



Multi-Sensor PTZ Camera

Control every circumstance with AI-powered image fusion — on or off the water

Beyond the Visible.

The Stravion Multi-Sensor PTZ Camera harnesses light that is both visible and invisible to the human eye to capture imagery beyond conventional cameras and deliver critical context and detail in demanding maritime applications.

The individual or simultaneously combined powers of crisp thermal imaging, a high definition visible camera and advanced AI allow you to pinpoint and ID objects and obstacles out of harm's way, and interrogate and track potential threats at range.

This extraordinary synthesis of advanced camera technology and intelligence in a sleek, compact, and environmentally-adapted package delivers a formidable maritime situational awareness solution so you can navigate safely in the darkest of nights.

- Infrared Thermal Camera
- HD Visible Zoom with IR Illumination
- Multi-Camera Fusion Overlay
- Intelligent Threat Detection
- Gyro-Stabilization



AI Image Recognition

Automatically identifies and classifies objects, people, and vehicles in real-time for instant situational awareness.



Fewer False Alarms

Intelligent filtering distinguishes genuine threats from environmental factors, reducing unnecessary alerts.



Thermal Infrared Image

High-resolution heat signature detection reveals hidden targets invisible to conventional optics.



For more, visit us
at stravion.io

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Thermal Module

Image Sensor	Vanadium Oxide uncooled focal plane Arrays
Max Resolution	320 x 240
Lens Type	Fixed-focal (Thermal Lens)
Focal Length	3.7mm
Aperture	F1.0
Field of View	60.0° (Horizontal) / 47.8° (Vertical)
Pixel Size	12um
Wavelength	8 – 14um
NETD (Sensitivity)	NETD < 50 mk

Optical Module

Image Sensor	1/2.8" CMOS image sensor
Max Resolution	1945 (H) x 1097 (V) = 2,133,665 (Pixels)
Lens Type	30X Optical Zoom Lens , Auto (Continue / Interval / Zoom Trigger / One Push), Manual Focus
Focal Length	f = 4.3 – 129mm
Aperture	F1.6 – F4.7
Iris Type	DC-iris
Field of View	72.3°~ 2.9° (Horizontal) 43.3°~ 1.7° (Vertical) 81.0° ~ 3.3° (Diagonal)
Shutter Time	1/30(1/25)s to 1/20000s
HDR	120dB
Day/Night	Yes
Removable IR-cut Filter	Yes
IR Illuminators	Built-in IR Illuminators up to 100 meters
Minimum Illumination	0.01 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.008 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.003 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0009 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON

Camera Features

Pan Speed	Manual Approx. 0.1°/s – 120°/s 8 Steps, Preset Approx. 1°/s – 120°/s, Alarm Trigger Speed 120°/s
Pan Range	360° endless
Tilt Speed	Manual Approx. 0.1°/s – 120°/s 8 Steps, Preset Approx. 1°/s – 120°/s, Alarm Trigger Speed 120°/s
Tilt Range	-5° – +185°
Preset Locations	256 preset locations
Pan/Tilt/Zoom	8x Digital Zoom
Gyro Stabilized	Yes
Storage	Circular recording to Micro SD/SDHC/SDXC card (SD card is not included)

Video

Video Compression	H.265 / H.264 / MJPEG
Max Frame Rate	Visible: Normal mode: 60Hz: 60 FPS @ 1920 x 1080 50Hz: 50 FPS @ 1920 x 1080 WDR mode: 60Hz: 30 FPS @ 1920 x 1080 50Hz: 25 FPS @ 1920 x 1080 Thermal: 60Hz: 30 FPS @ 720 x 480 50Hz: 25 FPS @ 720 x 480
Max Streams	4
S/N Ratio	More than 50dB (AGC off)
Dynamic Range	Up to 120dB (by HDR mode, 2 shutter line interleave)

Network

Users	10 user accounts available
Security	Digest HTTP authentication, RTSP authentication, DDNS via HTTPS
Protocols	IPv4, TCP, UDP, HTTP, HTTPS, QoS, NTP, DDNS, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP
Interface	10/100 Mbps Base-T, RJ-45
ONVIF	Profile G, S, T supported

AI Analytics

Detected Zone	up to 8 zones
Vision Object Analytics	Object Detection: People, Vehicle

General

Connectors	DC 12V power input RJ-45 cable connector for 10/100 Mbps PoE network connection
Power Input	DC24V (DC21V~35V) , PoE+ (802.at)
Power Consumption	DC24V, 13.5 W (Still, Illumination OFF) DC24V, 16.6 W (Motor Drive & Illumination OFF) DC24V, 26.7 W (Motor Drive & Illumination On) PoE+, 14.1 W (Still, Illumination OFF) PoE+, 16.9 W (Motor Drive & Illumination OFF) PoE+, 26.6 W (Motor Drive & Illumination On)
Dimensions	37 x 18cm (14.5"x7.2")
Weight	5.9Kg (13Lbs)
Certifications	CE / FCC / UKCA / RCM / IK10 / IP66
Operating Temperature	Starting Temperature - 25°C – + 55°C (- 13°F – + 131°F) Operating Temperature - 25°C – + 60°C (- 13°F – + 140°F)
Humidity	10% – 90%
Casing Material	Aluminum alloy



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Works in Extreme Darkness

No IR LED required with concealment at its core.

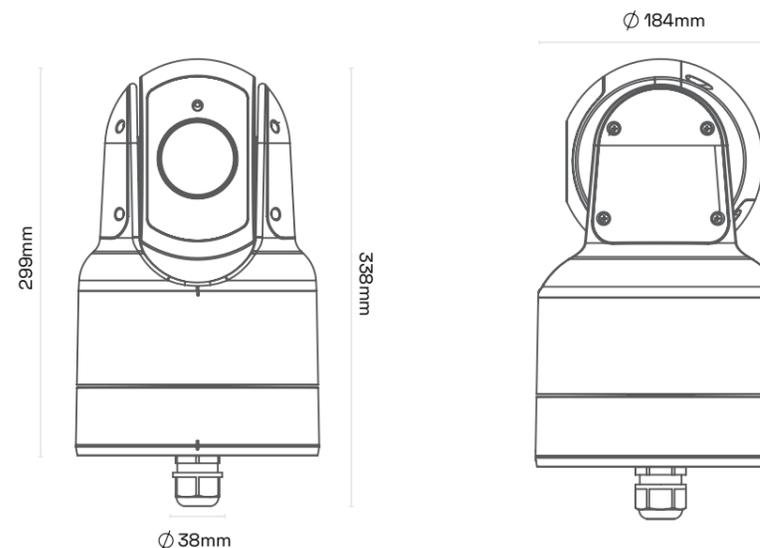
Optimized Imagery

Exclusive algorithm for better results.

RGB Supported

For RGB image requirements.

Mechanical Line Art



Vision beyond the visible.™



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Visit us at stravion.io to learn how you can harness the power of AI integrated with advanced day & night vision technology powered by the next generation of intelligent vision systems.

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