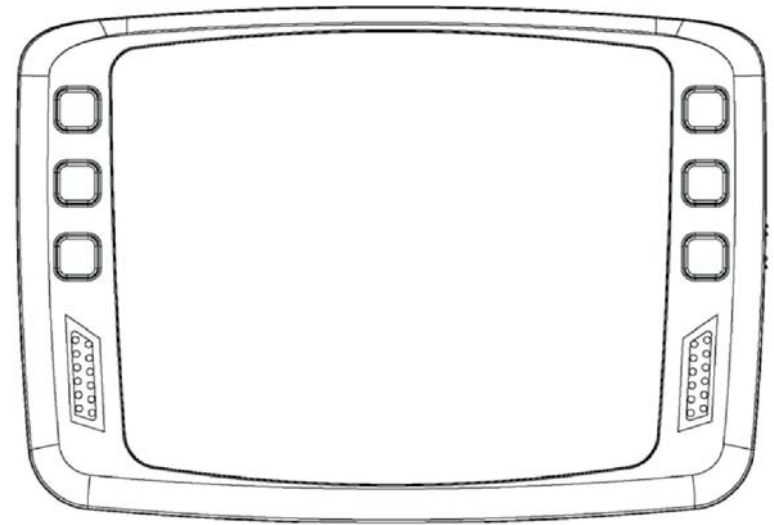


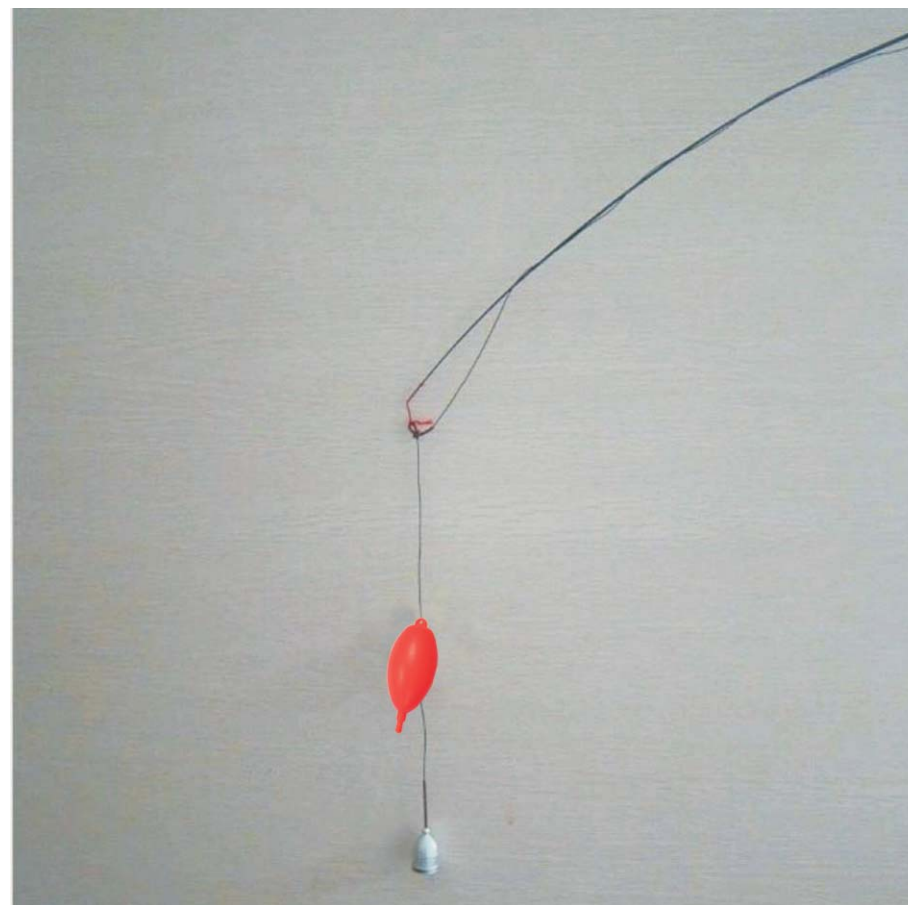
# Underwater Camera **USER MANUAL**



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### 6.Complete the assembly



#### 4、Using wrench:

Wrench is used for lock the bracket behind the monitor, can lock the wrench when the bracket loose.



#### 5、Tying the fishing line

The rubber is used to protect fishing line to prevent it damaged when knot, move the rubber to the knots place. According to the below operation:

1. moves the rubber holster to the knots place.



2.Knot. Please knot on the rubber holster.



3. Finally knot with rope.



#### A、COMPANY PROFILE

1、 The company specialized development and production underwater monitor, underwater monitoring system is the necessary equipment which can operations at sea and oil, water conservancy and other department. It has been widely applied oceans and land water detection to get clear image in underwater environment at present.

Aquaculture, underwater exploration, reservoir, dam, tunnel, the construction of water conservancy facilities and monitoring, Wells, the restoration of the oil Wells, the urban water supply network and pipeline monitoring and maintenance, and water sports research, the entertainment industry underwater sightseeing, underwater weapon test of monitoring and measurement, underwater military facilities reconnaissance, recording and scientific exploration of the research achievement, and oil deep sea homework wreck removal, etc.

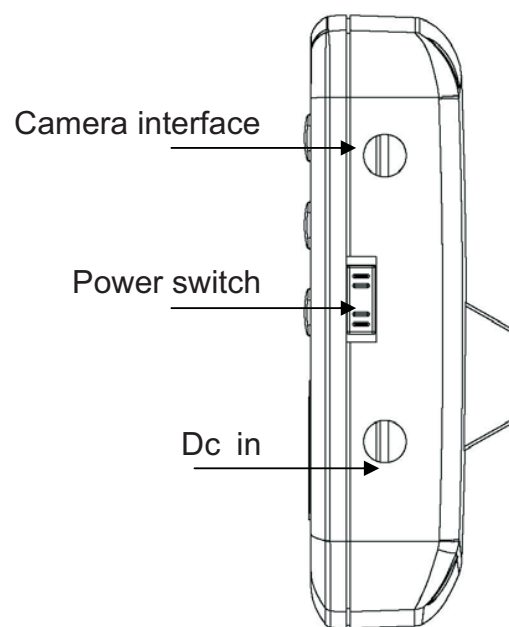
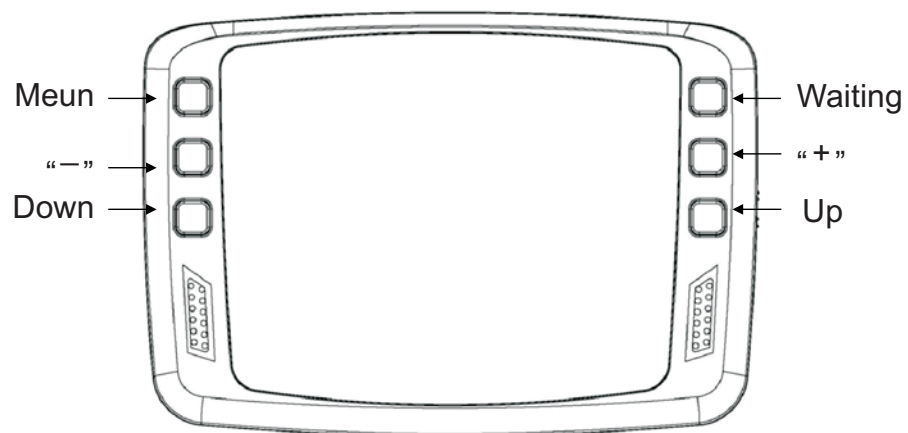
The company to 2004 was founded in September, has accomplished countries the main research; Applied for dozens of national patent; Form the underwater photography, underwater professional security monitoring, underwater weapons testing, underwater lighting, underground photography, pipe camera, emergency rescue camera multiple products field. At present domestic production is underwater...

Products overview :

This product with high sensitivity coms imaging devices, LED lighting equipment, with excellent image function. long working life PCB circuit. With the view is big, image is clear, low power consumption, durable, product seal effect is good, the operation is convenient wait for a characteristic.

The underwater camera system with small size, light weight and other characteristics, equipped with 10 meters underwater special cable, easy to use, simple operation. Can be used in the detection, DAMS and reservoirs, such as underwater piers of construction, the fishing and close underwater monitoring.

## B、Operation introduction



2.2 Add hook: Assembly more Flexible, need adjust the distance between the hook and camera according to the water quality, then fixed , as below picture



Note: Pls tied to the camera grooves inside! Do not tied to the wire, otherwise it will cause permanent fault, corrent picture as right: :



## 3.buckled assembly method

Connect the fishing line to monitor along the fishing rod, use the buckled to fixed the fishing line in order to prevent fishing line loose. Correct assembly method as below pictures:



## E、assembly drawings

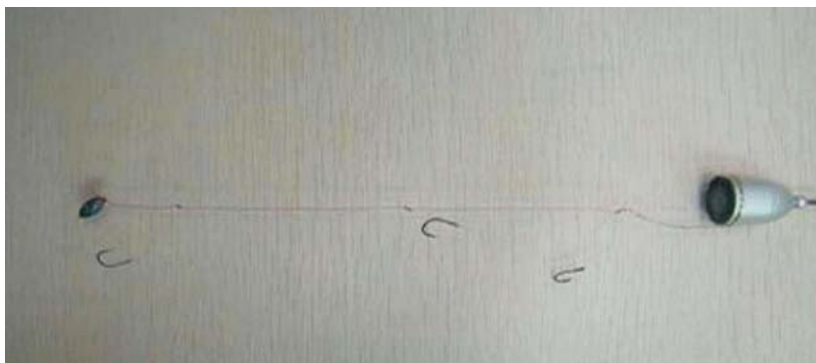
### 1、Float assembly method

he fishing thread fixed in float on both sides can Increases firmness.in float red side have a cylindrical protruding, press and loosen after fishing line in , press the ball and hook, and the hook shows on the green side, put the line and loose. The assembly is shown below .



### 2、Hook and the center of the ring assembly method

2.1 string of hook: string three hook, interval not too long, maintain 5 CM , can see all the bait even online, Lead young can be appropriately extended, as below picture:



## C、Operation

- 1.According to the menu button into the operation key surface show red, add/down to key can adjust brightness;
- 2.According to the menu button downward adjustments that contrast red, add/down to key can adjust contrast;
- 3.According to the menu button downward adjustments that red color, add/down to key can adjust color;
- 4.According to the menu button downward adjustments resolution display red, according to add/down to key can adjust definition;
- 5.According to the menu for 2 times into the function interface, into the function interface to the top, bottom, left and right click on the adjustment language, date, and games;
- 6.According to the menu for 3 times into the function interface, into the function interface to the top, bottom, left and right can adjust time, ON/OFF time;
- 7.According to the menu for four times into the function interface, into the function interface to the top, bottom, left and right can adjust system, blue screen switch;

#### Camera:

1. 10-15M cable
2. underwater camera with LED lights
3. 3.5 MM earphone interface (power supply and video output as the same interface)

#### Underwater cameras connected

Connect the camera (3.5 MM earphone interface) to the handheld monitor and then work on.

#### Note :

- 1.Can't get ideal image when working shining or strong light ,exposure may be damaged cameras.
2. The cameras in place in order to get better effect
3. The observation of the best Angle camera is vertical to the depending on the item
4. In the water quality cloudy or in the light is very weak place need additional light source
5. According to the length of the cables camera has a simulation underwater pressure test;
6. Clear the head of camera with warm water or soap.
7. Make personal safety when using, ensure the safety of the water near the children.
8. Please correct use cameras, do not open .

## D. product specification

### 1、monitor

Item	Specification
Monitor size (inch)	3.5"
System	PAL/NTSC
Monitor brand	Tianma, show digital LCD screen
resolution	320(RGB)*240
Viewing Angle ( ° )	40/60/60/60±10
brightness (cd/m2)	350
Sizes (mm)	108 x 75 x 20
video	(1Vpp)1 video input
Adaptor	9V INPUT(7-14V)
Power	1.5±0.2W
language	Support 11 languages
Display size (mm)	70 X 52
connector	3.5MM jack
function	The built-in lithium battery (can work 3~4 hours)
working temperature (°C)	-10~+60
storage temperature (°C)	-20~+70

### 2、Camera specification



Photographic chip types	Color1/4CMOS	
System	PAL /NTSC	
Chip	PC1030N	
pixel	500 (H) × 582 (V)(PAL)	510 (H) × 492 (V)(NTSC)
Lens visible Angle ( ° )	160°	
Lens size	2.2mm	
Minimum illumination	2LUX	
visible distance (water clear)	≤1m	
Power supply	DC5V	
Biggest current consumption (Max)	400 mA	
(S/N)	≥48dB	
working temperature (°C)	-10 — +50℃	
storage temperature (°C)	20 — +60℃	
Work environment humidity	15%~85%RH	
TV LINE	420 TV Line	