



## The Complete Illustra Camera Portfolio



Optimize Performance with  
Expansive Video Surveillance Solutions



## Versatile, Scalable, Intelligent

Illustra® IP network cameras feature premiere video intelligence and technology that maximize resources and improve overall performance. Powerful on-board camera analytics distribute the load between the camera and the video management system while triggering events to be utilized for real-time alerts, forensic analysis, or useful business data. Innovative low-light detection enabled by IR illumination, Wide Dynamic Range, True Day/Night and UltraVision provide exceptional video quality in challenging lighting conditions. Get the most out of storage hardware while preserving video detail through Illustra® IntelliZip smart bandwidth management. Ensure an optimum video experience with a wide range of features and options from Illustra.

A tiered approach scaling from single-site deployments to multi-location installations allows Illustra to provide a solution for a variety of workplaces and industries. As the premium Illustra product line, Pro cameras offer high-resolution, advanced video intelligence analytics, and Corridor Mode for complex enterprise-level deployments. With a variety of form factors, the Flex product line includes features such as 120dB Wide Dynamic Range to maintain image detail in varying light conditions, motion detection for intruder alerts, and 3D noise reduction. Essentials varifocal and fixed focal lens cameras are ideal for basic, low-cost deployments where quality and versatility are necessities. With an array of form factors and features, there is always an Illustra camera able to perform in a variety of environments. Surveillance cameras seldom function on their own, which is why the open platform of Illustra cameras makes them ideal in applications where integration is important. Used with a vast number of video and access control management systems from brands such as Software House, Exacq and American Dynamics, Illustra is part of a holistic, end-to-end security solution.

Illustra cameras provide a versatile and scalable surveillance solution for deployments where advanced video intelligence, innovative recording features, and open platform integrations are required.

# The Complete IP Camera Range

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## Camera Solutions



## Streamline Efficiency with Illustra Technologies

Illustra IP cameras include a range of technologies that allow security operators to track behavior, save storage costs, increase confidence in their surveillance infrastructure, and adapt to challenging lighting and viewing conditions. Video Intelligence Analytics feature 10 configurable alarms that can be utilized for obtaining valuable business data or mapping the traffic in an area. Illustra UltraVision, Wide Dynamic Range,

and True Day/Night all work to balance high-contrasting or low-light scenarios. Use Illustra IntelliZip when offsetting the bandwidth consumption of higher resolution cameras, and enhance failover redundancy with VideoEdge TrickleStor. Finally, view only the important areas of a scene with Corridor Mode, ideal for vertical applications such as hallways. Illustra technologies ensure your security personnel have a variety of reliable tools to save time and resources while maintaining control of any situation.



## Illustra Video Intelligence Analytics

### Focus Resources on Important Video Events

Illustra's powerful Video Intelligence Analytics automatically analyze captured video and alert users of specific motion detected activities and are available on the second and third generation of Illustra Pro mini-domes and bullet (Gen3 only). Illustra cameras create a cost-effective solution for onboard video analytics without the need for a dedicated analytics server.

### Benefits of Video Analytics

- Automatically detect and notify security personnel of suspicious events
- Streamline security operations to see relevant video evidence immediately
- Minimize search time with configured video analytic alarms
- Save expenses and network load with intelligent analytics on the edge
- Choose from 10 analytic alarms including:
  - Object Detection
  - Object Abandoned
  - Object Removed
  - Direction
  - Linger
  - Dwell
  - Enter/Exit
  - Crowd
  - Queue
  - Perimeter
- Compatible with American Dynamics VideoEdge and exacqVision recorders for easy configuration

### Ideal Security Applications

Illustra analytics are flexible and configurable for numerous real-time or forensic applications including increasing customer service levels, providing real-time insights into key performance indicators, notifying operators of objects moving the wrong way, entering into secure areas or package left unattended, crowds congregating, or individuals loitering.



Features in Action

Illustra IntelliZip

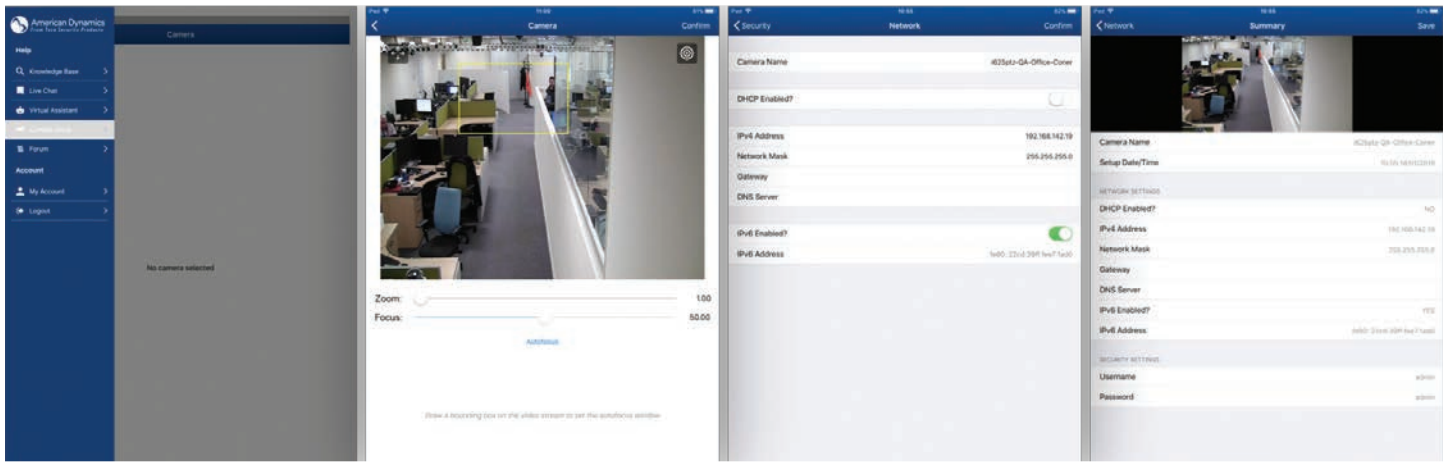
Illustra IntelliZip provides powerful bandwidth management beyond H.264 and H.265, reducing network bandwidth and video storage requirements. This embedded technology continuously monitors and optimizes system streaming parameters to match the level of activity within the camera’s field of view. When the camera detects motion, IntelliZip automatically adjusts the video quality to ensure every detail within the region of interest is captured clearly. When the scene becomes static, IntelliZip continues to optimize bitrate.

VideoEdge TrickleStor

The VideoEdge TrickleStor feature on the Illustra Pro and Flex product lines allows video recording to continue on the camera when a network outage occurs. If communications between the NVR and cameras are interrupted or stopped, the camera automatically detects the anomaly and begins recording video to its SD card. With TrickleStor, once the network connections are restored, the recorded video is then transferred back to the NVR’s hard drive for seamless viewing later.

Illustra Mobile Camera Configurator

For MasterTech certified installers, the Tyco Technical Support Portal application includes an Illustra Mobile Camera Configurator. While in the portal app, easily set up Illustra cameras on site by simply entering in the camera’s IP address. Once the user sees the camera in the feature they can adjust the camera to its optimal settings, such as focus, zoom, and network security.



Screenshots from the Mobile Illustra Camera Configuration Tool.

Illustra UltraVision

Select Illustra cameras utilize a high-sensitivity, low-noise image sensor to offer industry leading low light performance in even the darkest of scenes, allowing them to maintain the crucial detail users need to identify key features of objects and people. The operator is also able to preserve valuable data that is contained in both bright and dark areas with 100dB True Wide Dynamic Range.

Wide Dynamic Range

Wide Dynamic Range (WDR) improves surveillance images in scenes with varying foreground and background illumination. When WDR is off, the image in the foreground is dark with features hidden by shadows due to the bright backlighting. When WDR is on, the lighting variation is minimized and the result is an image suitable for surveillance. The WDR feature of the Illustra cameras allows them to obtain useable video surveillance in any number of lighting situations. From a loading dock backlit by the sun to a hotel lobby with large glass windows, the cameras can still capture video surveillance for any security need.

Enhanced Cybersecurity

Illustra Flex and Pro IP cameras have been designed to be resilient against cyber-threats. This solution has a security overview page so that administrators can quickly determine if the proper levels or protection are applied. Safeguard controls include an enhanced security mode which forces the use of complex, non-default passwords and encrypted communications.

Illustra Pro and Flex Cameras have been designed to be resilient against cyber-threats. Our products are gated, analyzed, tested and required to meet or exceed the rigorous standards of the Johnson Controls Cyber Solutions Product Security Program for every consecutive release. This holistic approach is aimed at providing peace of mind to our customers. Our security mindset begins at initial design concept and is supported through deployment, including a rapid incident response to meet the comprehensive and evolving cybersecurity environments.





Pro



## Pro

The Illustra Pro camera line is our premiere IP camera offering with resolutions from 2MP to 12MP and form factors of compact mini-dome, mini-dome, bullet, micro, fisheye, and PTZ. The Illustra Pro cameras feature advanced video intelligence analytics designed to augment the overall system while off-setting computing from the VMS. Select Pro cameras feature Smart Wide Dynamic Range, and Illustra technology that effectively reads the scene and adjusts overall scene balance without operator intervention. The Illustra Pro

cameras are ready for on-board video recording, and have a zero license cost when used with VideoEdge® NVRs. The Pro camera portfolio now features VideoEdge TrickleStor, a highly-integrated camera to NVR connectivity solution that protects against video loss. Additionally, the new "Secure Boot" cybersecurity feature available in the third generation of cameras ensures the camera will not boot if software has tampered with in any way.



### Pro Gen3 Mini-Domes

The Illustra Pro Gen3 Mini-Dome maximizes video quality while minimizing installation costs and configuration time. Integrated IR provides uninhibited images in total darkness by removing the bubble from the housing, reducing glare and increasing distance capabilities. Building off the previous generation of cameras, the Gen3 Mini-Dome improves on important features such as Wide Dynamic Range, effective failover redundancy, cybersecurity, and Video Intelligence Analytics.

- Available in 2MP, 3MP, 5MP, and 8MP resolution options
- Smart Wide Dynamic Range effectively reads the scene and adjusts overall scene balance without operator intervention
- Video Intelligence Analytics provide real-time alarms for quick reaction to incidents
- Profile settings allow the mini-dome to adapt to scenarios such as LPR, gaming, and more
- Improved accuracy for facial detection with updated library and algorithms
- Demo mode out of the box requires minimal adjustments
- "Secure Boot" ensures the camera will not boot if software has been tampered with in any way



### Pro Gen3 Bullet

The Illustra Pro Gen3 Bullet features powerful integrated IR that provides uninhibited images in total darkness up to 230ft (70m) away. Included pole/pendant and arm options as well as easily accessible cable ports simplify installation and ongoing maintenance. Building off the previous generation of cameras, the Gen3 Mini-Dome improves on important features such as Wide Dynamic Range, effective failover redundancy, cybersecurity, and Video Intelligence Analytics.

- Available in 3MP and 8MP resolution options
- Smart Wide Dynamic Range effectively reads the scene and adjusts overall scene balance without operator intervention
- Video Intelligence Analytics provide real-time alarms for quick reaction to incidents
- Profile settings allow the mini-dome to adapt to scenarios such as LPR, gaming, and more
- Improved accuracy for facial detection with updated library and algorithms
- Demo mode out of the box requires minimal adjustments
- "Secure Boot" ensures the camera will not boot if software has been tampered with in any way





Pro 2MP Micro

Ideal for applications where a low-profile, high-performance surveillance camera is required, the Illustra Pro Micro comes with a range of features for discrete installations. Both an 8in (203mm) and 6.5ft (2m) cable are included allowing for a variety of deployment options right out of the box. Wide Dynamic Range combined with the small size makes this product well-suited for applications such as ATMs, elevators, and entrances where backlighting can be a challenge. The camera is equipped with various viewing angles including corridor mode to ensure important details are captured without wasting the field of view.

- Low-profile design allows for discrete deployments
- ONVIF Profile S compliant for simplified video streaming integrations
- No additional licensing cost when adding to VideoEdge NVRs
- True Wide Dynamic Range to simultaneously view high contrast areas



Pro 2MP & 3MP Compact Mini-Domes

Illustra Pro 2MP and 3MP Compact Mini-Domes are ideal for applications where various viewing aspect ratio options, Wide Dynamic Range, enhanced IP network cybersecurity, and small form factor are important. These models are equipped with corridor mode which is optimal for hallways, aisles, or any area where a landscape format is not ideal.

- True Wide Dynamic Range to simultaneously view high contrast areas
- Corridor Mode for vertical field of view orientation to view hallways or store aisles
- Rated IP67 and IK10 for weather and vandal resistance
- ONVIF Profile S compliant for simplified video streaming integrations



Pro Gen2 2MP, 3MP & 5MP Mini-Domes

Offering exceptional performance in various lighting situations ranging from full sun to blackout conditions, the Illustra Pro Mini-Domes are ideal for detecting must-see details such as numbers on license plates, faces, and even blurred objects and capturing them at full frame rates.

- True Wide Dynamic Range to simultaneously view high contrast areas
- Triple video streaming to maximize transcoding resources
- Video Intelligence Analytics
- Rated IP66 and IK10 for weather and vandal resistanc



Pro 5MP Fisheye LT

The sleek, discreet design of the Illustra Pro 5MP Fisheye LT allows it to blend into any environment for inconspicuous surveillance. Ideal for applications such as retail stores, expansive indoor parking areas, casinos, building lobbies, elevators, corridor intersections, and university lecture halls, the 5MP Fisheye LT enhances situational awareness with a 360° bird’s eye view from the ceiling.

- Wall and ceiling mounting and configuration respectively
- ePTZ capabilities for ultra-smooth pan, tilt, and zoom
- Onboard SD card recording and storage
- Quick, easy installation and configuration
- ONVIF Profile S compliant for simplified video streaming integrations
- Power over Ethernet





Pro 12MP Fisheye

The Illustra Pro 12MP Fisheye camera provides a 180° panoramic view when mounted on a wall, or a 360° bird’s eye view when mounted on a ceiling and supports both indoor and outdoor deployments. The camera is ideal for applications where situational surveillance, including subject traffic flow, covering a wide area can be achieved using a single camera. The camera’s integrated IR illuminators provide high-quality video up to 49ft (15m) in even the worst lighting conditions.

- 12MP imager for super high quality images; 9MP fisheye / 4MP de-warped
- 180°/360° panoramic views of wide areas
- Single or multiple fixed views for forensic investigations
- Onboard de-warping for distortion-free images
- ePTZ capabilities for ultra-smooth transition between pan, tilt, and zoom
- Pre-focused at the factory for quick and easy installations
- Rated IP66 and IK10 for weather and vandal resistance
- ONVIF profile S, G, and Q compliant



Pro PTZ Camera

The exceptional speed of the Illustra Pro PTZ 30x dome coupled with ultra-low latency performance gives security personnel the ability to accurately track and zoom on subjects in mission-critical applications. The camera employs zoom-adjusted programing technology to automatically control the pan and tilt speed in proportion to the amount of zoom used, delivering precise pan and tilt control.

- Powerful 30x optical zoom and 12x digital zoom
- Highly accurate return-to-position with exceptional gearing and braking designs
- Automatically view high definition video from scene-to-scene with programmed presets and tours
- Camera moves into position at 512 degrees per second, delivering 835 pixels per degree needed for minimal loss of surveillance
- Produces clear video in the most complex environments with auto defog and frame noise reduction
- Intelligent Guard Tour feature using embedded video intelligence to automatically track, zoom in, and record events or suspicious activity
- Quickly identify subjects and suspicious activity at distances of up to ~1000 ft (300m) from the camera



Pro Thermal EST Camera **NEW**

The Tyco Illustra Pro Thermal EST Camera, being contactless and therefore non-invasive, is ideal for deployment at controlled entrances to areas and facilities where initial skin temperature measurement is needed for staff and visitors. With a ±0.2°C / 0.4°F accuracy tolerance, in single person scanning mode, at an effective distance of 1 to 2 meters (3.3 to 6.6 feet), this elevated skin temperature scanning solution provides a high degree of flexibility to meet the individual situational awareness requirements of a wide variety of installations.

- NDAA compliant and it exceeds international standards for drift, stability, accuracy and uniformity and meets FDA COVID-19 Enforcement Policy criteria
- Accurate to ±0.2°C / 0.4°F
- Dual Image Sensor with thermal detector
- Up to 5MP resolution 2592 × 1944 with visible camera, 384 x 288 resolution with thermal camera
- True day / night
- Built in IR & white light illuminator
- Smart facial temperature detection
- Alarm trigger by temperature anomaly
- High accuracy with External Temperature Reference Source (ETRS) calibration
- Built-in sound-light alarm
- 1CH audio input; 1CH built-in speaker
- PoE or 12VDC powered











*Important Notice: Elevated body temperatures identified by the Tyco Illustra Pro Thermal EST should be confirmed with secondary evaluation methods, such as contact thermometers. Temperature measurements should not be solely or primarily relied upon to diagnose or exclude a diagnosis of COVID-19, or any other disease. The Tyco Illustra Pro Thermal EST does not cause and cannot eliminate or prevent occurrences of the events that it is intended to detect or avert. This product is not intended to diagnose or monitor any medical condition or illness and should not be used as such. The product is supplied as a first-line filter for organisations that wish to identify those entering premises who may have an elevated body temperature.*

*It is then for the organisation to determine how that information is used, and the appropriate reaction to that information.*





*Competent medical advice should be sought if there are concerns around illness, and further checks will be required.*






PRO CAMERA GUIDE				
Pro Compact 2MP Mini-Dome		Pro Compact 3MP Mini-Dome	Pro Gen3 2MP Mini-Domes 2.7-13.5mm	Pro Gen3 2MP Mini-Domes 7-22mm
				
Max Frame Rate/Stream		60ips @ 2MP	60ips @ 2MP	60ips @ 2MP
Max Resolution		1920x1080 (1080p) 16:9	2048x1536 4:3	1920x1080 (1080p) 16:9
CODEC		MJPEG/H.264/H.265	MJPEG/H.264/H.265	MJPEG/H.264/H.265
Illustra IntelliZip		Yes	Yes	Yes
Video Streams		Triple	Triple	Quad
Imager		1/2.8"	1/2.8"	1/2.8"
Analog Video Output		No	No	Yes
Day/Night		Soft Day/Night	Soft Day/Night	True Day/Night
Minimum Illumination Lux	Color	0.01 Lux	0.01 Lux	0.01 Lux
	B/W	N/A	N/A	0.0001 Lux
	IR	N/A	N/A	0.0 Lux
IR Illuminator Range		N/A	N/A	130 ft
Focal Length		2.8mm	2.8mm	2.7-13.5mm
Field of View (H/V)	WA	102°/77°	102°/77°	112°/58°
	TP			35°/20°
Corridor Mode		Yes	Yes	Yes
Auto Focus / Motorized Zoom		Fixed	Fixed	Yes
Onboard Analytics		Motion Detection (3) Privacy Zones (9) Blur Detection	Motion Detection (3) Privacy Zones (9) Blur Detection	Video Intelligence Motion Detection (3) Face Detection Privacy Zones (9) Blur Detection
Audio Input/Output		No	No	Yes
Alarm Input/Output		No	No	1/1
Wide Dynamic Range		120dB	120dB	120dB
Onboard Storage (SD Card)		microSDXC 128GB	microSDXC 128GB	microSDXC up to 256GB
VideoEdge TrickleStor		Yes	Yes	Yes
Power Input		PoE IEEE 802.3af Class 2	PoE IEEE 802.3af Class 2	PoE IEEE 802.3af/802.3at, Type 1 Class 3; 24 VAC
Power Draw		6W	6W	PoE 12.95W, 24 VAC 16.5W
Operating Temperature		-40°F to 122°F	-40°F to 122°F	-58° to +140°F
Dimensions		4.3 x 2in	4.3 x 2in	Ø5.4 x 5.4in
Outdoor Rating		IP66/IP67	IP66/IP67	IP67
Vandal Resistant		IK10	IK10	IK10
Model Numbers		IPS02CFOCWST	IPS03CFOCWST	IPS02-D12-OI03




PRO CAMERA GUIDE				
Pro Gen3 3MP Mini-Domes 2.7-13mm		Pro Gen3 3MP Mini-Domes 7-22mm	Pro Gen3 5MP Mini-Domes 2.7-13.5mm	Pro Gen3 5MP Mini-Domes 6-22mm
				
Max Frame Rate/Stream		60ips @ 2MP	60ips @ 2MP	60ips @ 2MP
Max Resolution		2048x1536 4:3	2048x1536 4:3	2592x1944 4:3
CODEC		MJPEG/H.264/H.265	MJPEG/H.264/H.265	MJPEG/H.264/H.265
Illustra IntelliZip		Yes	Yes	Yes
Video Streams		Quad	Quad	Quad
Imager		1/2.8"	1/2.8"	1/2.8"
Analog Video Output		Yes	Yes	Yes
Day/Night		True Day/Night	True Day/Night	True Day/Night
Minimum Illumination Lux	Color	0.02 Lux	0.03 Lux	0.03 Lux
	B/W	0.0002 Lux	0.0003 Lux	0.0002 Lux
	IR	0.0 Lux	0.0 Lux	0.0 Lux
IR Illuminator Range		130 ft	130 ft	130 ft
Focal Length		2.7-13.5mm	7-22mm	2.7-13.5mm
Field of View (H/V)	WA	100°/73°	36°/26°	103°/74°
	TP	32°/24°	16°/12°	33°/25°
Corridor Mode		Yes	Yes	Yes
Auto Focus / Motorized Zoom		Yes	Yes	Yes
Onboard Analytics		Video Intelligence Motion Detection (3) Face Detection Privacy Zones (9) Blur Detection	Video Intelligence Motion Detection (3) Face Detection Privacy Zones (9) Blur Detection	Video Intelligence Motion Detection (3) Face Detection Privacy Zones (9) Blur Detection
Audio Input/Output		Yes	Yes	Yes
Alarm Input/Output		1/1	1/1	1/1
Wide Dynamic Range		120dB	120dB	110dB
Onboard Storage (SD Card)		microSDXC up to 256GB	microSDXC up to 256GB	microSDXC up to 256GB
VideoEdge TrickleStor		Yes	Yes	Yes
Power Input		PoE IEEE 802.3af/802.3at, Type 1 Class 3; 24 VAC	PoE IEEE 802.3af/802.3at, Type 1 Class 3; 24 VAC	PoE IEEE 802.3af/802.3at, Type 1 Class 3; 24 VAC
Power Draw		PoE 12.95W, 24 VAC 16.5W	PoE 12.95W, 24 VAC 16.5W	PoE 12.95W, 24 VAC 16.5W
Operating Temperature		-58° to +140°F	-58° to +140°F	-58° to +140°F
Dimensions		Ø5.4 x 5.4in	Ø5.4 x 5.4in	Ø5.4 x 5.4in
Outdoor Rating		IP67	IP67	IP67
Vandal Resistant		IK10	IK10	IK10
Model Numbers		IPS03-D12-OI03	IPS03-D17-OI03	IPS05-D12-OI03



PRO CAMERA GUIDE				
Pro Gen3 8MP Mini-Domes 3.6-10mm		Pro Gen3 8MP Mini-Domes 6-22mm	Pro 2MP 3-9mm Mini-Dome	Pro 3MP 3-9mm Mini-Dome
				
Max Frame Rate/Stream		60ips @ 2MP	60ips @ 2MP	30ips @ 2MP
Max Resolution		3840x2160 (4K) 16:9	3840x2160 (4K) 16:9	1080p
CODEC		MJPEG/H.264/H.265	MJPEG/H.264/H.265	MJPEG/H.264
Illustra IntelliZip		Yes	Yes	No
Video Streams		Quad	Quad	Triple
Imager		1/1.8"	1/1.8"	1/3.2"
Analog Video Output		Yes	Yes	Yes
Day/Night		True Day/Night		True Day/Night
Minimum Illumination Lux	Color	0.03 Lux	0.02 Lux	0.03 Lux
	B/W	0.0004 Lux	0.0005 Lux	0.001 Lux
	IR	0.0 Lux	0.0 Lux	0.0 Lux
IR Illuminator Range		130 ft	130 ft	65 ft
Focal Length		3.6-10mm	6-22mm	3-9mm
Field of View (H/V)	WA	95°/53°	50°/28°	105°/57°
	TP	49°/28°	24°/14°	36°/20°
Corridor Mode		Yes	Yes	No
Auto Focus / Motorized Zoom		Yes	Yes	Yes
Onboard Analytics		Video Intelligence Motion Detection (3) Face Detection Privacy Zones (9) Blur Detection	Video Intelligence Motion Detection (3) Face Detection Privacy Zones (9) Blur Detection	Video Intelligence Motion Detection Face Detection Privacy Zones (4) Blur Detection
Audio Input/Output		Yes	Yes	Yes
Alarm Input/Output		1/1	1/1	2/1
Wide Dynamic Range		110dB	110dB	100dB
Onboard Storage (SD Card)		microSDXC up to 256GB	microSDXC up to 256GB	SDXC 128GB
VideoEdge TrickleStor		Yes	Yes	Yes
Power Input		PoE IEEE 802.3af/802.3at, Type 1 Class 3; 24 VAC	PoE IEEE 802.3af/802.3at, Type 1 Class 3; 24 VAC	AC24V, IEEE802.3af Class 3 PoE
Power Draw		PoE 12.95W, 24 VAC 16.5W	"PoE 12.95W, 24 VAC 16.5W"	12.95W
Operating Temperature		-58° to +140°F	-58° to +140°F	Indoor: 14°F to 122°F Outdoor: -22°F to 122°F 24VAC: -40°F to 122°F Extended: 140°F 4hrs/day
Dimensions		Ø5.4 x 5.4in	Ø5.4 x 5.4in	Indoor: 5.4 x 5.1in Outdoor: 6.3 x 5.3in
Outdoor Rating		IP67	IP67	IP66 (Outdoor)
Vandal Resistant		IK10	IK10	IK10
Model Numbers		IPS08-D13-OI03	IPS08-D14-OI03	IPS02D2xxxxxxx

PRO CAMERA GUIDE				
Pro 5MP 3-9mm Mini-Dome		Pro Gen3 3MP Bullet	Pro Gen3 8MP Bullet	
				
Max Frame Rate/Stream		15ips @ 5MP	30ips @ 3MP	30ips @ 8MP
Max Resolution		2592x1944 4:3	2048x1536 4:3	3840x2160 (4K) 16:9
CODEC		MJPEG/H.264	MJPEG/H.264/H.265	MJPEG/H.264/H.265
Illustra IntelliZip		No	Yes	Yes
Video Streams		Triple	Quad	Quad
Imager		1/3.2"	1/2.7"	1/1.8"
Analog Video Output		Yes	Installation Only	Installation Only
Day/Night		True Day/Night	True Day/Night	True Day/Night
Minimum Illumination Lux	Color	0.3 Lux	0.02 Lux	0.03 Lux
	B/W	0.02 Lux	0.0002 Lux	0.0004 Lux
	IR	0.0 Lux	0.0 Lux	0.0 Lux
IR Illuminator Range		65 ft	130 ft	130 ft
Focal Length		3-9mm	2.7-13.5mm	3.6-10mm
Field of View (H/V)	WA	88°/64°	100°/73°	95°/53°
	TP	30°/22°	32°/24°	49°/28°
Corridor Mode		No	Yes	Yes
Auto Focus / Motorized Zoom		Yes	Yes	Yes
Onboard Analytics		Video Intelligence Motion Detection Face Detection Privacy Zones (4) Blur Detection	Video Intelligence Motion Detection (3) Face Detection Privacy Zones (9) Blur Detection	Video Intelligence Motion Detection (3) Face Detection Privacy Zones (9) Blur Detection
Audio Input/Output		1/1	Yes	Yes
Alarm Input/Output		2/1	1/1	1/1
Wide Dynamic Range		90dB	120dB	110dB
Onboard Storage (SD Card)		SDXC 128 GB	microSDXC up to 256GB	microSDXC up to 256GB
VideoEdge TrickleStor		Yes	Yes	Yes
Power Input		AC24V, IEEE802.3af Class 3 PoE	PoE IEEE 802.3at Type 1 Class 4; 24 VAC	PoE IEEE 802.3at Type 1 Class 4; 24 VAC
Power Draw		12.95W	PoE 20W, 24 VAC 18W	PoE 20W, 24 VAC 18W
Operating Temperature		Indoor: 14°F to 122°F Outdoor: -22°F to 122°F 24VAC: -40°F to 122°F	-50° to +140°F	-50° to +140°F
Dimensions		Indoor: 5.4 x 5.1in Outdoor: 6.3 x 5.3in	Ø3.15 x 8.07in	Ø3.15 x 8.07in
Outdoor Rating		IP66 (Outdoor)	IP67	IP67
Vandal Resistant		IK10	IK10	IK10
Model Numbers		IPS05D2xxxxxxx	IPS03-B12-OI03	IPS08-B13-OI03



PRO CAMERA GUIDE				
		Pro 5MP Fisheye LT	Pro 12MP Fisheye	Pro 2MP Micro
				
Max Frame Rate/Stream		14ips @ 1936x1936	20ips @ 2MP	60ips @ 2MP
Max Resolution		1936x1936	2992x2992	1920 x 1080 (1080p) 16:9
CODEC		MJPEG/H.264	MJPEG/H.264	H.264 / H.265 / IntelliZip / MJPEG
Illustra IntelliZip		No	No	Yes
Video Streams		Triple	Triple	Triple
Imager		1/2.5"	1/1.7"	1/2.8"
Analog Video Output		N/A	N/A	N/A
Day/Night		Color only	Color only	Soft Day/Night
Minimum Illumination Lux	Color	1.2 lux	0.1 lux	0.01 Lux
	B/W	N/A	0.01 lux	
	IR	N/A	0.0 lux	
IR Illuminator Range		N/A	49 ft	N/A
Lens Type		Manual	Manual	2.8mm
Field of View (H/V)	WA	When wall mounted 183°	180° / 180°	116°/65°
	TP			
Corridor Mode		No	No	
Auto Focus / Motorized Zoom		Manual Tune	N/A	Yes
Onboard Analytics		Motion Detection Privacy Zones (4)	Motion Detection (5) Privacy Zones (4)	Motion Detection Privacy Zones Blur Detection
Audio Input/Output		N/A	Yes	1/1
Alarm Input/Output		N/A	1/1	1/1
Wide Dynamic Range		82dB	Yes	100 dB
Onboard Storage (SD Card)		microSDXC 32 GB	microSDXC 64 GB	microSDXC up to 128GB
VideoEdge TrickleStor		No	No	Yes
Power Input		PoE 802.3af, Class 3	PoE IEEE 802.af, DC12V	IEEE 802.3af/802.3at Class 3 PoE
Power Draw		12.95W	7.1W PoE, 8.1W DC12V	8.5W
Operating Temperature		14°F to 113°F	-22°F to 122°F	14°F - 104°F
Dimensions		Vandal Resistant: Ø5.9 x 2.9in Non-Vandal Resistant: Ø5.9 x 2.4in	4.6 in x 1.68in	Camera Head: Ø 2.4 x 1.7in Electronics Box: 3 x 1.5 x 1.5in
Outdoor Rating		N/A	IP66	No
Vandal Resistant		IK10	IK10	No
Model Numbers		ADCi825LT-F311 ADCi825LT-F312	IPS12FFOCWIYA	IPS02HFANWST2

PRO CAMERA GUIDE		
	Pro PTZ Indoor	Pro PTZ Outdoor
		
Min. Illumination (Lux)	0.4 Lux color 0.04 Lux B/W	0.4 Lux color 0.04 Lux B/W
Lens - Optical Zoom	30x	30x
Wide Angle (FoV)	63° / 37°	63° / 37°
Telephoto (FoV)	2.3° / 1.3°	2.3° / 1.3°
Max. Video Resolution	1080p	1080p
Max. Frame Rate	30ips @ 1080p	30ips @ 1080p
Manual Pan/Tilt Speed	0.25°-100° per second (based on zoom manual position)	0.25°-100° per second (based on zoom manual position)
Preset Pan/Tilt Speed	512° per second, max. (Pan)	512° per second, max. (Pan)
Pan Travel	360° continuous	360° continuous
Tilt Travel	105°	105°
Presets	96	96
Onboard Analytics	Motion Detection Privacy Zones (32) Intelligent Guard Tour	Motion Detection Privacy Zones (32) Intelligent Guard Tour
Power	24 VAC and PoE+ 802.3at, Class 4	24V AC
Inputs	4	4
Outputs	1	1
Audio	PCM. G711A. G711U	PCM. G711A. G711U
Model Numbers	IPS02P6ANBTT IPP02P6ANBTT	IPS02P6OCWTT IPS02P6BCWTT IPS02P6OSWTT IPS02P6BSWTT IPP02P6OCWTT IPP02P6BCWTT IPP02P6OSWTT IPP02P6BSWTT



PRO CAMERA GUIDE	
Pro Thermal EST	
	
Detector type	Amorphous-silicon Bolometers
Pixel pitch	17µm
Infrared spectral range	8~14µm
Effective pixels	384 × 288
Noise equivalent temperature difference	<50mk
Thermal response time	≈40ms
Lens type	Fixed
Focal length	12mm @ F1.0
Field of view	Horizontal 29.7°, Vertical 22.5°
Imager	1 / 2.7" 5MP Progressive CMOS
Effective pixels	2592 x 1944
Minimum illumination	Color 0.012 Lux @ F2.0; B/W 0.0012 Lux @ F2.0, 0 Lux with IR
Lens type	Fixed
Focal length	8mm
Field of view	Horizontal 38°, Vertical 27.5°
Video compression	H.264 / H.265 / MJPEG
Resolution	Visible: 5MP (2592x1944), 4MP (2592×1520), 2560x1440, 3MP (2304×1296), 1080P (1920×1080), 720P (1280×720), D1 (720x576), 480x240, CIF (352x240) Thermal: 704x576 (Upscaled from 384x288)
Maximum frame rate	Visible: 30 fps @ all resolution. Thermal: 30 fps @ 704x576 (Upscaled)
Audio communication	1-CH audio input; 1-CH built-in speaker
Day and night	True Day/Night with Auto IR Cut Filter
Backlight compensation	BLC/HLC
Effective ir distance	20 metres (65.6 feet)
Video privacy	4 zones video mask
Intelligent video analytics	Visible Camera: Line crossing direction, Object Abandoned / Removed, Enter an area, Motion detection Thermal Camera: Elevated Skin Temperature Detection
Detection mode	Multiple point forehead skin temperature detection
Effective distance	1~2M (3.3 ~ 6.6 feet) in Single Face usage mode
Temperature alarm	Over temperature / Temperature anomaly
Accuracy	±0.2°C (±0.4°F) in Single Face usage mode with blackbody calibration
Audio	1-CH audio input; 1-CH built-in speaker
Alarm	Alarm in/out, Built-in sound-light alarm, Customizable voice alarm
Power supply	DC12V / PoE
Power consumption	<9W
Dimensions (LxWxH)	10.94 inches (278mm) x 3.78 inches (96mm) x 3.50 inches (89mm)
Net weight	2.6lbs, 1.2Kg
Model Numbers	IPT05-B29-BNDA3





## Flex

With a variety of affordable form factors, the Flex product line includes features such as 120dB Wide Dynamic Range to maintain image detail in varying light conditions, motion detection for intruder alerts, and 3D noise reduction. Next generation high-resolution mini-domes, compact mini-dome, bullet, and box cameras feature Illustra IntelliZip, which provides intelligent bandwidth management to reduce video

storage space without compromising quality. These cameras can be strategically placed to blend into a range of interior and exterior locations including a recessed mounting option for the mini-dome cameras.



### Flex 3MP & 8MP Mini-Domes

The Flex Mini-Domes are available in 3MP and 8MP resolutions to meet a variety of installation requirements. The versatile 3MP model is a True Day/Night camera that can efficiently manage bandwidth resources while streaming high-quality video. The increased amount of pixels per foot in the 4K form factor make them ideal for installation in wide areas such as loading docks and airport terminals.

- True Day/Night functionality for quality video recording in low light conditions
- True Wide Dynamic Range to simultaneously view high contrast areas
- P-Iris for image clarity in changing light conditions
- Motion detection for instant alerts of intruders
- Rated IP67 and IK10 for weather and vandal resistance
- Recessed mounting option for versatile installations
- ONVIF Profile S compliant for simplified video streaming integrations



### Flex 3MP & 8MP Bullet

Featuring a tough exterior, the Illustra Flex Bullet is ideal for exterior applications or harsh environments. With a sleek IP67 rating to protect against dust and water damage, this camera is perfect for areas where it is exposed to the elements.

- True Day/Night functionality for quality video recording in low light conditions
- True Wide Dynamic Range to simultaneously view high contrast
- P-Iris for image clarity in changing light conditions
- Motion detection for instant alerts
- IR illuminators for clear images in low light conditions
- ONVIF Profile S compliant for simplified video streaming integrations



### Flex 3MP & 8MP Box

The Flex Box camera is available in 3MP and 8MP resolutions, and is best suited for a variety of indoor, commercial environments looking for a cost effective option. The 3MP form factor is ideal for small to medium sized businesses while the 4K version is the high-resolution, high-performance option that avoids unwanted attention.

- True Wide Dynamic Range to simultaneously view high contrast areas
- P-Iris for image clarity in changing light conditions
- True Day/Night functionality for quality video recording in low light conditions
- ONVIF Profile S compliant for simplified video streaming integrations





## Flex IR PTZ

With its 30x optical and 12x digital magnification, the IR PTZ is capable of effectively managing video quality at a distance of up to 1,000ft (305m). Powerful IR LEDs on the outdoor model allow for a night scene illumination of up to 490ft (149m). Packaged in a bubble-free, environmentally sealed, and vandal-resistant design, the Flex IR PTZ maximizes video quality at any tilt angle.

- 2MP resolution for HD quality images
- True Day/Night functionality for quality video recording in low light conditions
- True Wide Dynamic Range balances challenging lighting conditions
- IR illumination for clear images in low light conditions on indoor and outdoor models
- Motion detection instantly alerts operators to intruders
- ONVIF Profile S compliant for simplified video streaming integrations



## Flex 3MP Compact Mini-Dome

The Flex Compact Mini-Dome provides crisp and clear high-definition video at 3MP resolution and is ideal for applications such as retail stores, commercial buildings, healthcare facilities, and banks where discretion is important.

- True Wide Dynamic Range to simultaneously view high contrast
- Motion detection for instant alerts of intruders
- Rated IP67 and IK10 for weather and vandal resistance
- ONVIF Profile S compliant for simplified video streaming integrations







## Flex Multi-sensor NEW




The Illustra Flex multi-sensor camera is ideal for applications that require a flexible, cost-effective surveillance solution that provides wide area coverage along with detailed images. With one IP address and one network cable, the four (4x4MP) multi-directional camera heads provide a flexible, cost-effective solution for multi-directional surveillance. Camera heads can be positioned and angled independently to provide 360 degree coverage in four separate non-stitched streams.

- Wide area coverage from a single camera
- 4x4MP multidirectional camera heads for 360 coverage
- Each camera head supports up to three streams
- H.264 addresses network and storage cost concerns
- Flexibility to choose between overview and detailed images for each stream
- Independently set up the positioning, angle and rotation of each camera head
- Field swappable lens modules.
- TWDR (Multi-shutter)
- IP66 rated
- Vandal Resistant IK10
- PoE+ / 12VDC NDAA Compliant





FLEX CAMERA GUIDE					
		Flex 8MP Indoor Mini-Dome	Flex 8MP Outdoor Mini-Dome	Flex 3MP Indoor Mini-Dome	Flex 3MP Outdoor Mini-Dome
					
Max Frame Rate/Stream		60ips @ 2MP	60ips @ 2MP	60ips @ 2MP	60ips @ 2MP
Max Resolution		3840x2160 16:9	3840x2160 16:9	2048x1536 4:3	2048x1536 4:3
CODEC		MJPEG/H.264/H.265	MJPEG/H.264/H.265	MJPEG/H.264/H.265	MJPEG/H.264/H.265
Illustra IntelliZip		Yes	Yes	Yes	Yes
Video Streams		Triple	Triple	Triple	Triple
Imager		1/2.5"	1/2.5"	1/2.8"	1/2.8"
Analog Video Output		Yes	Yes	Yes	Yes
Day/Night		True Day/Night	True Day/Night	True Day/Night	True Day/Night
Minimum Illumination Lux	Color	0.03 Lux	0.03 Lux	0.03 Lux	0.03 lux
	B/W	0.0003 Lux	0.0003 Lux	0.001 Lux	0.001 lux
	IR	0.0 Lux	0.0 Lux	N/A	0.0 lux
IR Illuminator Range		N/A	82 ft	N/A	82 ft
Focal Length		3.4-9mm	3.4-9mm	2.8-12mm	2.8-12mm
Field of View (H/V)	WA	104°/56°	104°/56°	98°/71°	98°/71°
	TP	42°/24°	42°/24°	35°/26°	35°/26°
Auto Focus / Motorized Zoom		Motorized Varifocal/Focus P-iris control	Motorized Varifocal/Focus P-iris control	Motorized Varifocal/Focus P-iris control	Motorized Varifocal/Focus P-iris control
Onboard Analytics		Motion Detection (3) Privacy Zones (9) Blur Detection	Motion Detection (3) Privacy Zones (9) Blur Detection	Motion Detection (3) Privacy Zones (9) Blur Detection	Motion Detection (3) Privacy Zones (9) Blur Detection
VideoEdge TrickleStor		Yes	Yes	Yes	Yes
Audio Input/Output		Yes	Yes	Yes	Yes
Alarm Input/Output		1/1	1/1	1/1	1/1
Wide Dynamic Range		100dB	100dB	120dB	120dB
Onboard Storage (SD Card)		microSDXC 128GB	microSDXC 128GB	microSDXC 128GB	microSDXC 128GB
Power Input		24VAC, PoE IEEE 802.3af Class 2	24VAC, PoE IEEE 802.3af Class 3	24VAC, PoE IEEE 802.3af Class 2	24VAC, PoE IEEE 802.3af Class 3
Power Draw		6W	12W	6W	12W
Operating Temperature		-4°F to 122°F	-22°F to 122°F Extended: 140°F 4hrs/day	-4°F to 122°F	-22°F to 122°F Extended: 140°F 4hrs/day
Dimensions		4.8 x 4.2in	4.8 x 4.2in	4.8 x 4.2in	4.8 x 4.2in
Outdoor Rating		IP67	IP67	No	IP67
Vandal Resistant		IK10	IK10	IK10	IK10
Model Numbers		IFS08D2ICWTT	IFS08D2OCWIT	IFS03D1ICWTT	IFS03D1OCWIT

FLEX CAMERA GUIDE				
		Flex 3MP Compact Mini-Dome	Flex 8MP Bullet	Flex 3MP Bullet
				
Max Frame Rate/Stream		60ips @ 2MP	60ips @ 2MP	60ips @ 2MP
Max Resolution		2048x1536 4:3	3840x2160 16:9	2048x1536 4:3
CODEC		MJPEG/H.264/H.265	MJPEG/H.264/H.265	MJPEG/H.264/H.265
Illustra IntelliZip		Yes	Yes	Yes
Video Streams		Triple	Triple	Triple
Imager		1/2.8"	1/2.5"	1/2.8"
Analogue Video Output		No	Yes	Yes
Day/Night		Soft Day/Night	True Day/Night	True Day/Night
Minimum Illumination Lux	Color	0.01 Lux	0.03 Lux	0.03 Lux
	B/W	N/A	0.0003 Lux	0.001 Lux
	IR	N/A	N/A	0.0 Lux
IR Illuminator Range		N/A	N/A	82 ft
Focal Length		2.8mm	3.4-9mm	2.8-12mm
Field of View (H/V)	WA	102°/77°	104°/56°	98°/71°
	TP	N/A	42°/24°	35°/26°
Auto Focus / Motorized Zoom		Fixed	Motorized Varifocal / Focus P-iris Control	Motorized Varifocal / Focus P-iris Control
Onboard Analytics		Motion Detection (3) Privacy Zones (9) Blur Detection	Motion Detection (3) Privacy Zones (9) Blur Detection	Motion Detection (3) Privacy Zones (9) Blur Detection
VideoEdge TrickleStor		Yes	Yes	Yes
Audio Input/Output		No	Yes	Yes
Alarm Input/Output		N/A	1/1	1/1
Wide Dynamic Range		120dB	100dB	120dB
Onboard Storage (SD Card)		microSDXC 128GB	Micro SDXC Slot Up to 128GB	microSDXC 128GB
Power Input		PoE IEEE 802.3af Class 2	PoE IEEE 802.2af Class 3, 24VAC	PoE IEEE 802.2af Class 3, 24VAC
Power Draw		6W	15W	15W
Operating Temperature		-40°F to 122°F	-40°F to 122°F	-40°F to 122°F
Dimensions		4.3 x 2.0in	Ø3.05 x 9.25in	2.8 x 8.0in
Outdoor Rating		IP67	IP68	IP68
Vandal Resistant		IK10	IK10	IK10
Model Numbers		IFS03CFOCWST	IFS08B2ONWITA	IFS03B1BNWIT



FLEX CAMERA GUIDE

	Flex 8MP Box	Flex 3MP Box	Flex IR PTZ Indoor	Flex IR PTZ Outdoor
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Max Frame Rate/Stream	60ips @ 2MP	60ips @ 2MP
Max Resolution	3840x2160 16:9	2048x1536 4:3
CODEC	MJPEG/H.264/H.265	MJPEG/H.264/H.265
Illustra IntelliZip	Yes	Yes
Video Streams	Triple	Triple
Imager	1/2.5"	1/2.8"
Analog Video Output	Yes	Yes
Day/Night	True Day/Night	True Day/Night
Minimum Illumination (Lux)	Color	0.03 Lux
	B/W	0.0003 Lux
	IR	N/A
IR Illuminator Range	N/A	N/A
Focal Length	3.4-10mm (LIRC3410PCS)	3-10.5mm (LIRC3105PCS)
Field of View (H/V)	WA	N/A
	TP	N/A
Auto Focus / Motorized Zoom	P-Iris Control	Manual Varifocal
Onboard Analytics	Motion Detection (3) Privacy Zones (9) Blur Detection	Motion Detection (3) Privacy Zones (9) Blur Detection
VideoEdge TrickleStor	Yes	Yes
Audio Input/Output	Yes	Yes
Alarm Input/Output	1/1	1/1
Wide Dynamic Range	100dB	120dB
Onboard Storage (SD Card)	microSDXC 128GB	microSDXC 128GB
Power Input	PoE IEEE 802.2af Class 3, 24VA	PoE IEEE 802.2af Class 3, 24VA
Power Draw	9W (PoE) 7W (AC24V) 11W (DC12V)	9W (PoE) 7W (AC24V) 11W (DC12V)
Operating Temperature	-4°F to 122°F	-4°F to 122°F
Dimensions	2.8 x 3.9 x 2.4in	2.8 x 3.9 x 2.4in
Outdoor Rating	No	No
Vandal Resistant	No	No
Model Numbers	IFS08XNANWTT	IFS03XNANWTT



Min. Illumination Lux	0.2 Lux at 1/30s; 0.03 Lux at 1/4s color 0.001 Lux at 1/4s B/W 0.0 Lux with IR	0.2 Lux at 1/30s; 0.03 Lux at 1/4s color 0.001 Lux at 1/4s B/W 0.0 Lux with IR
Lens - Optical Zoom	Optical - 30x, Digital 12x	Optical - 30x, Digital 12x
Adaptive IR	Yes	Yes
IR Distance	82ft	492ft
Wide Angle (FoV)	56°/45°	56°/45°
Telephoto (FoV)	2.1°/1.6°	2.1°/1.6°
Max. Video Resolution	1080p	1080p
Max. Frame Rate	60ips @ 2MP	6:44:00 PM
Manual Pan/Tilt Speed	0.1° ~ 90°/s	0.1° ~ 90°/s
Preset Pan/Tilt Speed	Pan Speed: 0.1°/s ~ 240°/s Tilt Speed: 0.1° ~ 160°/s	Pan Speed: 0.1°/s ~ 240°/s Tilt Speed: 0.1° ~ 160°/s
Pan Travel	360° continuous	360° continuous
Tilt Travel	-15° ~ +90°	-15° ~ +90°
Patterns	17	17
Onboard Analytics	Motion Detection Privacy Zones (8) Blur Detection	Motion Detection Privacy Zones (8) Blur Detection
Power	PoE+ 802.3at Class 4, 24VAC	UPoE 802.3bt Class 6, 24VAC
Audio	Bi-Directional	Bi-Directional
Model Numbers	IFS02P6INWITB	IFS02P6ONWITB

FLEX CAMERA GUIDE

	Multi-sensor
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Video Compression		H.264, MJPEG
Max Frame Rate		30 fps
Resolution & Aspect Ratio H264: Stream 1 @ 30 fps		2560x1440 16:9 2304x1296 16:9 1920x1080 16:9 (1080p) 1280x720 16:9 (720p)
Resolution & Aspect Ratio H264: Stream 2 @ 30 fps		640x480 4:3 (VGA) 704x576 D1 PAL 704x480 D1 NTSC 352x288 CIF PAL 352x240 CIF NTSC
Resolution & Aspect Ratio MJPEG: Stream 3 @ 10 fps		1280 x 720 16:9 (720p) 800x600 4:3 640x480 4:3 (VGA) 768x432 16:9 704x576 D1 PAL 704x480 D1 NTSC 352x288 CIF PAL 352x240 CIF NTSC
Video Streams		Triple Stream
Imager		Fixed
Aperture		f/2
Focal Length		2.8mm
Minimum Illumination	Color	0.41 Lux
	B/W	0.022 Lux
Wide Dynamic Range		True WDR 120DB
Day/Night		True Day/Night
Motion Detection Zones		Up to four areas per sensor
Privacy Zones		16 per sensor
Alarm Input/Output		1/1
Card Support		Micro SD, Micro SDHC, Micro SDXC (128GB Max)
Power Input		Power over Ethernet (PoE+) IEEE 802.3at Type 2 Class 4, 12VDC
Maximum Power Draw		PoE+ 17.5W, 12VDC 16.5W
Dimensions (W x H)		Ø7.6 in x 3.3 in (Ø 192 mm x 84 mm)
Weight		4.4 lbs (2.0 kg)
Outdoor Rating		IP66
Vandal Resistant		IK10
Model Numbers		IFS16-M10-BT03



# Essentials

## Essentials

The Essentials varifocal and fixed cameras are ideal for economical deployments where simplicity and quality video are a necessity. The limited feature set makes them easy to configure and use. The 2MP product offering maintains fine video streaming and recording capability.

### Essentials Bullet & Mini-Dome Fixed & Varifocal **NEW**

The Illustra Essentials Bullet and Mini-Dome cameras can withstand even the harshest environments and produce amazing high-resolution video in a variety of lighting environments. Both form factors are available in 2MP resolutions and are equipped with IR LED's for low-light applications. The cameras capture video in a variety of lighting conditions with features such as True Day/Night and Wide Dynamic Range.





- 2 megapixel resolutions at 30 frames per second
- H.264, H.265 and MJPEG encoding
- Multiple network monitoring
- 2.8mm fixed lens or 2.7-13.5mm varifocal lens
- IR illuminators for clear images in low light conditions
- True Day/Night functionality for quality video recording in low light conditions
- True Wide Dynamic Range to simultaneously view high contrast areas
- Privacy Zones
- This product is subject to certain restrictions on procurement, use, funding or contracting by the United States federal government as set forth in Section 889 (Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019.



Essentials



ESSENTIALS CAMERA GUIDE

		Essentials Gen4 2MP Outdoor Mini-Dome	Essentials Gen4 2MP Mini-Bullet	Essentials Gen4 2MP Varifocal IP Bullet	Essentials Gen4 2MP Varifocal Mini-Dome
					
Max Frame Rate/ Stream	MAIN	30ips @ 2MP	30ips @ 2MP	30ips @ 2MP	30ips @ 2MP
	SUB	30ips @ D1	30ips @ D1	30ips @ D1	30ips @ D1
Max Resolution		1080p	1080p	1080p	1080p
CODEC		H.264/H.265/MJPEG	H.264/H.265/MJPEG	H.264/H.265/MJPEG	H.264/H.265/MJPEG
Illustra IntelliZip		No	No	No	No
Imager		1/2.8"	1/2.8"	1/2.8"	1/2.8"
Day/Night		True Day/Night with ICR	True Day/Night with ICR	True Day/Night with ICR	True Day/Night with ICR
Minimum Illumination (Lux)	Color	0.08 Lux	0.08 Lux	0.08 Lux	0.08 Lux
	IR	0 Lux	0 Lux	0 Lux	0 ux
IR Illuminator Range		82ft	98ft	98ft	98ft
Focal Length		2.8mm	2.8mm	2.7-13.5mm	2.7-13.5mm
Horizontal Field of View		110°	110°	Wide angle 100° Telephoto 34°	100°
Auto Focus / Motorized Zoom		Manual	Manual	Manual	Manual
Audio Input/Output		No	No	No	No
Alarm Input/Output		No	No	No	No
Wide Dynamic Range		True WDR 120dB	True WDR 120dB	True WDR 120dB	True WDR 120dB
ONVIF-Compliant		Profile S/G/Q	Profile S/G/Q	Profile S/G/Q	Profile S/G/Q
Onboard Storage		SDXC up to 256GB	SDXC up to 256GB	SDXC up to 256GB	SDXC up to 256GB
VideoEdge TrickleStor		No	No	No	No
Power Input		DC12V, PoE (802.3af)	DC12V, PoE (802.3af)	DC12V, PoE (802.3af)	DC12V, PoE (802.3af)
Power Draw		<7.3W	<8.3W	<9.9W	<9.9W
Operating Temperature		-22°F to +140°F	-22°F to +140°F	-22°F to +140°F	-22°F to +140°F
Dimensions		Ø4.33in x 3.29in (Ø110mm x 82mm)	77mm x 84mm x 147mm (3.03in x 3.3in x 5.78in)	3.03in x 3.3in x 6.92in (77mm x 84mm x 176mm)	Ø4.88in x 4.45in (Ø124mm x 113mm)
Outdoor Rating		IP67	IP67	IP67	IP67
Vandal Resistant		IK10	No	No	IK10
Model Numbers		IES02D10OI04	IES02B10BI04	IES02B12BI04	IES02D12OI04

Frictionless Access



Insight Intelligent Frictionless Access 

The Illustra Insight combines the quality surveillance of a leading-edge facial recognition camera integrated with a comprehensive access control device. Engineered with deep learning algorithms and cyber security protocols the device is designed to create a frictionless, unobtrusive experience for all. Illustra Insight utilises two imagers to create a 3D facial topology that can quickly distinguish between an actual human and a picture of a human, greatly increasing accuracy while reducing false positives.

The wider field of view achieved by building the sensor into a camera allows faces to be detected at varying heights and locations within the field of view. The dual-lens increases the accuracy of authentication and helps reduce unwanted personnel accessing restricted areas.

Designed for seamless integration with JCI access brands, CEM Systems, Software House and Kantech. Access control agnostic, Illustra insight can be interconnected via traditional and modern wiring protocols into any access system that has on-board Wiegand and OSDP.

- Enhanced Facial Detection
- Improved flow of users with unobtrusive, frictionless and secure access control
- Anti-spoofing liveness detection solution that eliminates the risk of spoofing via a photographic image

- The wider field of view allows faces to be detected at varying heights and locations within the field of view to ensure an unobtrusive experience for valid users.
- Personalised language greeting for unique user experience
- Integrated colour LEDs provide intuitive feedback
- Cyber security protection with no Ethernet at the door

*Important Notice: The Tyco Frictionless Access Solution requires the purchase of both Illustra Insight (II-AN00INT01) and a Tyco AI Frictionless License (AI-FA-01). Each entrance will require one Camera and one Tyco AI Frictionless license. Please note that the server to run Tyco AI is not included or provided by Tyco. Please contact your account manager or visit <https://illustracameras.com/insight/> for details of the minimum server specification required.*

*Certain functions of the software may require compliance by you (the customer) with local, national and international laws and regulations. You (the customer) are solely responsible for compliance with all applicable laws and regulations relating to your use of this Software and those functions, including but not limited to those laws and regulations pertaining to personal data protection, privacy and security, any laws relating to the collection and sharing of facial recognition with third parties, or any laws requiring notice or consent of persons with respect to Your use of facial recognition.*



## FLEX CAMERA GUIDE

## Flex 8MP Box



Video Compression		H.264 & MJPEG
Max Frame Rate		20 fps
Resolution & Aspect Ratio		1920x1080 (1080p) 16:9 Stereo or 3840x1080
Video Streams		Single or Dual Concatenated
Imager		Progressive Scan, CMOS, 1/3.2" 13MP (4:3)
Image Orientation Settings		None, Mirror, Flip, Flip & Mirror
Lens Type		Fixed, Fixed Iris/Aperture 2.8mm
Focus Control		Fixed
Focal Length		2.8mm
Field of View (HxV)		85°/63°
Shutter Speed		1/4 - 1/10,000
Minimum Illumination	Lens Aperture	F2.8
IR Illumination		Yes
IR Distance		2m
IR Filter		850nm
Dynamic Range		69dB
Day/Night		Dual Concatenated only
Privacy Zones		3
Face Recognition		Through Tyco AI or Cloud Service
Turnstile mode		Yes
Audio		Bi-Directional Full Duplex
Simultaneous Users		3
Supported Languages		Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, English (default), French, German, Hungarian, Italian, Japanese, Korean, Netherlands, Polish, Portuguese, Russian, Spanish, Swedish, Turkish
Ethernet Interface		10/100/1000Mbps (BaseT), RJ45, Auto-Negotiation
Supported Protocols		TCP/IP, IPv4, TCP, UDP, HTTP, DHCP, DNS, DDNS, RTP, TLS, RTSP, ICMP, Unicast, NTP, WS-Security, CIDS, FSTP, UPnP™, SIP
Satellite Camera Connection		Cat6 Shielded patch cable, Max distance 10 Meters, dd proprietary protocol
Access Control Interface 1		Wiegand (D0, D1, LED Rd,Yel,Gn) Cable Type - Belden 6543PA or equivalent
Access control Interface 2		OSDP V2 (RS485 Half Duplex) Cable Type - Belden 82723 or equivalent
Web Browsers		IE9 & above, Firefox, Safari, Chrome
Security		Secure Boot, TLS 1.2 (256 bit cipher minimum); RTSP Authentication; Role-Based Access Control
Power		Power over Ethernet IEEE 802.3bt Type 3 Class 5; Max Draw: 40W
Dimensions (HxWxD)		Satellite Camera Module: 4.1 x 4.1 x 2.2 in (104 x 104 x 56 mm) Control Unit: 10.2 x 7.3 x 4.3 in (260 x 187 x 109 mm)
Weight		Satellite Camera Module: 0.37kg Contol Unit: 2.2kg
Housing Color		Satellite Camera Module: Black Contol Unit: Beige
Operating Temperature		Satellite Camera Module: -4°F to 104°F (-20°C to 40°C) Contol Unit: 25°F to 104°F (-20°C to 40°C)
Humidity		0 to 90% Non-Condensing
Plenum Rated – Control Unit		Yes
Outdoor Rating		Satellite Camera Module: IP40 Contol Unit: IP40
Safety		EN62368-1
Emissions		FCC CFR 47 Part 15 Class A; EN55032 Class A; ICES-003
Immunity		EN50130-4; EN 61000-3-2; EN 61000-3-3
Fire Plenium Rating		UL-2043; CAN/ULC S142
Environment		RoHS; WEEE
Model Numbers		II-AN00INT01



Pro Gen3 2MP, 3MP, 5MP, 8MP Mini-Domes		Pro Gen3 Bullet	Pro 5MP Fisheye LT	Pro 12MP Fisheye	Pro 2MP & 5MP Mini-Domes		Pro 2MP Micro
Pro 610/600 Mini-Domes		Pro 2MP 30x PTZ			Pro Thermal EST		Flex 3MP & 8MP Bullet
		<div>Indoor</div> <div>Outdoor</div>					
Flex 3MP & 8MP Mini-Dome		Flex 2MP IR PTZ & Bubble PTZ		Flex 3MP Box	Flex 4K Box	Flex/Pro 3MP Compact Mini-Dome	Flex Multi-sensor
Essentials 2MP Gen4 VF Mini-Dome & Outdoor Mini-Dome		<div>IP5MDDEBPLATE Plate Mount</div> <div>Compatible with Pro Gen3 Mini-Dome, Pro Compact Mini-Dome, Flex Gen2 Mini-Dome, Flex Compact Mini-Dome, and Flex Gen2 Bullet.</div>					





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### About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit [www.illustracameras.com](http://www.illustracameras.com) or follow us on Facebook, Twitter, and LinkedIn.