PIKO / AI IP CAMERA

Piko 20MP Quad Lens Camera

A four-sensor multi-directional camera covering wide areas from a single mounting point, managed as one device on one IP address.

4 × 5MP AT 30FPS | ONE IP ADDRESS | IP67 / IK10 | NDAA COMPLIANT

OVERVIEW

The Piko 20MP Quad Lens Camera covers wide areas from a single mounting point. Four independently positionable 5MP sensors deliver 20 megapixels of total coverage at up to 30 frames per second each, recorded and managed as one device on one IP address.

Each camera head positions by hand and holds by magnet, so installers set four fields of view without tools. Varifocal 2.8–8mm optics cover 93° to 51° horizontally per sensor, letting one unit serve an intersection, a forecourt or a perimeter run that would otherwise take three or four separate cameras.

Sixteen high-power IR LEDs illuminate to 30 metres, and true 120dB wide dynamic range holds detail against direct sun and headlights. The IP67-rated, IK10-rated aluminium and polycarbonate housing operates from -30°C to 50°C, and Ultra PoE delivers power over the same cable that carries all four streams.

Smart bitrate control, region of interest and 3D noise reduction keep bandwidth and storage in check at 20MP. With ONVIF Profile S/T/M support the camera integrates into existing video management systems, making it suited to intersections, parking structures, campuses and wide perimeters.

CORE FEATURES

IMAGING & VIDEO

- 4 × 5MP (20MP) at up to 30fps per sensor
- True WDR, 120 dB or above
- H.265 / H.264 / MJPEG compression
- Varifocal 2.8–8mm optics, F1.6

AI & ANALYTICS

- Deep-learning object and people tracking
- 40 detection rules and zones
- Enter, exit, dwell, direction, tailgating
- Metadata output (JSON/XML)

PERFORMANCE OPTIMIZATION

- Smart Bitrate Control
- Region of Interest (ROI)
- 3D Digital Noise Reduction
- One IP address for four sensors

TECHNICAL SPECIFICATIONS

IMAGE & CAMERA	
Image Sensor	4 × SONY STARVIS EXMOR 1/2.8” 5MP CMOS
Sensor Resolution	20MP total (4 × 2592 × 1944)
Shutter Speed	1/30 ~ 1/32,000 sec (auto / manual)
Day / Night	True Day/Night (removable IR-cut filter)
Minimum Illumination	0.1 Lux (Color) / 0 Lux (IR On)
Wide Dynamic Range	True WDR, 120 dB or above
Lens Type	Varifocal, four positionable heads
Focal Length	2.8 – 8mm, F1.6
Field of View	Horizontal: 93° (wide) – 51° (tele) per sensor
Iris	Auto exposure

INFRARED (IR)	
IR LEDs	16 × High Power IR LEDs
IR Distance	Up to 30m

VIDEO	
Compression	H.265, H.264, MJPEG
Max Resolution	2592 × 1944 per sensor
Frame Rate	Up to 30fps at 5MP per sensor
Bitrate	100 Kbps – 25 Mbps
Bitrate Control	CBR / VBR, multi-streaming
Streaming	Multi-stream: 2592 × 1944/30 + 720p/30 + 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
Input	Audio input (3 VDC, 3 kΩ)
Output	Line Out (1Vrms max)

NETWORK & INTEGRATION	
Ethernet	10 / 100 / 1000 Base-T (1 Gbps)
Protocols	TCP/IP, UDP, RTP, RTSP, NTP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMP v1/v2/v3, UPnP, RTCP, SSH
RTSP	Supported
Security	HTTPS (SSL), IP filtering, 802.1x, Digest Authentication
Integration	ONVIF Profile S/T/M, CGI API
Edge Storage	4 × microSD / microSDHC / microSDXC

POWER & CONNECTIVITY	
Power Input	Ultra PoE (IEEE 802.3bt Class 5) / DC12V
Power Consumption	Max 41.8W (PoE) / 37.2W (DC12V)
Connectivity	RJ-45 (Gigabit Ethernet)

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

GENERAL	
Material	Aluminum die-cast / polycarbonate
Dimensions	Ø280.5 × 126.2 mm
Weight	3.5 kg
Language	English

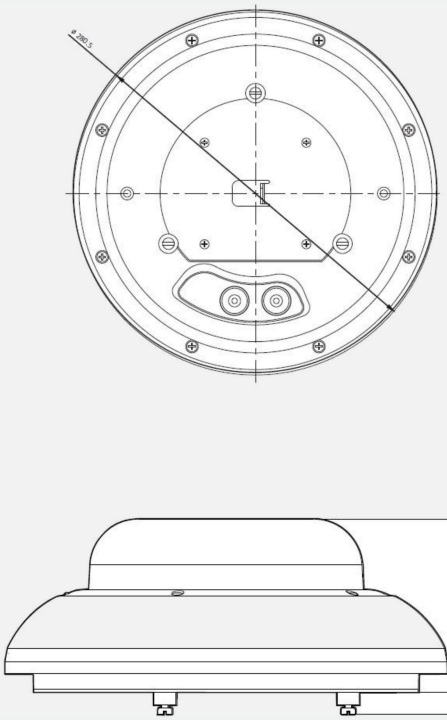
COMPLIANCE	
Certifications	FCC, CE
Procurement Compliance	NDAA Compliant

OPTIONAL PIKOANALYTICS

PikoANALYTICS is an optional analytics package licensed per camera. Detection zones and rules, intrusion detection and tamper detection are included as standard.

CAPABILITY	WHAT IT DOES
Analytics Engine	Advanced tracking algorithm with a rich library of detection behaviors.
Intrusion Detection	Detection of the presence of an object; 40 rules and zones (multi-segment polygons and lines) as standard.
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.
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	ø280.5 mm
Height	126.2 mm
Weight	3.5 kg
Housing Material	Aluminum die-cast / polycarbonate

MOUNTING & COMPATIBLE PARTS

Every non-pendant installation starts from a wall mount — PW18, or PW19 where the mount needs an integrated junction box. Corner and pole installations add an adapter plate beneath it; surface installations use a direct-mount junction box instead of a bracket.

MOUNTING TYPE	WHAT PARTS TO ORDER
Corner	**PC001** (Corner Mount Adapter Plate) + **PW18** (Wall Mount) or **PW19** (Wall Mount with Junction Box)
Pole	**PP001** (Pole Mount Adapter Plate) + **PW18** (Wall Mount) or **PW19** (Wall Mount with Junction Box)
Pendant	**PC19** (Pendant Mount with Cap) Use **PC19 NPT** where conduit connects directly to the mount, with no pipe arm
Wall	**PW18** (Wall Mount) or **PW19** (Wall Mount with Junction Box)
Surface	**PJC10** (Surface Mount 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.

PW18

289 × 248.5 × 299.5 mm (11.4 × 9.8 × 11.8 in) · 1.8 kg

Long-arm wall mount for quad lens cameras, extends the camera out from the wall.

PW19

289 × 248.5 × 347.5 mm (11.4 × 9.8 × 13.7 in) · 3.2 kg

Junction box base that comes with the wall mount attached. Made for the quad lens camera.

PC19

Full pendant ceiling mount with cable routed through the arm, for larger cameras and housings.

PC19 NPT

NPT 1½" thread

Pendant-style ceiling mount with an NPT-threaded fitting for direct conduit connection, no pipe arm.

PJC10

Ø296.3 × 60 mm (Ø11.7 × 2.4 in) · 1.2 kg

Junction box. Connects directly to the quad lens camera to mount to the wall or ceiling.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ONBOARD STORAGE
P-20MP-QSVF-V2	Piko 20MP Quad Lens Camera, varifocal 2.8–8mm	4 × microSD (not included)
PE-20MP-QSVF-1TB-V2	Piko 20MP Quad 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.

COOK SOLUTIONS GROUP
THINK CSG FIRST.

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