

ZS-CH Series

Dual-spectrum image stabilization PTZ camera

Built-in high sensitivity infrared thermal camera which can realize clear infrared images without any light. It is perfect vessel detection in dark night voyage, furthermore, embedded gyroscopic image stabilization system, and presetting accuracy up to 0.05°.



High Accuracy PTZ Structure

Equipped absolute-position encoder, which can insure accurate presetting without self-inspection anytime as never before.



Gyroscopic Image Stabilization System

Embedded gyroscope so ensuring the stable image output anytime even if camera installed on the vessel.



Perfect Software Access Capacity

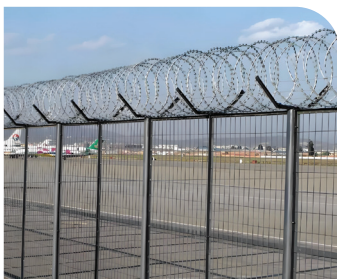
Support kinds of network protocols for easily access third party, API, ONVIF, SDK etc.



Multiple Focal Lengths Using

Thermal image lens type which includes manual or motorized lens to be chosen. The housing space up to 180mm motorized zoom lens.

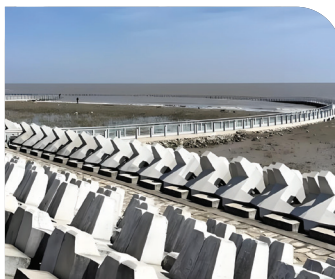
Applications



Perimeter protection



Fire detection



Coastal defense



Marine safety

Specifications

Thermal Module	CH3		CH6	
Detector	VOx Uncooled FPA			
Resolution/Pixel pitch	384x288/12μm		640x512/12μm	
NETD	≤35mK@ 25°C			
Spectral range	8-14μm			
Focus Method	Manual/Motorized(auto focus)			
Focal Length	30-150mm	30-180mm	30-150mm	30-180mm
FOV	8.75°x 6.57°to 1.76°x 1.32°	8.75°x 6.57°to 1.46°x 1.10°	14.59°x 11.69°to 2.93°x 2.35°	14.59°x 11.69°to 2.44°x 1.96°
Image adjustment	Auto/Manual adjustment for contrast ratio & brightness & acutance			
Uniformity correction	Auto/Manual shutter, background correction			

Optical Module

Image Sensor	1/1.8" Progressive Scan CMOS
Resolution	2688×1520
Focal Length&Zoom	10-550mm, 55x optical zoom
FOV	58.4°to 1.1° (wide-narrow)

Image Effect

Thermal image process	AGC, IDE
Color Palette	Optional 11 color palettes(rust, rainbow, white/black, etc.)

Smart Function

VCA	motion detection, cross line, intrusion, area entry and exit
Fire Detection	Support

PTZ

Movement range	Pan:360° continuous; Tilt: -45°~+45°
Presets	200
Power Off Memory	Support
Pan speed	0.01°~80°/s
Tilt speed	0.01°~80°/s
Auto Horizontal Scan	Preset patrol / Auto line scanning & etc

Video and Audio

Video Compression	H.264 / H.265		
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720		
Sub-stream (Visible)	1280*720,640*480,352*288		
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512	1920*1080, 1280*1024, 640*512	
Sub-stream (Thermal)	640*512	640*512	
Audio compression	G.711		

Network

Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP, DHCP
API	ISAPI,SDK, third-party management platform, ONVIF
Common function	Hearbet, password protection, multi-user access control
Security	Support password protection, bonding MAC ID, IP filtration
Simultaneous Live View	10 channels
User/Host level	Up to 9 users, 3 levels: Administrator, Operator, General
Web Browser	Google Kernel Browser, Edge

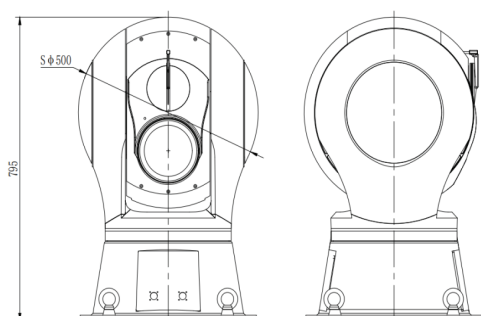
Interface

Alarm	1x ch input, 1x ch output
Audio	1x ch input, 1x ch output
Serial port	1x ch RS485
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet
Storage	Embedded EMMC 16GB

General

Web Client Language	English
Laser ranging or illumination	Optional
Gyroscopes	Optional
Power Supply	DC48V,10A
Power Consumption	<270W(with heater)
Work Temperature/Humidity	-20°C~+60°C(customized -40°C), <90%RH
Storage temperature	-45°C ~ +75°C
Protection	IP66
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection
Dimension	φ500mm×795mm
Weight	<90Kg(with bracket)

Dimension



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