



ZS-CL Series

Dual spectrum image stabilization & high speed PTZ camera

Built-in high sensitivity infrared thermal camera which can realize clear infrared images without any lights, perfect dark night voyage, embedded gyroscopic sensor so ensuring image stabilization anytime.



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 or vehicle.



Support Customized Requirements

Optional laser ranging or illumination for kinds of customizations.



Multiple Focal Lengths Using

Thermal image lens type which includes manual or motorized lens to be choosed. The housing space up to 75mm motorized lens.

Applications



Vehicle mounted detection



Fire protection



Coastal defense



Patrol vessel detection

Specifications

Thermal Module	CL3		CL6	
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	50mm	75mm	50mm	75mm
FOV	5.2°x 3.9°	3.5°x 2.6°	8.7°x 7°	5.8°x 4.6°
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 x 1520
Focal Length&Zoom	6.6-264mm, 40x optical zoom
FOV	57.62°to 2.95° (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: -60°~+90°
Presets	200
Power Off Memory	Support
Pan speed	0.05°~250°/s
Tilt speed	0.05°~180°/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

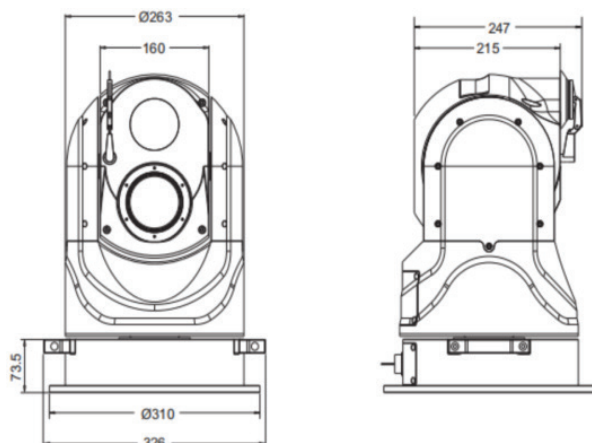
Interface

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
Wiper	Optional
Power Supply	DC24V,5A
Power Consumption	<60W
Work Temperature/ Humidity	-20°C~+60°C, <90%RH
Storage temperature	-45°C ~ +75°C
Protection	IP66
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection
Dimension	φ310mmx446mm
Weight	<17Kg

Dimension



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