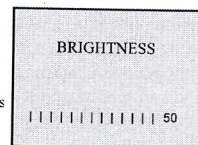
5-3Catalog Operation

Press the Catalog key(12)to select the item to be adjusted.

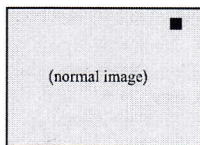Select (+)(10)or (−)key(11)to adjust the best color.

BRIGHTNESS	Brightness adjustment
CONTRAST	Contrast adjustment
SATURATION	Color adjustment
RESET	Restore factory defaults

BRIGHTNESS
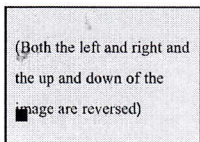
| | | | | | | | | | | | | | 50

5-4Image Switchover

Press the arrow key (8)on the image, and then a small box will appear on theupper right corner of the screen

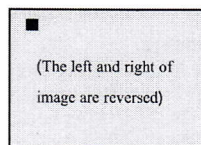And press the arrow key(8)on the image again,then a small box will appear on the upper left corner of the screen.

(normal image)	(The left and right of image are reversed)

Press the arrow key(8)on the image, and then a small box will appear on the bottom left corner of the screen.

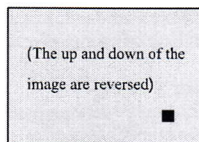And press the arrow key(8)on the image again, then a small box will appear image again, then a small box will appear

(Both the left and right and the up and down of the image are reversed)	(The up and down of the image are reversed)

When the switchover function is shut down, the image will return to normal state when booting again (without memory function)

5-5 Power-saving Mode

There are three sections of brightness control under the power-saving mode, mainly for controlling the brightness of LED backlight.

When booting, the backlight brightness is brightest, and if pressing the power-saving mode switch (9), it will enter the first stage of power-saving mode that a pointer of brightness will appear, and then press the power-saving mode switch (9) again to enter the second stage of power-saving mode that a pointer of brightness will appear again, fianlly press power-saving mode switch (9) again to go back to the brightest stage.

When the power-saving mode is shut down, the backlight brightness will be brightest when booting again (without memory function).

Power-saving mode is mainly used for fishing at night to control the power supply of LED backlight

5-6 Battery Indicator

Press power switch (7) and hold for more than 1.5 seconds to enter into the power on/off mode.

Press power switch (7) and hold for less than 1.5 seconds (to show the current capacity of battery)

When the electrical quantity of battery is below the setting value, the low-power icon will appear on the display until the machine is shut down due to no power.

6. Main Technical Parameters

6-1 Camera Parameters

dimension：30mm×17.8 ψ (length×diameter)
weight：appr. 15g
power supply：power supply for host (voltage3.7Vcurrent100mA)
consumed power：0.55W/infrared operation 0.66W
resolution：200W pixel
image pickup angle ： $\geqq 150°$
operating temperature：-10℃～60℃
operating depth：10 meters underwater

6-2 Display Parameters

dimension: 103mm×72mm×17mm(width×height×thickness)
The thickness of Ladder-type Holder is not included
display size :3.5inch Digital LCD
resolution : 960 (R.G.B) x 240
backlight brightnes : 420 cd/m2
power supply：rechargeable battery(voltage 3.7Vcurrent 4000mA)
consumed power：1.7W(including camera power)
battery endurance：7-8.0 hours(under fully charged state)
weight：appr. 150g (containing the battery)
operating temperature：-10℃～60℃

6-3package size

dimension: 270mm×200mm×43mm(length×width×thickness)

7. Troubleshooting

Before seeking assistance, users can firstly refer to this table for finding a solution.

Fault	Possible Cause	Solution
Turn on the host power and switch power, but noblue screen appears onthe display.	Rechargeable batteries are power off.	Charge in time.
No image (but with blue screen)	The camera plug is not inserted into the host.	Please ensure that the camera plug is inserted into the host.
There is image, but it's poor.	The catalog setting is abnormal.	For restoring the factory setting, referto User's Manual.

8. Qualified Parts List

(1) 3.5-inch display (host)------1set

(2) camera-------------------------- 1set

(3) User's Manual---------------1 PCS

(4) 4.2V/1A charger --------------- 1 PCS

(5) USB connecting line --------------- 1 PCS

(6) cramp ring--------------------4 PCS

(7) central ring-------------------- 2 PCS