



Flex Gen4 IR PTZ

Flex Gen4 Bubble PTZ

## Flex Gen4 PTZ

Keep the Future in View with Pan-Tilt-Zoom



### Large Field of View with 360° Coverage

Control larger field of view with Pan-Tilt-Zoom. Built in 656ft (200m) IR (outdoor only) provides high quality images for 24x7 operation



AI

### Intelligence at the Edge

Reduced false alarms, faster investigations and accurate detection of events with deep learning AI



### Auto-Tracking Capabilities

Auto-tracking adjusts field of view to follow person through camera range for simplified camera operation



### Open Standard Support

ONVIF conformance provides open, consistent and reliable standard. Fully interoperable with multiple video management platforms including American Dynamics and Exacq



### Encrypted Data Transfer End-to-End

Protection against data misuse with full encryption from camera to recorder/SD card



### Cyber Secure

Meet evolving cyber challenges with resilient and NDAA-compliant camera

Illustra



Sales@collsam.com  
(951)282-8707

[HTTPS://COLLSAM.COM](https://collsam.com)  
Images May Not Reflect the Actual Product.  
Design and specifications are subject to change without notice.

Support@collsam.com  
(213)210-6744

# Specifications

Operational	2MP
<b>Camera</b>	
Image Sensor	Sony 1/2.8" Progressive Scan CMOS imager
Lens	4.5 mm – 135 mm, MFZ, P-iris F/1.4(W) – F/4.4(T) One touch auto focus, manual, and automatic focus with zoom
Field of View (FoV)	H: 59.8° - 2.34° V: 40.5° - 1.48°
Day/Night	True Day/Night CF removal
Minimum Illumination	<b>Indoor/Outdoor with IR</b> Color: 0.01 Lux, B/W: 0.007 Lux IR on: 0 Lux Indoor with bubble Color: 0.02 Lux, B/W: 0.01 Lux
Electronic Shutter Control	Automatic, Manual (1/4 to 1/32000 sec)
IR Illumination* <i>*IR models only</i>	850 nm LEDs, Adaptive/Smart IR Outdoor: 200 m (656 ft) Indoor: 50 m (164 ft)
Memory	1024 MB RAM, 4096 MB Flash
Pan/Tilt/Zoom	Pan: 360° continuous endless, 0.04° - 300°/s Tilt: 210°, 0.04° - 180°/s (indoor/outdoor with IR) Tilt: 180°, 0.04° - 180°/s (indoor with bubble) Zoom: 30x optical, 12x digital, total 360x zoom Auto flip, 300 presets, 96 sequences, 16 programmable pattern, Apple peel, adjustable zoom speed, home position (Preset, Pattern, Sequence, or Scan after no PTZ activity)
<b>Video</b>	
Bandwidth Management	IntelliZip® Smart Codec
Video Compression	H.264/H.265/MJPEG H.264 IntelliZip® / H.265 IntelliZip®
Bitrate Control	CBR/VBR/CVBR (configurable)
Max Resolution (HxV) & Aspect Ratio	16:9: 1920 x 1080 <b>(2MP)</b> to 480x272 Stream2 supports 1080p, default 720p
Max Frame Rate (60 Hz/50 Hz)	2MP: 60/50 fps
Video Streams	Triple Streaming with a maximum of 5 concurrent shared streams (per sensor)
Dynamic Range	True multi shutter WDR up to 120dB Off, SmartWDR, TWDR, TWDR 3x Supported
SmartDefog	
Picture Settings	Auto Exposure: Multiple Profiles (incl Auto, Gaming, LPR), Multiple ROI (incl AI ROI: Object, Person), Gain Control (Auto, Max, Manual), Flickerless, White Balance (Auto Normal, Auto Wide, Manual), text overlay
Privacy Zones	10 user definable rectangular zones
Image Stabilization	Electronic Image stabilization (EIS) by using gyro sensor
<b>Analytics</b>	
AI Object Classification	<b>Classes:</b> Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class <b>Rules:</b> Object Detected, Perimeter, Linger, Dwell, Abandoned/Removed, Enter, Exit, Crowd, Queue, Direction <b>Sub-Classes:</b> Person Clothing Color (Upper, Lower), Vehicle Color
AI Tamper Detection	Blackout, Whiteout, Scene Change (FoV tamper)
AI Blur Detection	Supported
AI Metadata	Supported
Motion Detection Zones	Yes (Single Full screen Zone)
Intelligent Guard (Auto Tracking)	Person Tracking
<b>Network</b>	
Network	IEEE 802.3, 10/100Base-T Ethernet, RJ45, auto sensing
Cyber security	Isa Secure ISA/IEC 62443-4-1 certified secure development Secure boot Signed and encrypted firmware
Authentication and Security	TLS, HTTPS (HTTP over TLS), WS-Security, Certificate Management, Multi-level password protection, IP address filtering, HTTPS encryption, Enhanced Security (One-Click Security Hardening), User Access Log, Validate Complex Credentials, Disabling Unused Protocols, IEEE 802.1x (PEAP, EAP-TLS, EAPoL)

Protocols	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, RTCP, RTSP, TLS, Unicast, Multicast, NTP, ICMP, IGMP, SMTP, WS-Security, IEEE 802.1x, PEAP, EAP-TLS, EAPoL, SSH, HTTPS, SOAP, WS-Addressing, CIFS, UPNP, LLDP, SIP, ARP, EAP-LEAP, QoS
Network management	SNMPv1/v2c/v3(MIB-2)
Simultaneous users	10 users
<b>System Integrations</b>	
Application Programming Interface	ONVIF Profile S, G, T, M conformant Illustra iAPI via Connected partner program
Event Triggers	Motion Detection, Tamper & Blur Detection, AI Object classification, Alarm Input, Network Loss, Periodic Event, Temperature
Event Actions	Record to SD card, Snapshot, SMTP e-mail file transfer, FTP file transfer, CIFS, Auxiliary output, Audio clip playback, SIP Call
Audio compression	G.711 $\mu$ -law
Audio Input/Output	Bi-directional, 1x Line input and 1x Line output
External I/O Terminals	2x Alarm In and 2x Alarm Out
<b>Peripherals</b>	
Onboard Storage	microSDXC slot, Class 10 or better, upto 1TB supported (Card not included. Pre event / Post event 1- 10 sec Encrypted storage and streaming TrickleStor offline recording and backfilling
Wireless configuration	Micro USB via optional USB Wi-Fi Dongle IA-KIT-WD-UUA
<b>Electrical</b>	
Power	<b>Outdoor:</b> IEEE 802.3bt PoE++ Type 4 Class 7   24VAC   48VDC PoE/24VAC: 51.6W; 48VDC: 48.5W
	<b>Indoor with IR:</b> 802.3at PoE+ Type 2 Class 4   24VAC   48VDC PoE/24VAC: 25.2W   48VDC: 22.5W
	<b>Indoor with bubble:</b> 802.3at PoE+ Type 2 Class 4   24VAC   48VDC PoE/24VAC: 18W   48VDC: 18W
Dual Power Redundancy	Supported
<b>Physical</b>	
Operating Temperature	<b>Outdoor:</b> -40°C (-40°F) to +65° C (149°F) (IR off at +60° C/140° F) Start-up temperature: -40°C (-40°F)
	<b>Indoor:</b> -20°C (-4°F) to +60° C (140°F) Start-up temperature: -20°C (-4°F)
Humidity	up to 95% RH, Non-Condensing
Casing	IP66, NEMA 4x and IK10 rated Housing: Aluminum alloy Dome: Polycarbonate (applicable to Indoor with bubble only) Color: Signal White Pantone RAL 9003
Physical dimensions	<b>Outdoor &amp; Indoor:</b> $\varnothing$ 190 x 336mm ( $\varnothing$ 7.48 x 13.23 in) <b>Bubble PTZ:</b> $\varnothing$ 212 x 344mm ( $\varnothing$ 8.35 x 13.54 in)
Weight	<b>Outdoor:</b> Net 5.8 kg (12.79 lbs), Gross 7.5 kg (16.53 lbs) <b>Indoor with IR:</b> Net 5.1 kg (11.24 lbs), Gross 7.5 kg (14.99 lbs) <b>Indoor with bubble:</b> Net 6.6 kg (12.79 lbs), Gross 7.5 kg (18.30 lbs)
<b>Regulatory</b>	
EMC	BS/EN 55032 Class A, FCC Part 15 Class A; EN55032 Class A; AS/NZS CISPR 32 Class A; ICES-003/NMB-003 Class A, IEC/BS/EN 61000-3-2, BS/EN 61000-3-3, BS/EN 50130-4, IEC 61000-4-2/3/4/5/6/11
Safety	CAN/CSA C22.2, BS/EN 62368-1, UL 62368-1, AS/NZS 62368-1, J62368-1, CEI EN 62368-1, EN50121-4, EN60950-1, UL60950-1, IEC 60950-1, CSA 22.2 No. 60950
Environmental	NEMA 250 Type 4X, IEC 62262 (IK10), IEC 60529 (IP66), EU RoHS (2011/65/EU), EU Reach (EC 1907/2006), EU POP compliance, Calif Prop 65, WEEE, MSDS
<b>General</b>	
Web Browsers	Microsoft Edge, Firefox, Safari, Chrome
Language	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, English (default), French, German, Hungarian, Italian, Japanese, Korean, Netherlands, Polish, Portuguese, Russian, Spanish, Swedish, Turkish
NDA Compliant	Yes
TAA Compliant	Yes
Warranty	5 Years

# Camera Dimensions

Flex Gen4 IR PTZ

Flex Gen4 Bubble PTZ

