



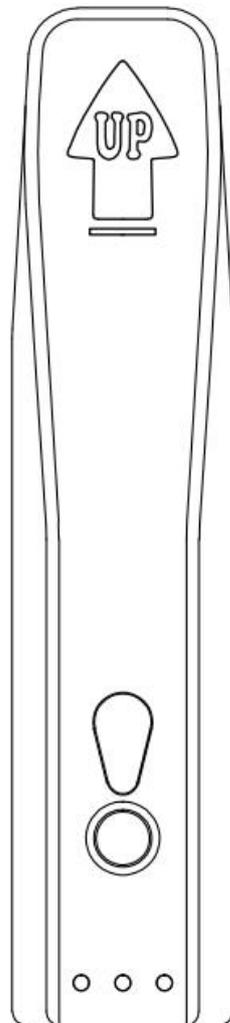
AIS MOB DYA 530



Personal AIS Man Overboard Beacon

DYA530

User Manual



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1. GENERAL

1.1 Disclaimer

All content of this manual and appendices, including future upgrades and modifications, is copyrighted by our company. The content, whether original or revised, is strictly prohibited from being copied or transplanted in whole or in part, and is prohibited for use beyond the scope of the manual itself.

We reserve the right to change, modify, or delete content in the future without prior notice and assume no responsibility for any modifications made.

This manual contains information for the correct use and maintenance of the product. Please read this manual thoroughly before using the product.

1.2 Important Precautions

Do not throw this product into fire, as it may cause an explosion.

Do not discard this product arbitrarily to avoid environmental pollution.

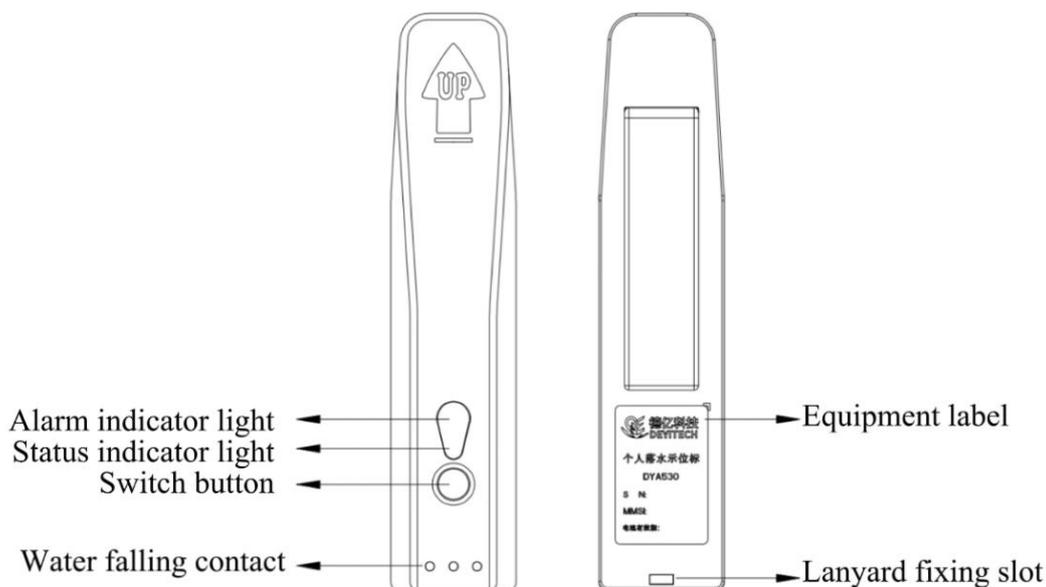
This product uses a disposable battery. The battery must not be charged, otherwise it may explode or cause an accident.

If the battery is dead, please contact our company for replacement in time.

2. DEVICE SPECIFICATIONS

Main Parameters		
VHF Parameters	Antenna Assembly	Built-in antenna
	Transmission Frequency	AIS channel 1: 161.975MHz AIS channel 2: 162.025MHz
	Coverage Range	Typical 4 nautical miles (receiving antenna 10m above sea level)
	Output Power	2W (33±1.5dBm)
Positioning Module	Positioning Mode	GPS/BD
	Positioning Accuracy	<5 meters (CEP50)
Battery Parameters	Battery Capacity	6V/1600mAh
	Rechargeable	No
	Operating Time	More than 72 hours after activation
	Battery Life	5 years
Environmental Parameters	Operating Temperature	-20°C to +55°C
	Storage Temperature	-30°C to +70°C
	Waterproof Rating	IP67
Physical Parameters	Dimensions	125.8mm × 27.8mm × 34mm
	Weight	88g

3. PRODUCT INTRODUCTION



The device automatically activates and alarms when the water contact is immersed.

Power On:

Long press the power key until the status indicator lights up red, then release the button. The device will enter working mode.

Power Off:

Press and release the power key three times within 5 seconds. The alarm indicator and status indicator will both light up and then turn off. The device will power down.

4. BATTERY LEVEL AND INDICATORS

After entering working mode or test mode, long press the power key for more than 3 seconds again, then release. The status indicator will light up showing the battery level:

- ◆ High battery level (>70%): Green light for 3-5 seconds
- ◆ Medium battery level (50%-70%): Blue light for 3-5 seconds
- ◆ Low battery level (<50%): Red light for 3-5 seconds

Note: In low battery state, after the device enters working mode or test mode, the status indicator flashes white once every 3 seconds, indicating the device has low battery.

4.1 Working Mode:

Default mode after power on. The alarm indicator flashes white once per second.

4.1.1 Standby:

Device has acquired positioning: Status indicator flashes green once every 10 seconds.

Device has not acquired positioning: Status indicator flashes red once every 10 seconds.

4.1.2 Transmitting:

Device has acquired positioning: Status indicator flashes green continuously and rapidly.

Device has not acquired positioning: Status indicator flashes red continuously and rapidly.

4.2 Test Mode:

Long press the power key until the status indicator lights up red, continue holding until the indicator changes from red to blue, then release. The device enters test mode. The alarm indicator flashes white once every 10 seconds.

4.2.1 Standby:

Device has acquired positioning: Status indicator alternates between green and blue once every 10 seconds.

Device has not acquired positioning: Status indicator alternates between red and blue once every 10 seconds.

4.2.2 Transmitting:

Device has acquired positioning: Status indicator alternates between green and blue continuously and rapidly.

Device has not acquired positioning: Status indicator alternates between red and blue continuously and rapidly.

5. USAGE METHOD

5.1 Place the device with the "UP" side facing outward and upward.

5.2 Thread the device's lanyard through the life jacket webbing, tie a knot, then fasten the device's buckle into the webbing to secure it.

6. MAINTENANCE

The device requires minimal maintenance during use but should undergo routine inspections. Perform a reliability check every three months and a thorough comprehensive inspection annually.

6.1 Store the device in a dry, ventilated area. Avoid damp, corrosive, flammable, or explosive environments.

6.2 Check if the device's battery level meets usage requirements. Avoid using the device with low battery.

6.3 Check for any looseness or gaps around the device.

6.4 Check if the housing is damaged to avoid water ingress.

Only use the device after verifying it is error-free. If any problems are found, please contact our company promptly. Non-professionals are prohibited from repairing this device.

7. PACKING LIST

Name	Quantity	Unit
AIS Personal Man Overboard Beacon	1	Unit
Lanyard	1	Piece
Product User Manual	1	Sheet
Certificate of Conformity	1	Sheet

Note: The lanyard is used to connect and secure the device to the life jacket.