underwater camera
fish finder

Common Type
Recording Type

Type A
Type B

Instruction Manual
**Safety Notes**

1. Please read the manual carefully before using it.
2. Handle it carefully during operation, avoid throwing down or pressing it heavily.
3. If the users disassemble or deliberately damage the machine, it will beyond the warranty.
4. Please copy your information before connecting the SD card, the manufacturers will not be responsible for the loss caused by losing data. (for recording type)
5. Don't cut off the power supply while recording or playing, it will probably cause damage to the product and recorded documents. (for recording type)
6. After being used, turn off the display and pull out all the connection joints.

**The Range of usage**

The product is an underwater video camera and fish finder

1. fish finder
2. underwater breeding monitoring
3. fishing monitoring
4. underwater viewing
5. underwater adventure
6. water well monitoring

**Specifications**

<table>
<thead>
<tr>
<th>Program</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charger</td>
<td>AC100–240V DC12.6V 1000MA</td>
</tr>
<tr>
<td>Battery</td>
<td>lithium battery 12V4000MA</td>
</tr>
<tr>
<td>Camera light source</td>
<td>Type A: Fourteen high-power brightly white lights</td>
</tr>
<tr>
<td></td>
<td>Type B: six white lights</td>
</tr>
<tr>
<td>camera picture</td>
<td>color</td>
</tr>
<tr>
<td>monitor image</td>
<td>color</td>
</tr>
<tr>
<td>camera:</td>
<td>high resolution</td>
</tr>
<tr>
<td>monitor input voltage</td>
<td>12VDC</td>
</tr>
<tr>
<td>SD card</td>
<td>standard 2G(for recording type)</td>
</tr>
<tr>
<td>operation temperature</td>
<td>-20–60 degrees</td>
</tr>
<tr>
<td>storage temperature</td>
<td>-30–80 degrees</td>
</tr>
<tr>
<td>package size</td>
<td>Type A: 400MM<em>165MM</em>345MM</td>
</tr>
<tr>
<td></td>
<td>Type B: 225MM<em>120MM</em>190MM</td>
</tr>
<tr>
<td>gross weight</td>
<td>Type A: 4.8KG</td>
</tr>
<tr>
<td></td>
<td>Type B: 1.6KG</td>
</tr>
</tbody>
</table>
IV Display operation interface instructions

Common Type

1. power 2. adjustment + 3. adjustment - 4. menu

Recording Type

1. record/ adjustment - 2. play the video / adjustment + 3. menu/exit 4. forward 5. backward 6. power

V how to operation

Common Type

1. Boot
Connect all the connectors and press the power key, the system will start to work.

2. Menu Settings
1> Brightness
Press the MENU key to enter brightness setting, press the "+-" key to set the brightness, and then press the MENU key again to quit the menu page after doing this.

2> Contrast
Continuously press the MENU key twice to enter contrast setting, press the "+-" key to set the contrast, and then press the MENU key again to quit the menu page after doing this.

3> Color setting
Continuously press the MENU key for three times to enter the color setting, press the "+-" key to set the color, and then press the MENU key again to quit the menu page after doing this.

3. Image mode
Press the "image mode" key, and the images will overturn in all directions.

Recording Type

1. Boot
Connect all the joints and press the power key, the system will start to work.
2. Menu settings

Press MENU to enter the menu page

1> Language Setting – After entering the menu, select the first icon and press MENU to shift between Chinese and English. Then press > or < to select “quit” and press MENU to confirm.

2> Light, Contrast & Chroma Settings – After entering the menu, press + or – to select the second icon and press > or < to set the parameter of the selected option. Then press > or < to select “quit” and press MENU to confirm.

3> Date and Time Settings – After entering the menu, press + or – to select the third icon and then press > or < to select the option to be set. Press + or – to select the sub-option to be set and press > or < to set the parameter for the selected option. Then press MENU and select “quit”, and confirm by pressing MENU.

4> Photo Setting – After entering the menu, press + or – to select the fourth icon and press > or < to select the option (view, shoot, delete, format, back-up, quit) to be set. Then press MENU and select “quit”, and confirm by pressing MENU.

5> Video Setting – After entering the menu, press + or – to select the fifth icon and press > or < to select the option (record, play, format, quit) to be set. Then press MENU to confirm the selected option, finally quit by pressing MENU.

3. Record

When inserting a new card or something goes wrong with the card, press the button REC and format will appear in the middle of the screen. Select “Yes” by pressing > or < and then press MENU, then the card will be formatted.

1> Press REC and the recording will start. The left top corner of the screen will reveal the recording date and time.

2> Press MENU during the recording to quit the recording mode.

Notes: To facilitate replay and protect the record file from getting lost, when the file size reaches 512 MB, the system will automatically pack the file and store it.

4. play the video

1> Press PLAY to view the video file and the video will play automatically. Press > or < to select the video package. When the video is being played, at the left top corner of the screen will reveal the date and time of the record and an icon of playing.

2> When the video is being played, you can press the PLAY button to select Slow-Play. Quick retreat at 2/32 times the normal speed can be selected.

3> When the video is being played, press REC to select Quick-Play. Quick Progress at 2/4/8/16/32 times the normal speed can be selected.

4> When the video is being played, it will pause if you press MENU and then continue if you press MENU again.

5. Quit

In whatever operation, long press the MENU button and you can quit the current operation.
VI Connection

Type A

1. monitor video
2. Power of monitor
3. Camera cable

Type B

VII Charging

When the battery power is low, it needs charging, and the method is as below:
1. Take out the battery and charger from the box.
2. Connect the charger to the battery (red to red, black to black)
3. Connect the charger to the alternating current of 110–200v. The red indicator means charging.
4. The green indicator means finishing charging.
Notes: to make sure the battery using age longer, please recharge it timely; otherwise, it will make it can not recharged.

VIII The method of taking out the SD card

1. Press the buttons on both sides of the display with two hands at the same time to pop the display.
2. Press the SD card slightly on the left corner of the display to pop the SD card.

Feature of the camera:
1. The casing of camera is all made of metal, firm and durable.
2. The visual angle of camera is 360 degree, the camera rotates automatically, manually, AB section.
3. Rotation speed level control.
4. With 14 highlight night-vision lights, which can fill the light well.
5. Night-vision LED light can be controlled by the switch.
6. Applied ultra high definition camera board, with good camera shooting effect.
7. With 20m/30m/50m special cold-resistant, water-proof, and anti-pressing cable.

IX Product components and accessories

1> Type A Camera

1 transparent case
2 highlight night-vision
3 lens
4 metal casing
5 camera connection
6 cable
7 reel

2> Type A power box

1 power light
2 key
3 power switch
4 charging connecting base
5 camera connector
6 power of monitor
7 monitor video
1. **startup & shutdown**
   1> Connect all connectors (camera aviation line and monitor line); turn the power switch to ON, the power light is on.
   2> Press "ON" on the keyboard, the machine starts operating under auto mode.
   3> Press "L" and "R" at the same time, the machine stops.
   4> Turn the power switch to "OFF", and disconnect the connectors.

2. **Turn on the night-vision light.**
   Press "LED" on the keyboard to control the switch of night-vision of the camera. The light is on when starting up.

3. **Rotate manually and automatically**
   1> Press "AUTO/MANU" to switch manual and auto rotation.
      It will be auto when starting up, the camera will rotates right under auto status.
   2> Turn left. Press L under manual status, the camera turns left, press L again the camera stop.
   3> Turn right. Press L under manual status, the camera turns left, press L again the camera stop.
   4> Rotate to specified angle. Press R under auto status to choose angle A, then press R to choose angle B, the camera rotates between A and B. Press R again to cancel the rotation and turn to auto status.

4. **Rotation speed control**
   1> Press SPEED under auto status and start high-speed rotation. Press SPEED again to go back to normal speed.
   2> Press L under auto status, control the speed with 6 levels.

5. **Change the fuse**
   1> Take down the side logo on the power box.
   2> Take down the four bolts on the corner of the power box.
5 Type B system

1 float 2 battery
3 charger 4 display
5 camera 6 cable
7 aluminum box

X Common breakdown and process

<table>
<thead>
<tr>
<th>Breakdown</th>
<th>Reasons and process</th>
</tr>
</thead>
<tbody>
<tr>
<td>No electricity</td>
<td>1. Check all the connections to see whether something goes wrong 2. Check whether the fuse is disconnected.</td>
</tr>
<tr>
<td>No picture shows when the indicator is on; the indicator can’t be on</td>
<td>1. Check all the connections 2. Check whether the battery powerful or not, try again after charging.</td>
</tr>
<tr>
<td>Unable to record</td>
<td>1. The card is plugged in the right place or not 2. The new card is formatted or not 3. Power-down while recording or not</td>
</tr>
<tr>
<td>Unable to charge</td>
<td>1. The indicator of the charger is bright or not 2. The DC plug is placed appropriately or not</td>
</tr>
</tbody>
</table>

X Product warranty service card

<table>
<thead>
<tr>
<th>Name</th>
<th>Tel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Product Name</td>
<td>Model</td>
</tr>
<tr>
<td>Purchasing Date</td>
<td></td>
</tr>
<tr>
<td>Invoice or Receipt Number</td>
<td></td>
</tr>
<tr>
<td>Dealer Tel Contactor</td>
<td></td>
</tr>
<tr>
<td>Breakdown Description</td>
<td></td>
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</tbody>
</table>