

PIKO / AI IP CAMERA

Piko 10MP Dual Lens Camera

A two-sensor camera covering two directions from one mounting point, recorded and managed as a single device for external applications.

2 × 5MP AT 30FPS
TWO DIRECTIONS, ONE DEVICE
IP67 / IK10
NDAA COMPLIANT


OVERVIEW

The Piko 10MP Dual Lens Camera covers two directions from a single mounting point. Two 5MP sensors record 2592 × 1944 each at up to 30 frames per second, for 10 megapixels of total coverage on one cable run and one device licence.

Each sensor carries a 2.8mm F1.8 lens covering approximately 102.4° horizontally, so a single unit watches both approaches to a corner, both directions along a corridor, or an entrance and the ground in front of it. Smart bitrate control, region of interest and 3D noise reduction keep bandwidth and storage down across both channels.

Two high-power IR LEDs per sensor illuminate to 25 metres, and true 120dB wide dynamic range holds detail against direct sun and headlights. The white aluminium die-cast housing is IP67 weatherproof and IK10 vandal resistant, and operates from -30°C to 60°C. Power arrives over PoE (IEEE 802.3af).

With ONVIF Profile S/T/M support the camera integrates into existing video management systems. At 139mm across it suits building corners, corridors, drive-throughs and covered entrances where two views are needed from one position.

CORE FEATURES

IMAGING & VIDEO

- 2 × 5MP (10MP) at up to 30fps
- True WDR, 120 dB or above
- H.265 / H.264 / MJPEG compression
- Fixed 2.8mm F1.8 lens per sensor

AI & ANALYTICS

- Object classification (Person, Vehicle, Bicycle, etc.)
- Intrusion and line-crossing detection
- Dwell, 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	2 × SONY STARVIS EXMOR 1/2.8" 5MP CMOS
Sensor Resolution	10MP total (2 × 2592 × 1944)
Shutter Speed	1/30 ~ 1/32,000 sec (Auto / Manual, Anti-Flicker, Slow Shutter)
Day / Night	True Day/Night (IR-cut filter)
Minimum Illumination	0.13 Lux (Color) / 0 Lux (IR On)
Wide Dynamic Range	True WDR, 120 dB or above
Lens Type	Fixed, two sensors
Focal Length	2.8mm, F1.8 per sensor
Field of View	Horizontal: approx. 102.4° / Vertical: approx. 77.4° per sensor
Iris	Auto Exposure

INFRARED (IR)

IR LEDs	2 × High Power IR LEDs per sensor
IR Distance	Up to 25m

VIDEO

Compression	H.265, H.264, MJPEG
Max Resolution	2592 × 1944 per sensor
Frame Rate	Up to 30fps per sensor
Bitrate	100 Kbps – 25 Mbps
Bitrate Control	Multi-streaming CBR / VBR
Streaming	2592 × 1944/30 + 720p/30 with H.264, H.265 + MJPEG
Image Enhancements	3D-DNR, ROI, Smart Bitrate, 16-zone privacy mask
Image Settings	Exposure, White Balance, Sharpness, Flip / Mirror

AUDIO

Audio Streaming	Two-way
Compression	G.711 u-law 8kHz, AAC-LC 48Kbps at 8kHz
Input	Built-in microphone (3 kΩ input impedance)
Output	Line Out (1Vrms max)

NETWORK & INTEGRATION

Ethernet	10 / 100 Base-T
Protocols	TCP/IP, UDP, RTP, RTSP, NTP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMP v1/v2/v3, UPnP, RTCP, SSH, ONVIF
RTSP	Supported
Security	HTTPS (SSL), IP filtering, 802.1x, Digest Authentication
Integration	ONVIF Profile S/T/M, CGI API
Edge Storage	1 × microSD / microSDHC / microSDXC

POWER & CONNECTIVITY

Power Input	PoE (IEEE 802.3af) / DC12V
Power Consumption	Max 11.5W (PoE) / 9.9W (DC12V)
Connectivity	RJ-45, 1 × Alarm In / 1 × Alarm Out

ENVIRONMENTAL

Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Humidity	10–90% RH (non-condensing)
Weather Rating	IP67
Impact Protection	IK10

GENERAL

Material	Aluminum die-cast, white
Dimensions	Ø139 × 74 mm (79.5 mm overall)
Weight	1.0 kg
Language	English

COMPLIANCE

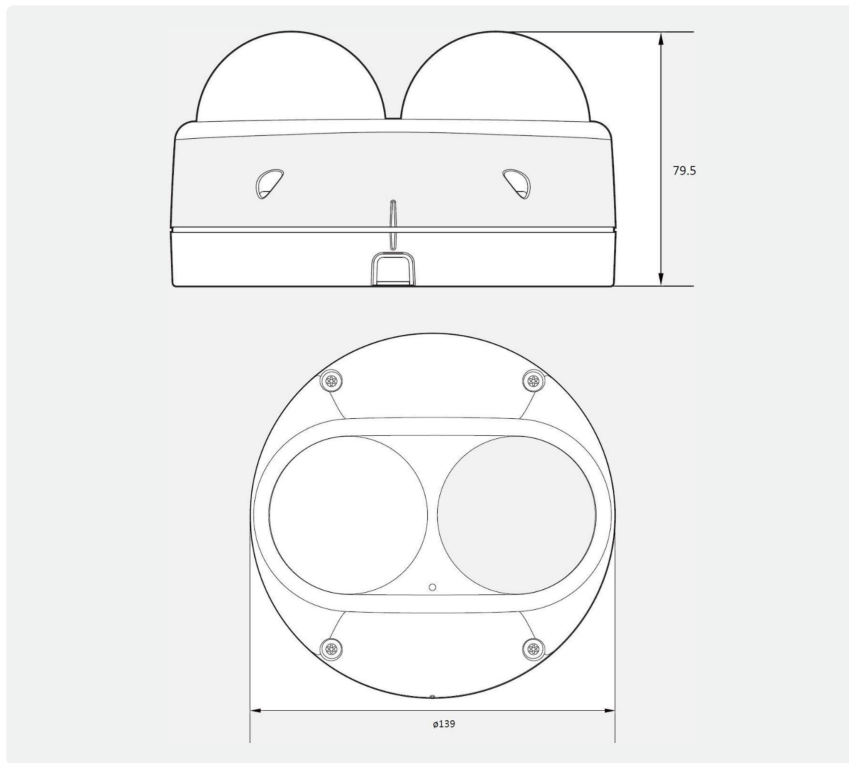
Certifications	FCC, CE
Procurement Compliance	NDAA Compliant

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. On this model analytics run on one channel at a time, selectable between the two sensors.

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

Diameter	ø139 mm
Height	74 mm (79.5 mm overall, including dome bubbles)
Weight	1.0 kg
Housing Material	Aluminum die-cast, white

MOUNTING & COMPATIBLE PARTS

PW08 is the base wall bracket for this camera; corner and pole installations add an adapter plate beneath it. A direct-mount junction box replaces the bracket where the camera sits flush on a surface.

MOUNTING TYPE	WHAT PARTS TO ORDER
Corner	PC001 (Corner Mount Adapter Plate) + PW08 (Wall Mount)
Pole	PP001 (Pole Mount Adapter Plate) + PW08 (Wall Mount)
Pendant	PC08 (Pendant Ceiling Mount) Use PC08 PT (Pendant Adapter Cap) where a low-profile cap is required in place of the pipe arm
Wall	PW08 (Wall Mount) Add PJC09 (Junction Box, requires PW08) or PGP02 (Gang Plate) for cable termination
Surface	PJC09 (Junction Box, direct camera mount)

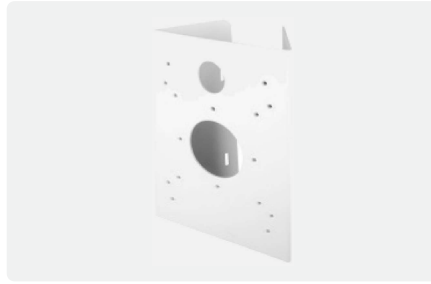
COMPATIBLE MOUNTS



PC001

145 × 200 mm (5.7 × 7.9 in) · 1.3 kg

Corner mount adapter plate, lets a wall/corner bracket attach to a building corner.



PP001

139.5 × 200 mm (5.5 × 7.9 in) · 700 g

Pole mount adapter plate, straps or bolts a bracket to a round pole.



PW08

146.1 × 144 × 191.8 mm (5.8 × 5.7 × 7.6 in) · 790 g

Wall mount bracket sized for the dual lens camera.



PC08

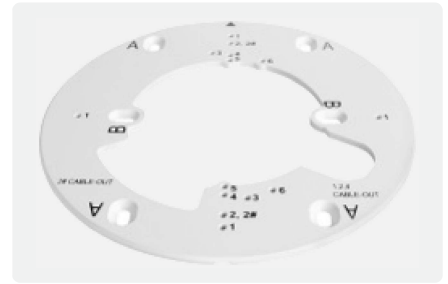
Pendant ceiling mount with cable routed through the arm.



PC08 PT

NPT 1½" thread

Low-profile pendant adapter cap for the dual lens camera; used in place of the pipe arm.



PGP02

Junction/gang box adapter plate, lets the mount attach to the PJC09 junction box.

Not weatherproof



PJC09

150 × 50 mm (5.9 × 2.0 in) · 877 g

Junction box; houses cable connections and splices. Pairs with PW08, or connects directly to the camera for surface mounting.

Weatherproof when used with the PW10 wall mount bracket.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ONBOARD STORAGE
P-10MP-DS-V2	Piko 10MP Dual Lens Camera, fixed 2.8mm lenses	1 × microSD (not included)
PE-10MP-DS-1TB-V2	Piko 10MP Dual Lens 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.

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