PIKO / AI IP CAMERA

Piko 10MP Varifocal Dual Lens Camera

Two 5MP sensors in one compact IR dome, each on a motorized 2.8–8mm zoom lens, so a single drop covers two directions and both views can be framed remotely.

2 × 5MP (10MP) | MOTORIZED 2.8–8MM | IP67 / IK10 | NDAA COMPLIANT

OVERVIEW

The Piko 10MP Varifocal Dual Lens Camera puts two independent 5MP sensors behind a single mini dome, each recording at 2592 × 1944. One device, one cable run and one license cover two fields of view — a corridor and a doorway, a lane in and a lane out, or a drive approach and the walk-up beside it.

Both sensors run motorized 2.8–8mm zoom and focus lenses, giving 88.4° to 41.4° of horizontal coverage per channel and letting an installer frame and focus each view from the browser after the dome is sealed. Four high-power IR LEDs light the scene to 30m, and True WDR rated at 120 dB or above holds detail where the two views face very different lighting.

Deep learning object and people tracking are available on one selectable channel, alongside Piko AI event triggers, alarm in/out and metadata output. Smart Bitrate Control, Region of Interest and independent stream profiles per channel keep bandwidth predictable when both sensors are recording at full resolution.

The aluminum die-cast housing measures Ø152 × 103mm, carries IP67 and IK10 ratings and operates from -22°F to 140°F, so the same camera suits sheltered interiors and exposed exterior corners, entrances and drive lanes.

CORE FEATURES

DUAL SENSOR COVERAGE

- 2 × 5MP sensors, 2592 × 1944 each
- Motorized 2.8–8mm zoom and focus per lens
- 88.4° (wide) to 41.4° (tele) per channel
- 4 × high power IR LEDs to 30m

AI & ANALYTICS

- Deep learning object tracker
- Deep learning people tracker
- One channel, selectable
- Piko AI event triggers with alarm in/out

PERFORMANCE OPTIMIZATION

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

TECHNICAL SPECIFICATIONS

IMAGE & CAMERA	
Image Sensor	2 × 1/2.8” SONY STARVIS EXMOR 5M CMOS
Effective Pixels	2592 (H) × 1944 (V) per sensor
Scanning System	Progressive scanning
Shutter Speed	Auto / Manual: 1/30 ~ 1/32,000 sec, anti-flicker, slow shutter
Day / Night	True Day/Night (removable IR-cut filter)
Minimum Illumination	0.05 Lux (Color) / 0 Lux (IR On)
Wide Dynamic Range	True WDR, 120 dB or above
S/N Ratio	50 dB
Lens Type	Motorized zoom and focus, per sensor
Focal Length	2.8 – 8 mm, F1.6
Field of View	Horizontal: approx. 88.4° (Wide) to 41.4° (Tele)
Iris	Auto Exposure
AGC Control	Auto

INFRARED (IR)	
IR LEDs	4 × High Power IR LEDs
IR Distance	Up to 30m

VIDEO	
Compression	H.265, H.264, MJPEG
Profile	H.264: MP / HP · H.265: MP
Max Resolution	2592 × 1944 per channel
Streaming (CH1)	2592×1944/30 + 720p/30 (H.264 / H.265) + MJPEG
Streaming (CH2)	2592×1944/15 + 720p/15 (H.264 / H.265) + MJPEG
Bitrate	100 Kbps – 25 Mbps
Bitrate Control	Multi-rate CBR / VBR, controllable frame rate and bandwidth
Image Enhancements	3D-DNR, ROI, Smart Bitrate Control
Privacy Mask	16 programmable zones
Image Settings	Exposure, White Balance, Sharpness, Flip/Mirror
Analogue Output	CVBS 1.0V p-p, 4:3, camera selectable (installation only)

AUDIO	
Audio Streaming	Two-way
Compression	G.711 u-law 8KHz
Input	Built-in microphone or line in, 2.4VDC (3mA), 3K Ohm
Output	Line out, max output level 1Vrms

EVENT	
Event Triggers	Motion alarm, temperature critical, DI, Piko AI
Pre / Post Recording	Pre: 1 – 5 sec · Post: 1 – 240 sec
Event Notification	FTP, e-mail, alarm-out, SD card

NETWORK & INTEGRATION	
Ethernet	10 / 100 Base-T
IP	IPv4
Protocols	TCP/IP, UDP, AutoIP, RTP, RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMP v1/v2/v3, UPnP, RTCP, SSH, ONVIF
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 802.3at) / DC12V
Power Consumption	DC12V max 10.8W · PoE max 14.3W
External I/O	1 × Alarm In / 1 × Alarm Out

ENVIRONMENTAL	
Operating Temperature	-22°F to 140°F (-30°C to 50°C)
Humidity	10–90% RH (non-condensing)
Weather Rating	IP67
Impact Protection	IK10

GENERAL	
Material	Aluminum die-cast, white
Dimensions (D × H)	Ø152 × 103 mm
Weight	1.0 kg
Language	English

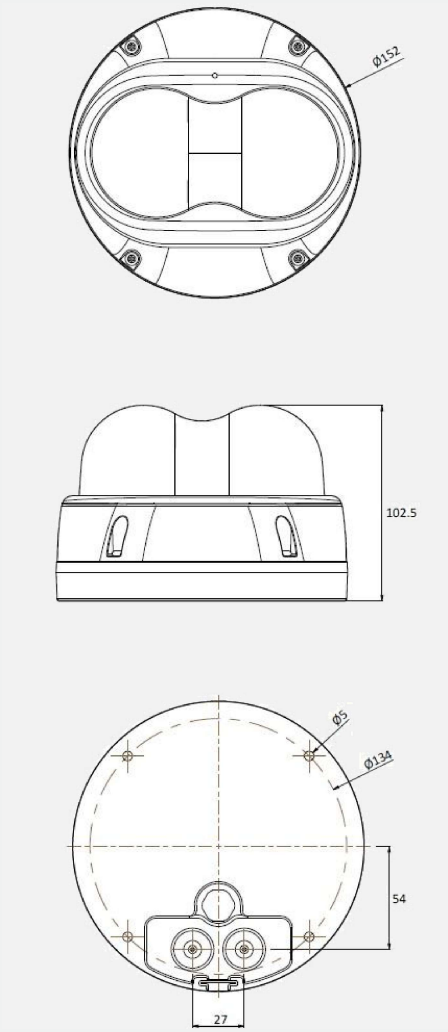
COMPLIANCE	
Certifications	FCC, CE, IP67, IK10
Procurement Compliance	NDAA Compliant

OPTIONAL PIKOANALYTICS

PikoANALYTICS is an optional analytics package built on an advanced tracking algorithm with a rich library of detection behaviors. On this camera it runs on one selectable channel. 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.
Detection Zones & Rules	40 rules and zones (multi-segment polygons and lines) as standard.
Intrusion Detection	Detection of the presence of an object.
Detection Behaviors	Enter, Exit, Appear, Disappear, Stop, Direction, Dwell filter, 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	Ø152 mm
Height	102.5 mm
Mounting Hole Circle	Ø134 mm, 4 × Ø5 mm
Weight	1.0 kg
Housing Material	Aluminum die-cast

MOUNTING & COMPATIBLE PARTS

PW20 is the base wall bracket for this camera; corner and pole installations add an adapter plate behind it. PC20 drops the camera from a ceiling, and a junction box mounts it flush to a surface with the cable termination inside.

MOUNTING TYPE	WHAT PARTS TO ORDER
Wall	**PW20** (Wall Mount)
Corner	**PC001** (Corner Mount Adapter Plate) + **PW20** (Wall Mount)
Pole	**PP001** (Pole Mount Adapter Plate) + **PW20** (Wall Mount)
Pendant	**PC20** (Pendant Ceiling Mount)
Surface	**PJC20** (Junction Box)

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.

PW20
159 × 144 × 198.3 mm (6.3 × 5.7 × 7.8 in) · 800 g
Wall mount bracket sized for the varifocal dual lens camera; cable routed through the arm.

PC20
Pendant ceiling mount, drops the camera below the ceiling line with the cable routed through the column.

PJC20
Ø163.2 × 63.5 mm (Ø6.4 × 2.5 in) · 630 g
Junction box. Connects directly to the camera to mount to the wall or ceiling and houses cable connections.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ONBOARD STORAGE
P-10MP-DSVF-V2	Piko 10MP Varifocal Dual Lens Camera, 2 × 5MP sensors, motorized 2.8–8mm	microSD / microSDHC / microSDXC
PE-10MP-DSVF-1TB-V2	Piko 10MP Varifocal 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
- IP67
- IK10
- NDAA Compliant
- ONVIF Profile S/T/M, CGI API

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

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