PIKO / AI IP CAMERA

Piko 12MP Fisheye IP Camera

A compact 360° fisheye camera that covers a whole room or forecourt from one ceiling position, for internal and external applications.

12MP 360° VIEW | SINGLE-LENS COVERAGE | IP67 / IK10 | NDAA COMPLIANT



OVERVIEW

The Piko 12MP Fisheye IP Camera covers a full 360° field of view from a single ceiling or wall position. A 12.3 megapixel sensor records 4000 × 3000 at up to 20 frames per second, or 3000 × 3000 at 30 frames per second, with a 180° panoramic mode available where a wall mount suits the space better.

One fisheye replaces several fixed cameras in open interiors, so there is one cable run, one licence and one device to maintain. The 1.5mm F1.8 lens needs no field-of-view adjustment at install, and three high-power IR LEDs illuminate to 25 metres. Smart bitrate control, region of interest and 3D noise reduction hold bandwidth and storage down at full resolution.

The aluminium die-cast housing is IP67 weatherproof and IK10 vandal resistant, and operates from -30°C to 55°C, so the same model serves lobbies and loading docks. Power arrives over PoE (IEEE 802.3af) on the same cable that carries video.

With ONVIF Profile S/T/M support the camera integrates into existing video management systems. At 125mm across and 0.5kg it suits retail floors, branch interiors, lobbies, corridors and covered entrances.

CORE FEATURES

IMAGING & VIDEO

- 12MP (4000 × 3000) at up to 20fps
- 360° or 180° viewing angle
- H.265 / H.264 / MJPEG compression
- Fixed 1.5mm F1.8 fisheye lens

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	1/2.3” 12.3M CMOS
Sensor Resolution	12MP (4000 × 3000)
Shutter Speed	1/30 ~ 1/32,000 sec (Auto / Manual, Anti-Flicker, Slow Shutter)
Day / Night	True Day/Night (IR-cut filter)
Minimum Illumination	0.3 Lux (Color) / 0 Lux (IR On)
Wide Dynamic Range	True WDR (up to 9MP, max 15fps with WDR on)
Lens Type	Fixed Fisheye
Focal Length	1.5mm, F1.8
Field of View	360° (180° panoramic mode supported)
Iris	Auto Exposure

INFRARED (IR)	
IR LEDs	3 × High Power IR LEDs
IR Distance	Up to 25m

VIDEO	
Compression	H.265, H.264, MJPEG
Max Resolution	4000 × 3000
Frame Rate	Up to 20fps at 4000 × 3000; 30fps at 3000 × 3000
Bitrate	100 Kbps – 25 Mbps
Bitrate Control	Multi-streaming CBR / VBR
Streaming	4000 × 3000/20 + 320 × 320/20, or 3000 × 3000/30 + 640 × 640/30
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 / 1000 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) / 10.2W (DC12V)
Connectivity	RJ-45 (Gigabit Ethernet)

ENVIRONMENTAL	
Operating Temperature	-30°C to 55°C (-22°F to 131°F)
Humidity	10–90% RH (non-condensing)
Weather Rating	IP67
Impact Protection	IK10

GENERAL	
Material	Aluminum die-cast
Dimensions	Ø125 × 58 mm
Weight	0.5 kg
Language	English

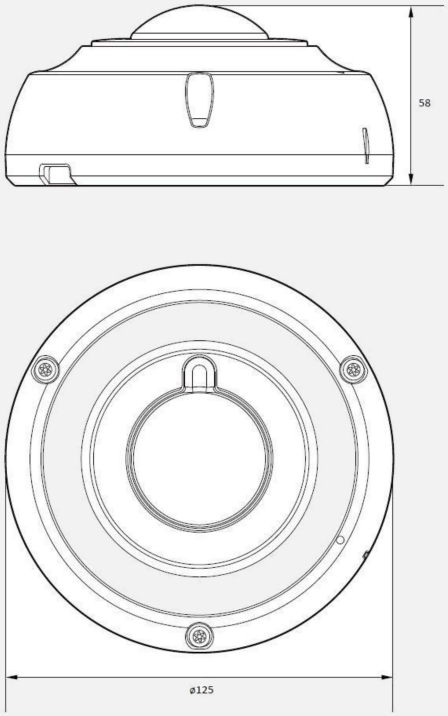
COMPLIANCE	
Certifications	FCC, CE
Procurement Compliance	NDAA Compliant

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	
Diameter	ø125 mm
Height	58 mm
Weight	0.5 kg
Housing Material	Aluminum die-cast

MOUNTING & COMPATIBLE PARTS

PW10 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) + **PW10** (Wall Mount)
Pole	**PP001** (Pole Mount Adapter Plate) + **PW10** (Wall Mount)
Pendant	**PC10** (Angled Pendant Ceiling Mount) Add **PCA3** (Pendant Adapter Cap) where a low-profile dome cap is required
Wall	**PW10** (Wall Mount) Add **PJC09** (Junction Box, requires PW10) or **PGP02** (Gang Plate) for cable termination
Surface	**PJC03** (Junction Box) or **PJC11** (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.



PW10

144 × 144 × 189.2 mm (5.7 × 5.7 × 7.4 in) · 680 g

Standard wall mount bracket, short arm. Works with the dome and fisheye cameras.

Weatherproof once assembled with the camera and wall-mounted; seal uneven or rough walls during install.



PC10

Angled pendant ceiling mount, slight offset arm for positioning flexibility.

Weatherproof once assembled with the camera and ceiling-mounted; seal uneven or rough ceilings during install.

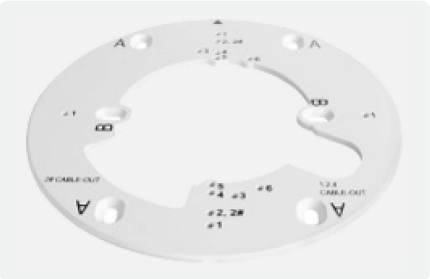


PCA3

NPT 1½" thread

Low-profile pendant adapter cap for dome and fisheye cameras; screws onto a pendant mount.

Weatherproof once the camera and pipe are fully assembled and installed.



PGP02

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

Not weatherproof

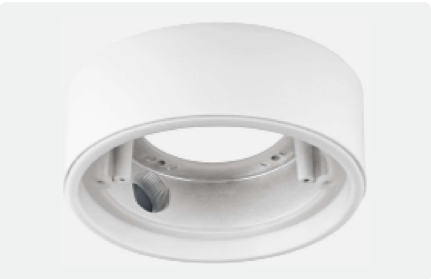


PJC09

150 × 50 mm (5.9 × 2.0 in) · 877 g

Junction box base designed to pair with a wall bracket (PW08, PW10); houses cable connections and splices. Requires PW10.

Weatherproof when used with the PW10 wall mount bracket.



PJC03

Ø144 × 47 mm (Ø5.7 × 1.9 in) · 500 g

Junction box for cameras needing more internal cable and connector space. Connects directly to the dome and fisheye cameras to mount to the wall or ceiling.

Not weatherproof



PJC11

135.8 × 60 mm (5.3 × 2.4 in) · 780 g

Junction box. Connects directly to the dome, fisheye, and LPR cameras to mount to the wall or ceiling.

Weatherproof once fully assembled with the camera and wall- or ceiling-mounted; seal uneven or rough surfaces during install.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ONBOARD STORAGE
P-12MP-360-V2	Piko 12MP Fisheye IP Camera, fixed 1.5mm 360° lens	1 × microSD (not included)
PE-12MP-360-1TB-V2	Piko 12MP Fisheye 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.

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