PIKO / AI IP CAMERA

Piko 4K Siren/Strobe AI IP Camera

An active deterrence camera that combines Ultra HD 4K video with a high-output speaker and strobe, so operators can respond to events as they happen.



4K AT 30FPS | SIREN & STROBE DETERRENCE | IP66 / IK10 | NDAA COMPLIANT

OVERVIEW

The Piko 4K Siren/Strobe AI IP Camera is an active deterrence surveillance solution designed to not only detect threats, but respond to them in real time. Combining Ultra HD 4K video with integrated audio and visual warning capabilities, the camera enables operators to proactively prevent incidents rather than simply record them.

With PikoANALYTICS and deep learning-based object and people tracking, the camera can accurately identify and classify events such as intrusion, loitering, and unauthorized access. When a defined rule or behavior is triggered, the system can automatically activate built-in deterrents, including a high-output speaker with text-to-speech (TTS) audio warnings and a powerful strobe/flashlight, helping to stop incidents as they occur.

The motorized varifocal lens provides flexible coverage for wide-area monitoring or focused perimeter protection, while Smart Bitrate Control and multi-streaming capabilities optimize bandwidth and storage usage. With support for standard network protocols and ONVIF compliance, the camera integrates seamlessly into existing security environments.

Built for demanding outdoor deployments, the camera features a rugged aluminum housing with IP66 weather protection and IK10 impact resistance, along with extended operating temperature support. This makes it well-suited for high-security applications such as critical infrastructure, commercial perimeters, remote facilities, and areas requiring active deterrence and real-time response.

CORE FEATURES

AUDIO-VISUAL DETERRENCE

- High-decibel programmable siren output
- Multi-pattern LED strobe (flashing, pulsing, continuous)
- Customizable alert tones and durations
- Text-to-speech (TTS) audio warnings

AI & ANALYTICS

- Object classification (Person, Vehicle, Bicycle, etc.)
- Intrusion and line-crossing detection
- Crowding, direction, and tailgating detection
- Advanced metadata output (JSON/XML)

PERFORMANCE OPTIMIZATION

- Smart Bitrate Control
- Region of Interest (ROI)
- 3D Digital Noise Reduction

TECHNICAL SPECIFICATIONS

IMAGE & CAMERA	
Image Sensor	1/2.8” SONY STARVIS CMOS
Sensor Resolution	8MP (3840 × 2160)
Shutter Speed	1/30 ~ 1/32,000 sec
Day / Night	True Day/Night (IR-cut filter)
Minimum Illumination	0.09 Lux (Color) / 0 Lux (IR On)
Wide Dynamic Range	True WDR
Lens Type	Motorized Varifocal
Focal Length	2.7 – 13.5mm
Field of View	Horizontal: 107° (Wide) to 33° (Tele)
Iris	P-Iris

INFRARED (IR)	
IR LEDs	6 × High Power LEDs
IR Distance	Up to 40m

VIDEO	
Compression	H.265, H.264, MJPEG
Max Resolution	3840 × 2160
Frame Rate	Up to 30fps
Bitrate	100 Kbps – 25 Mbps
Bitrate Control	CBR / VBR
Streaming	Multi-stream
Image Enhancements	3D-DNR, ROI, Smart Bitrate
Image Settings	Exposure, White Balance, Sharpness, Flip/Mirror

AUDIO	
Audio Streaming	Two-way
Compression	G.711 u-law, AAC-LC
Input	Built-in microphone
Output	Built-in speaker, max 14W / 108 dB

NETWORK & INTEGRATION	
Ethernet	10 / 100 / 1000 Base-T
Protocols	TCP/IP, RTSP, HTTP, HTTPS, FTP, SMTP, SNMP
RTSP	Supported
Security	SSL, IP filtering, 802.1x, Digest Authentication
Integration	ONVIF Profile S/T/M, CGI API
Edge Storage	microSD / microSDHC / microSDXC

POWER & CONNECTIVITY	
Power Input	Ultra PoE (IEEE 802.3bt) / DC12V
Power Consumption	Max 46.4W (PoE)
Connectivity	RJ-45 (Gigabit Ethernet)

ENVIRONMENTAL	
Operating Temperature	-30°C to 55°C
Humidity	10–90% RH (non-condensing)
Weather Rating	IP66
Impact Protection	IK10

GENERAL	
Material	Aluminum die-cast
Dimensions	260 × 259 × 156 mm
Weight	3.7 kg
Language	English

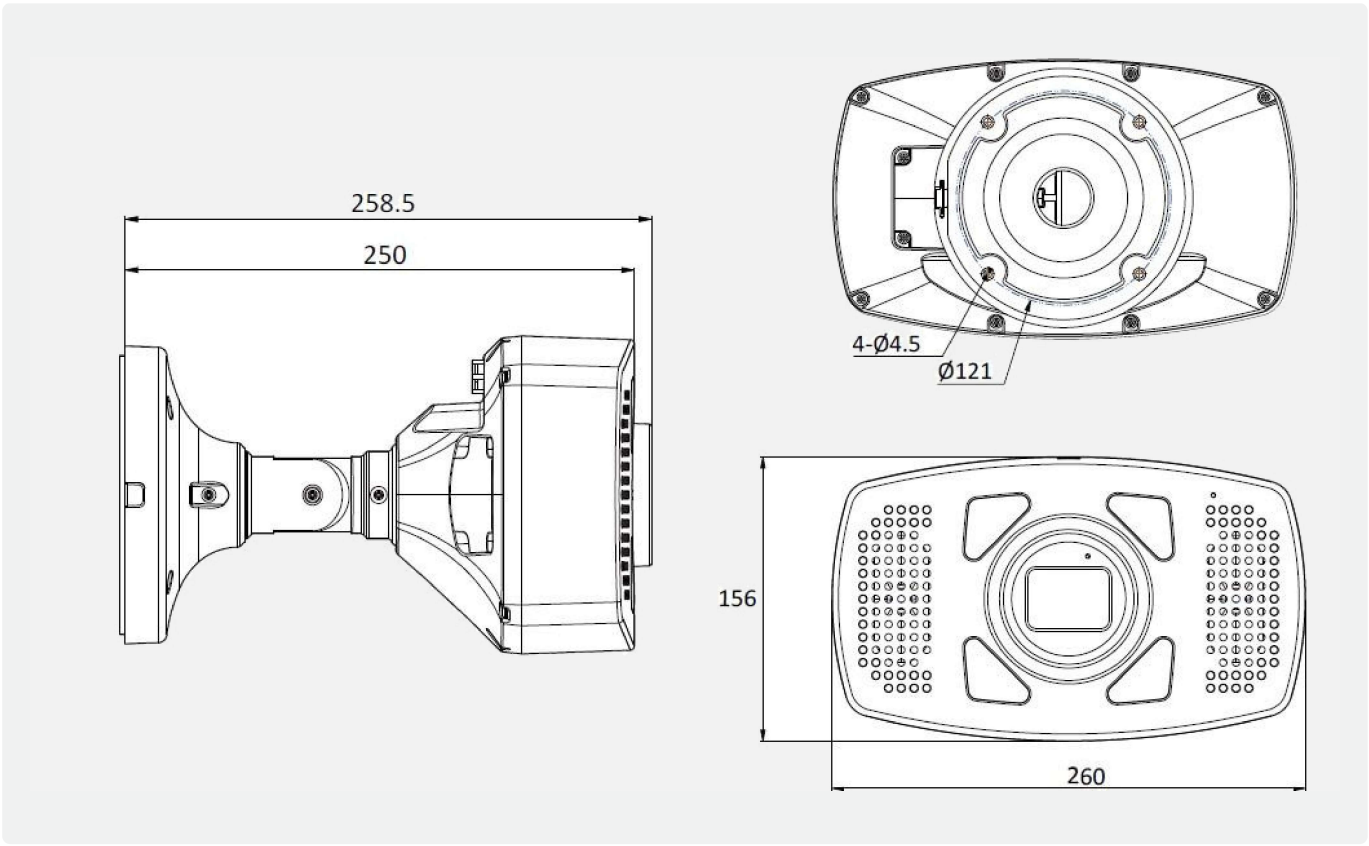
COMPLIANCE	
Certifications	FCC, CE
Procurement Compliance	NDAA Compliant

OPTIONAL PIKOANALYTICS

PikoANALYTICS is an optional analytics package built on an advanced tracking algorithm with a rich library of detection behaviors. Intrusion detection zones and rules, tamper detection and deep-learning object tracking are supported as standard.

CAPABILITY	WHAT IT DOES
Analytics Engine	PikoANALYTICS advanced tracking algorithm with rich library of detection behaviors.
Intrusion Detection	Detection of the presence of an object — rules and zones (multi-segment polygons and lines) as standard.
Detection Behaviors	Area Enter/Exit, Appear, Disappear, Stop, Direction, Crowding, Tailgating.
Object Tracking	Deep learning based object identification (Person, Cyclist, Car, Van, Truck, Motorcycle, Bicycle, Bag) removes false object detection.
People Tracking	Deep learning based people identification and tracking.
Logical Rules	Extends standard rules to allow various combinations of the inputs.
Counting & Lines	High accuracy people and vehicle counting, 20 counters in total.
Tamper Detection	Supported as standard. Detects coverage of the camera's view.
Metadata	JSON and plain XML containing event information and tracked-object information — bounding box, tail history, and object attributes (type and color).

DIMENSIONS



UNIT: MM	
Width	260 mm
Height	156 mm
Depth	259 mm
Weight	3.7 kg
Housing Material	Aluminum die-cast

MOUNTING & COMPATIBLE PARTS

The camera ships with an integrated wall arm, so no separate wall bracket is required. Corner and pole installations add an adapter plate behind that arm; a junction box mounts the camera to a surface and houses the cable termination.

MOUNTING TYPE	WHAT PARTS TO ORDER
Wall	No accessory required — integrated wall arm
Corner	**PC001** (Corner Mount Adapter Plate)
Pole	**PP001** (Pole Mount Adapter Plate)
Surface	**PJC09** (Junction Box)

COMPATIBLE MOUNTS



PC001

145 × 200 mm (5.7 × 7.9 in) · 1.3 kg

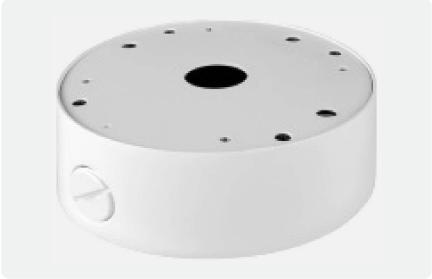
Corner mount adapter plate, lets the camera arm attach to a building corner.



PP001

139.5 × 200 mm (5.5 × 7.9 in) · 700 g

Pole mount adapter plate, straps or bolts the camera arm to a round pole.



PJC09

150 × 50 mm (5.9 × 2.0 in) · 877 g

Junction box; houses cable connections and splices and mounts the camera to a wall or ceiling surface.

Weatherproof when used with the PW10 wall mount bracket.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ONBOARD STORAGE
P-4K-T-SIREN-V2	Piko 4K Siren/Strobe AI IP Camera, motorized varifocal 2.7–13.5mm	microSD / microSDHC / microSDXC
PE-4K-T-SIREN-1TB-V2	Piko 4K Siren/Strobe AI IP Camera, PikoEDGE model — runs the Piko VMS onboard the chipset	1 TB microSD included

PE = PIKOEDGE A PE part number is the PikoEDGE version of the camera: it runs the Piko VMS onboard the chipset and ships with a 1TB SD card included. A P part number is the standard camera, with microSD storage supported but not supplied.

COMPLIANCE

- FCC
- CE
- NDAA Compliant
- ONVIF Profile S/T/M, CGI API

Contact your CSG account manager for pricing, availability and design support.

Document [Rev. 0.1] · [September 2026]. Specifications subject to change without notice.