



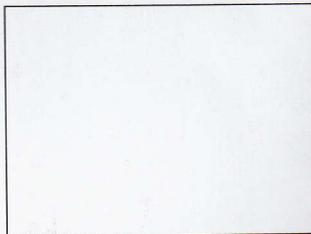
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Fishing Camera

Warranty Card

Item		[REDACTED]		Serial Number	
Customer	Name			Attn	
	E-mail			Phone No.	
	Address				
Purchase Date	From	MM	DD	YY	purchasing within one year
Dealer	Name			Phone No.	
	Address				

The card is invalid without the company seal on the right.



Contents

- 一. Overview
- 二. Considerations before Use
- 三. Main Features and Functions
- 四. Name of Main Parts
- 五. Operation and Application Description
- 六. Main Technical Parameters
- 七. Qualified Parts List
- 八. Troubleshooting
- 九. Warranty Certificate

1. Summary

ShiFengDa Technology (Shenzhen) Co., Ltd. is a Taiwan-funded enterprise integrating development, production and sales, with 「Fishing Delight」 visual fishing monitoring device as the main product of the company at present.

「Fishing Delight」 is designed with one underwater camera and 3.5-inch display, which can keep watching 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

ShiFengDa's 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 1/4 inch 300,000 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 with 15 meters in length and 1.0mm in diameter, withstanding a tension of up to 10kg, 20 meters 10kg test cable, another two items with 1.9mm in diameter 25 meters 40kg test cable and 50 meters 40kg test cable, totally four items. In addition, customized is acceptable.

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 320 (R.G.B) × 240

The image can be switchover 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

Digital zoom three times

4. Name of Main Parts

4-1 Camera

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

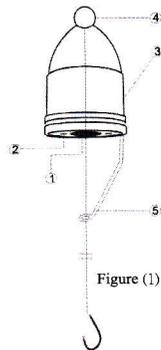


Figure (1)

4-2 Display

- ⑥ Front Cover of Display
- ⑦ Lens of Display
- ⑧ Power Switch
- ⑨ Power-saving Mode Switch
- ⑩ Image Switchover Button
- ⑪ (+)
- ⑫ (-)
- ⑬ Catalogue
- ⑭ Camera Input End
- ⑮ Main Power Switch
- ⑯ Charging Input End
- ⑰ Back Cover of Display
- ⑱ Ladder-shaped Holder

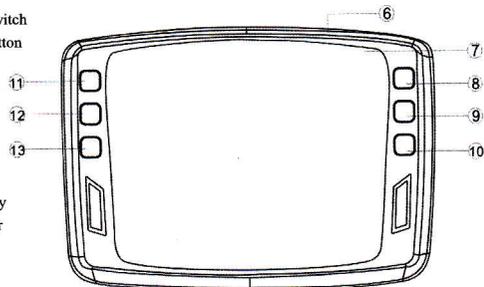
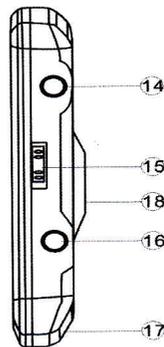


Figure (2)



Figure(3)

5. Operation and Application Description

5-1 Camera

Please tie the fishing thread to the camera neck, and then let it go through the central ring (You may also 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

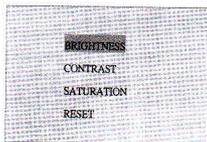
(15) Main power switch is used to turn off all powers within the host and (8) is standby manual control switch.

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

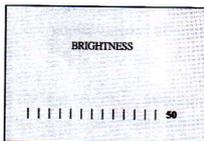
5-3 Catalog Operation

Press the Catalog key (13) to select the item to be adjusted.

Select (+) (11) or (-) key (12) to adjust the best color.



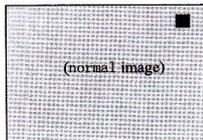
Brightness adjustment
Contrast adjustment
Color adjustment
Restore factory defaults



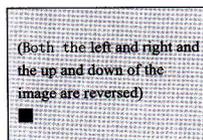
5-4 Image Switchover

Press the arrow key (10) on the image, and then a small box will appear on the upper right corner of the screen

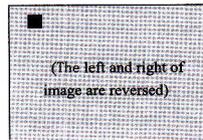
Press the arrow key (10) on the image again, and then a small box will appear on the upper left corner of the screen.



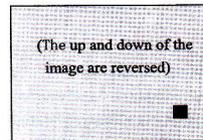
Press the arrow key (10) on the image, and then a small box will appear on the bottom left corner of the screen.



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



And press the arrow key (10) on the image again, then a small box will appear on the bottom right corner of the screen



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, finally 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 Indicators

Press power switch (8) and hold for more than 1.5 seconds to enter into the power on/off mode.

Press power switch (8) 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.

5-7 Digital Zoom

Press (+) zoom in the image, zoom three times continuously
 After zoom in, press (-) to reduce image, down size three times continuously

6. Main Technical Parameters

6-1 Camera Parameters

dimension : 34mm×20mm (length×diameter)
 weight : appr. 12g
 power supply : Voltage3.7V, current150mA
 consumed power : 0.55W / infrared operation 0.66W
 resolution : 300,000 pixel
 image pickup angle : $\geq 150^\circ$
 operating temperature : $-20^\circ\text{C} \sim 60^\circ\text{C}$
 operating depth : depending on the length of the cable

6-2 Display Parameters

dimension: 110mm×76mm×18mm(width×height×thickness)
 The thickness of Ladder-type Holder is not included
 Display size: 3.5inch Digital LCD
 resolution : 320 (R,G,B) × 240
 backlight brightness : 300 cd/m²
 power supply : rechargeable battery(voltage 3.7Vcurrent 4000mA)
 consumed power : 1.9W(including camera power)
 battery endurance : 7.5-8.0 hours(under fully charged state)
 weight : appr. 180g (containing the battery)
 operating temperature : $-20^\circ\text{C} \sim 60^\circ\text{C}$

6-3package size

dimension: 250mm×210mm×55mm(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 no blue screen appears on the 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, refer to User's Manual.

8. Qualified Parts List

■ 3.5-inch display (host)-----	1set
■ camera-----	1set
■ User's Manual-----	1 PCS
■ 5v/1A charger -----	1 PCS
■ display holder -----	1 PCS
■ hexagon nut-----	1 PCS
■ wrench-----	1 PCS
■ cramp ring-----	8 PCS 2 group
■ central ring-----	2 PCS