

UNDERWATER MONITOR SYSTEM

INSTRUCTION GUIDE & MANUAL



Read these instructions completely before operating this device (A)

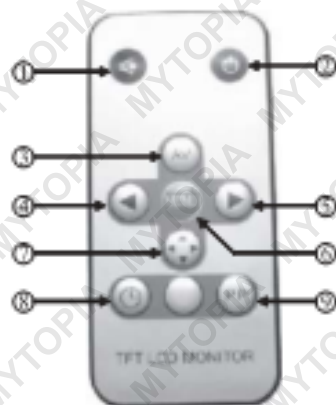
Waterproof color video Camera

Monitor

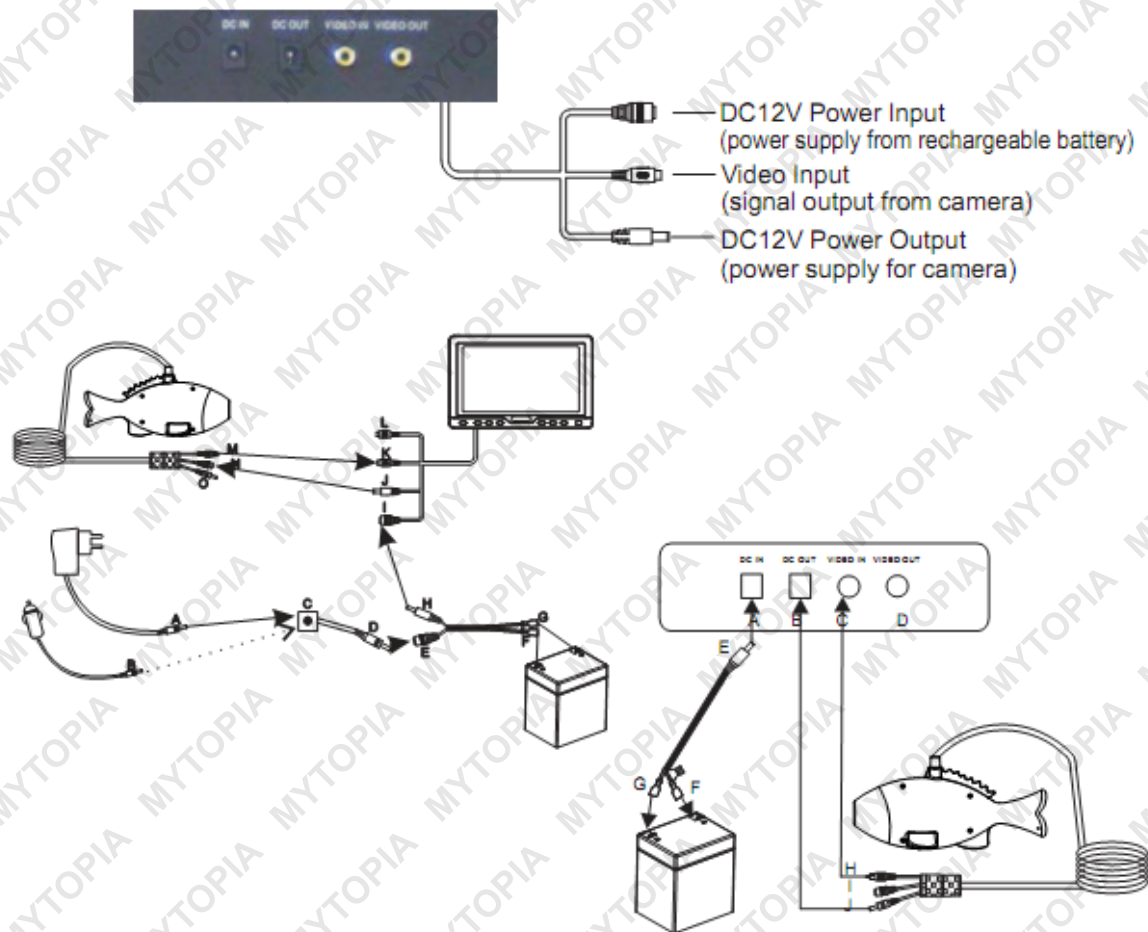


- 1.Receiving window
- 2.AV1/AV2
- 3.Mode switch
- 4.Menu
- 5.Adjustment key -
- 6.Adjustment key +
- 7.Power

Remote control



- 1.Mute
- 2.Power
- 3.AV1/AV2 Switch
- 4.Adjustment Key -
- 5.Adjustment Key +
- 6.Menu
- 7.Mode Switch
- 8.Time
- 9.P.P mode



Connection:

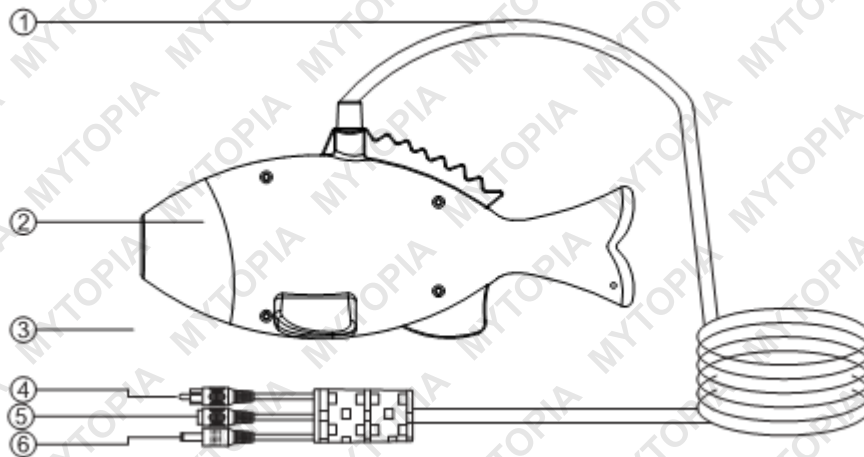
1. Connect the video signal
2. Press the power switch to turn the monitor display on
3. Adjust the image display with the remote control
4. Adjust the screw to adjust the angle of the display
5. Use the remote control or display mode switch to adjust the orientation of the image

THE CAMERA

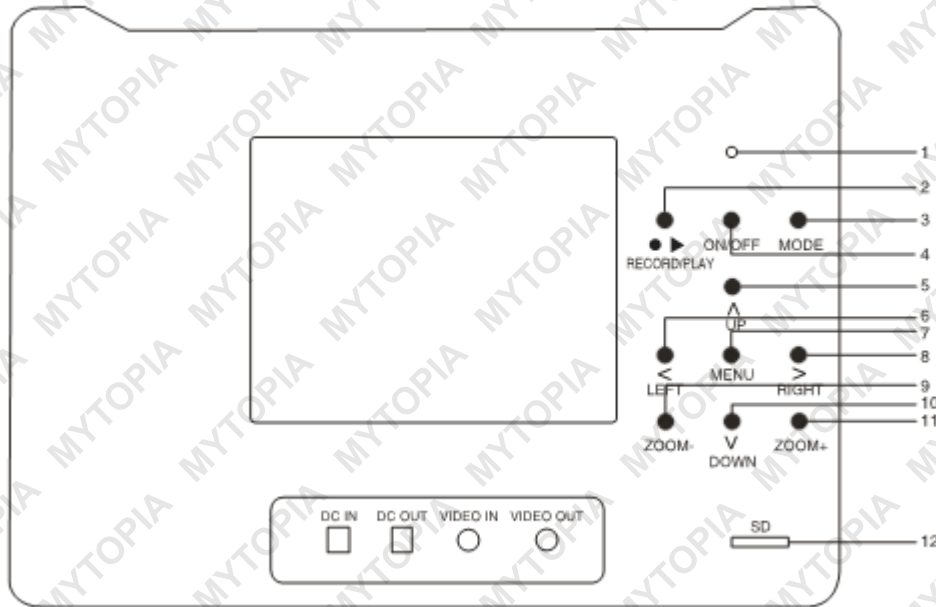
1. 20m or 50m cable
2. Underwater camera with white LEDs
3. Stainless steel ballast
4. Video output
5. DC12V power input (female head)
6. DC12V power output (male head)

Notes:

1. The focal length of the camera is 1m. In clear water conditions, the visual clear distance is from 0.5 metres to 1.5 metres.
2. In murky water conditions, the visual distance will be dramatically reduced.



DVR Function (Optional)



1. DVR Power Indicator Light: Lights On For Working State
2. Record/Play: Record/Stop Record
3. Replay: Replay
4. Power for the DVR: On/Off
5. Up A: Turn Up
6. Left < : Turn Left
7. Menu: Menu Select Key
8. Right > : Turn Right
9. Zoom-
10. -Downv: Turn Down
11. Zoom+
12. SD Connector: Insert the SD Card

TROUBLESHOOTING GUIDE

Problem	Cause
No display (black screen)	1. Connect the cables to the right polarity. 2. Replace fuse. 3. Unit damage.
No picture	1. No video signal. 2. Connect cable through short circuit or open circuit. 3. Unit damage.
No colour	1. No matching colour signal system. 2. Weak input video signal. 3. Unit damage.
Slant stripes	Battery power running out
White screen when connecting the power	Disconnect the power input and power output

RECHARGEABLE BATTERY

Pay attention to the rechargeable battery!

1. According to the physical properties of the battery, whether the battery is in the use state or not, it should be charged at least once a month, otherwise it may be easily damaged.
2. If the machine has not been used for five consecutive months, the machine must be used with electricity for five minutes first. Otherwise, the machine may be easily damaged.

FUSE

1. If power supply short circuits, fuses will burn off.
2. Don't pull out power cord when charging; this will lead to a damage fuse. Turn off the monitor first before pulling out the power.
3. Replace fuse regularly.

SPECIFICATIONS

Images Sensors	1/3" COLOR CMOS	1/4"COLOR CCD	1/3" COLOR CCD	1/3" B/W CCD	1/4" COLOR CCD
Specification	Ov7949	SHARP	SONY	SONY	SONY
TV System	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC
Effective Pixels	500x582/500x496	512x582/515x492	768x494/811x508	500x582/510x492	500x582/510x492
Sensing Area(mm)	4.9x3.7	3.6 x 2.7	4.9x3.7	4.9x3.7	3.6x2.7
Resolution(TV Lines)	380	420	520	420	420
Horizontal Sync. Frequency(KHZ)	15.625/15.734	15.625/15.734	15.625/15.734	15.625/15.734	15.625/15.734
Vertical Sync. Frequency(Hz)	50/60	50/60	50/60	50/60	50/60
Video Output	75 Ohm	75 Ohm	75 Ohm	75 Ohm	75 Ohm
S/N ratio	Better than 45dB	Better than 45dB	Better than 45dB	Better than 48dB	Better than 48dB
Gamma Consumption:	0.45	0.45	0.45	0.45	0.45
Lens	6mm	3.6mm	4.3mm	3.6mm	3.6mm
Lens Angle(Deg.)	62	92	86	92	92
Current Consumption(mA)	250MA	300MA	300MA	300MA	300MA
Power Supply(DCV)	12	12	12	12	12
IR Lads	12Leds	12Leds	12Leds	12Leds	12Leds
Minimum Illumination	3Lux/F2.0	0.8 Lux/ F1.2	0.5Luy F1.2	0.05 Lux/ F1.2	0.05 Lux/ F1.2
Underwater visual distance (M)	1-3	1-3	1-3	1-3	1-3
IP rating	4kg/cm2	4kg/cm2	4kg/cm2	4kg/cm2	4kg/cm2
Operating Temperature(Deg. $^{\circ}$ C)	-20- +75 (RH95% Max.)	-20—+75 (RH95% Max.)	-20-+75 (RH95% Max.)	-20—+75 (RH95% Max.)	-20-+75 (RH95% Max.)
Storage Temperature(DegX)	-40—+85 (RH95% Max.)	-40—+85 (RH95% Max.)	-40—+85 (RH95% Max.)	-40 —+85 (RH95% Max.)	-40-+85 (RH95% Max.)

LCD COLOR MONITOR SPECIFICATIONS

DISPLAY(inch)	7"
SYSTEM	PAL/NTSC
LCD BRAND	HANNSTAR/INNOLUX/TIANMA
PIXELS	480*RGB*234
VIEWING ANGLE ()	65/65/40/65
BRIGHTNESS (cd/m2)	200
DIMESION (mm)	189*122*24
NET WEIGHT (g)	425
VIDEO	1/2VIDEO INPUT\1 VIDEO OUTPUT
AUDIO	-
POWER SUPPLY	12V INPUT/12V OUTPUT
POWER CONSUMPTION	6W+2W
MENU LANGUAGES	ICON ENGLISH
MODE FUNCTION	UP/DOWN/LEFT/RIGHT REVERSE
EXT. TERMINAL	AUDIO/POWER INPUT/POWER OUTPUT/VIDEO RCA
WORKING TEMPERATURE CO	-10-+50
STORAGE TEMPERATURE CO	-20-+60



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.



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