

AI CCTV SYSTEM

Make Ship Smarter, Safer, Greener

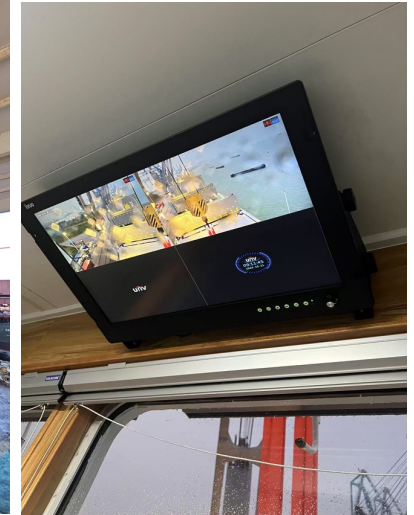


AI POWERED MARINE CCTV SYSTEM



◆ System Introduction

- Online monitoring of ship operation, equipment operation and personnel behavior in all key areas of the ship.
- Support remote camera operation, zooming, steering, talking, etc., and support playback for easy viewing and analysis.
- Simultaneously provide intelligent image analysis, collect alarm points (smoking, no-wearing a helmet, fatigued driving, etc.), and improve supervision efficiency.





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◆ AI Computer Server

The AI computer server is an industrial-grade intelligent analysis device that works with ordinary network cameras. It is easy to deploy, operate, and adapts to different environments.

- ★ Integrate with video decoding, data transmission, data storage, and intelligent algorithms.

- ★ Receive videos from ordinary network cameras, analyzes objects in the videos, Output an alarm upon detection of an abnormal behavior.

- ★ Support H.264 and H.265 video streams, connecting 16 third-party cameras via Onvif and RTSP.

- ★ Dual Gigabit network interfaces enable dual-network IP settings to adapt to different networking environments.

- ★ Lightweight, fanless structure, flexible deployment, suitable for harsh conditions including dusty, oily, hot or very cold environments.





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◆ Smart Functions

- General functions: face detection, Intrusion Detection, and etc;
- Environmental safety: Fire Detection, Water Leak Detection, and etc;
- Personal wearing safety clothing: No Hard Hat Detection, No Work Clothes Detection, and etc;
- Personnel behavior safety: Sleep On Duty Detection, Absence Detection, Smoking Detection, and etc;
- Vehicle safety: Illegally Parked Vehicle, Campus Entrance/Exit, Illegal Fueling Detection, and etc.

DATASHEET	
Face detection	16-channel (Face detection and behavior analysis cannot be enabled simultaneously on the same channel)
Face library capacity	128 face libraries, total 100,000 face images
Work clothes library capacity	8 work clothes libraries, a single storage capacity of 50 images
Storage	
DDR RAM	8GB DDR4
Hard disk	2.5-inch, 1TB SSD included
Alarm capacity	
Alarm image	Max 150,000 alarm images,
Alarm video	Max 150,000 alarm video clips,
Electrical property	
Operating temperature	-40~70°C
Operating humidity	5% to 90% (non-condensing)
Power consumption	≤20W
Weight	≤1.5KG (with SSD)
Dimensions	56.3mm(H)×251.3mm(D)×137.7mm(W)
External interface	
Network interface	2 x 10M/100M/1000M adaptive Ethernet interfaces (RJ45)
USB interface	2 x USB2.0, 1 x USB3.0
Alarm input	4-ch
Alarm output	4-ch
Serial interface	1 x RS-485 (phoenix connector)
Power supply	12V/3A
Channel management	
Protocol	rtsp, onvif
Data Dock	
Websocket mode	√
HTTP/HTTPS mode	√
HTTP/HTTPS live	√
Compliance	
NDAA Compliant	Support



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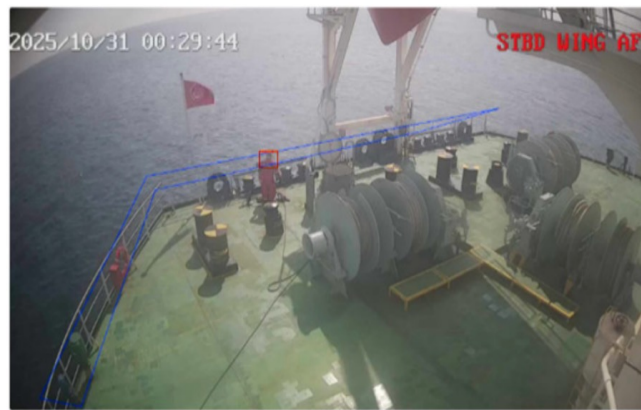
◆ Cases of Behavior Detection and Alarm



Channel: PORT WING AFT

Alarm Type: Enter Area

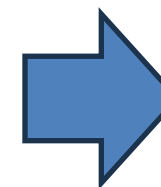
Alarm Time: 2025/10/28 03:29:51



Channel: STBD WING AFT

Alarm Type: Enter Area

Alarm Time: 2025/10/31 00:34:07



Enter Area



Channel: Steering Gear Room

Alarm Type: No Helmet Detection

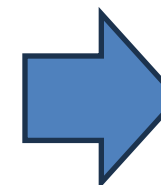
Alarm Time: 2025/10/30 02:15:37



Channel: Engine Room AFT

Alarm Type: No Helmet Detection

Alarm Time: 2025/10/31 01:36:36



No Helmet



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◆ Reference List of Kingfisher CCTV System

No.	Client	Ship Name	Ship Type	Ship Size	CCTV Type	Remarks
1	Shanghai Shenhua Shipping Co., Ltd.	Shen Hua De 16	Chemical Tanker	5000 DWT	AI CCTV	
2	Shanghai Shenhua Shipping Co., Ltd.	Shen Huade 18	Chemical Tanker	6100 DWT	AI CCTV	
3	Cangzhou Huanghua Port Navigation Engineering Co., Ltd.	Cang Hang Jun 1	Dredger	20000 T	AI CCTV	
4	Cangzhou Huanghua Port Navigation Engineering Co., Ltd.	Cang Hang Jun 2	Dredger	20000 T	AI CCTV	
5	Trinity Shipping (H.K.) Co. Ltd.	TAI HE SPRING	Bulk Carrier	8000 DWT	Regular CCTV	
6	Trinity Shipping (H.K.) Co. Ltd.	TY LUCKY	Bulk Carrier	12000 DWT	Regular CCTV	
7	Trinity Shipping (H.K.) Co. Ltd.	TY XURUI	Bulk Carrier	12000 DWT	Regular CCTV	
8	CMG Management LTD	POLY ODYSSEY	Bulk Carrier	178000 DWT	Regular CCTV	
9	CMG Management LTD	POLY WORLD	Bulk Carrier	178000 DWT	Regular CCTV	
10	Shanghai Xiangfan Ship Management Co., Ltd.	Mai Yang	Bulk Carrier	180000 DWT	Regular CCTV	
11	Shanghai Xiangfan Ship Management Co., Ltd.	Yang Fan	Bulk Carrier	180000 DWT	Regular CCTV	
12	Everbright Shipping Information Consulting (Shanghai) Co., Ltd.	ESL DOLPHIN	Bulk Carrier	180000 DWT	AI CCTV	Total 13 vessels
13	Everbright Shipping Information Consulting (Shanghai) Co., Ltd.	Heng Yao 1	Tugboat	600 T	AI CCTV	Total 5 vessels
14	Everbright Shipping Information Consulting (Shanghai) Co., Ltd.	Rong Teng 2	Bulk Carrier	5000 DWT	AI CCTV	Total 3 vessels
15	Everbright Shipping Information Consulting (Shanghai) Co., Ltd.	Heng Rong Sheng Hai	Bulk Carrier	57000 DWT	AI CCTV	Total 8 vessels