

# Flex Multi-Sensor

## Multidirectional 4x 4MP camera with 360 degree coverage



### Key Features

- 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

### Monitoring multiple directions simultaneously from a single camera

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.

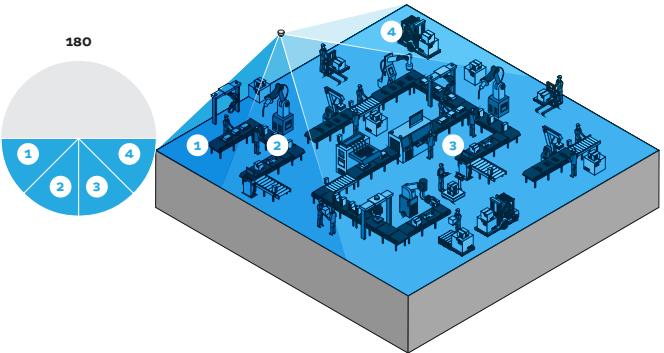
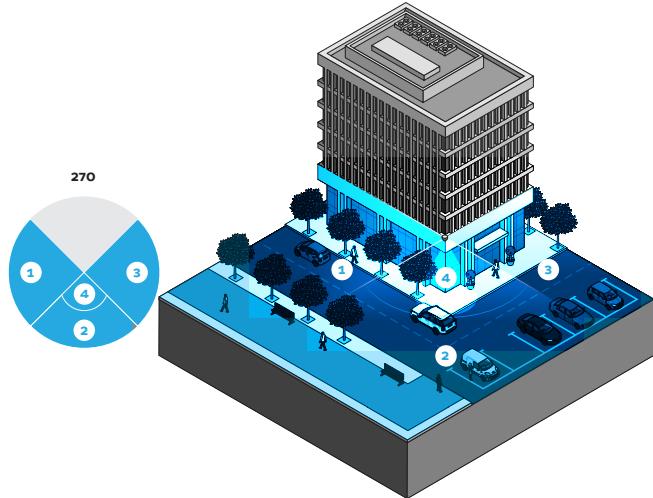
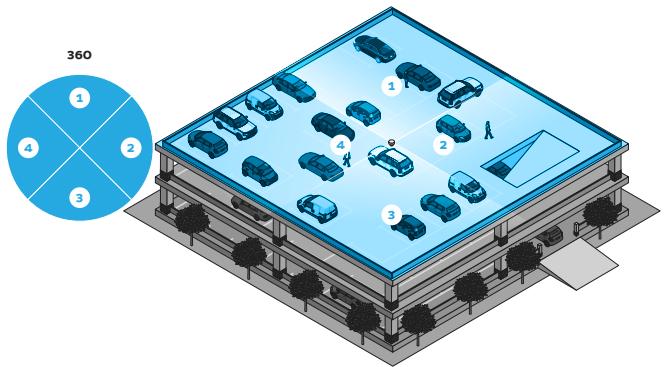
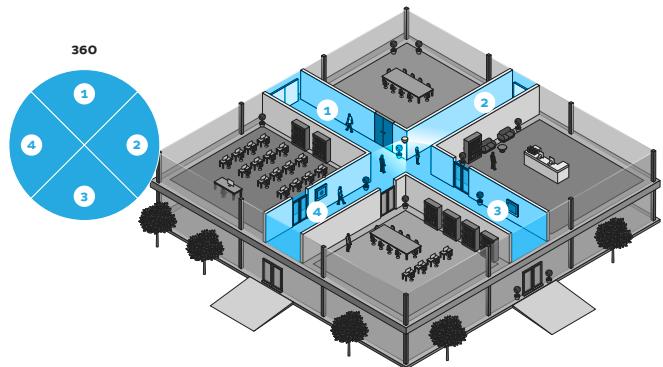
With one IP address and one network cable, the four (4x4MP) multidirectional camera heads provide a flexible, cost-effective solution for multidirectional surveillance. Camera heads can be positioned and angled independently to provide 360 degree coverage in four separate non-stitched streams.

### Flexible, independent, easy camera placement and positioning

The Flex multi-sensor's magnetic base enables each sensor to be independently placed, providing operators with a multitude of configuration options. The three axis gimbal on each sensor then allows the Field of View (FoV) configuration to be fine tuned with up to 60 degree tilting and provides a total field of view of 180, 270 or 360 degrees.

## Flexible use cases

Illustra Flex multi-sensor cameras have been designed to allow for personalization for multitude of use cases and any field of view (FoV). From an internal 360 degree hall way or parking lot installation to external 270 degree corner installation, and even a 180 degree assembly line installation.



## Safeguard against cyber attacks across devices

The Illustra Flex Multi-Sensor has been designed with cybersecurity at the forefront. Our products exceed the standards of the Johnson Controls Cyber Solutions Product Security Program. Our security mindset starts with a holistic approach, including rapid incident response to meet comprehensive and evolving cybersecurity environments.

## Powerful technology to increase confidence and savings

The Flex product family cameras feature built-in technology that ensure efficient recording. Multiple streams of H.264 and MJPEG video compression provide excellent image clarity while efficiently managing bandwidth to reduce storage costs.

## Integration

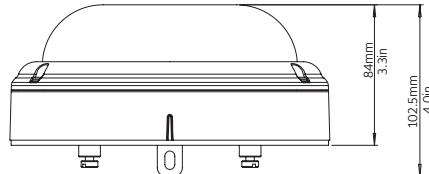
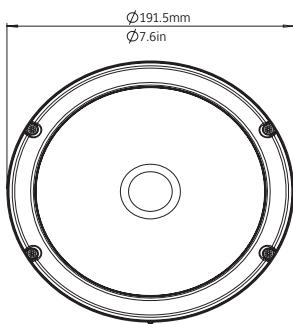
The Illustra Flex Multi-Sensor is compatible with our VideoEdge NVR, VideoEdge Hybrid, victor Unified Client, ExacqVision recorders and Clients.

## Specifications

<b>Operational</b>	
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	4 x 4MP 1/3" CMOS Sensor
Lens Type	Fixed
Aperture	f/2
Focal Length	2.8mm
Field of View (H/V)	90° / 55°
Shutter Speed	Auto / Manual (1/15 ~ 1/32000), Anti-Flicker, Slow Shutter(1/2,1/3,1/5,1/6,1/7.5,1/10)
Minimum Illumination	
Color	0.41 Lux
B/W	0.022 Lux
Wide Dynamic Range	True WDR 120DB
Day/Night	True Day/Night
ONVIF-Compliant	Profile S
Motion Detection Zones	Up to four areas per sensor
Privacy Zones	16 per sensor
Alarm Input/Output	1/1
Analog Video Output	CVBS 1Vp-p, 4:3 aspect ratio (test port only)
Bi-directional audio	1/1
Simultaneous Users	5
Supported Languages	English, Japanese, Korean
SD card event buffering	Yes
SD card event download	Yes
SD card continuous recording	Yes
<b>Network</b>	
Ethernet Interface	1000 Base-T (1Gbps)
Supported Protocols	TCP/IP, UDP, AutoIP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2/v3(MIB-2), ONVIF
<b>Configuration Management</b>	
WEB Server	Yes

Security	HTTPS(SSL), IP filtering, 802.1x, Digest Authentication
<b>Onboard Storage</b>	
Card Support	Micro SD, Micro SDHC, Micro SDXC (128GB Max)
Pre-Alarm Recording	Up to 5 seconds
Recording Format	TS
Recording Trigger	Date, Time, Event (Motion, Alarm, Network Disconnected, Temperature Critical)
<b>Electrical</b>	
Power Input	Power over Ethernet (PoE+) IEEE 802.3at Type 2 Class 4, 12VDC
Maximum Power Draw	PoE+ 17.5W, 12VDC 16.5W
<b>Physical</b>	
Dimensions (W x H)	Ø7.6 in x 3.3 in (Ø 192 mm x 84 mm)
Weight	4.4 lbs (2.0 kg)
Housing Color	White (Pantone RAL 9003)
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Humidity	10-90% RH(Non-Condensing)
Outdoor Rating	IP66
Vandal Resistant	IK10
<b>Regulatory</b>	
Safety	UL 62368-1
Emissions	FCC, Class A; EN 55032, Class A
Immunity	EN 55130-4
Enclosure	IP66, IK10
Environment	RoHS
NDAA	Yes

## Flex Gen 2 Multi-Sensor



Accessory Type	Image	Model Number	Description	Dimensions	Color
Wall Mount		IBWS-M-ISWB-0	Illustra Flex Multi-sensor Wall Mount, White	8.90 x 4.49 inches 226 x 114 mm	RAL 9003
Junction Mount		IBJB-M-ISWB-0	Illustra Flex Multi-sensor Junction Box, White	8.86 x 2.36 inches 225 x 60 mm	RAL 9003
In-Ceiling Recess Mount		IBCR-M-ISWT-0	Illustra Flex Multi-sensor Ceiling Recessed Mount, White	12.40 x 4.76 inches 315 x 121 mm	RAL 9003
Ceiling Pendant Mount		IBPN-M-IS12-0	Illustra Flex Multi-sensor Ceiling Pendant Mount, White	7.99 x 10.94 inches 203 x 278 mm	RAL 9003
Replacement Bubble (Clear)		IABL-M-ISC-0	Illustra Flex Multi-sensor Replacement Bubble, Clear with White trim		RAL 9003

## Ordering information

Model Number	Description
IFS16-M10-BT03	Illustra Flex 4x 4MP Multisensor, 2.8mm, Indoor/Outdoor, IP66, IK10, TDN, TWDR

Please note: A mount is required for installation of the Multisensor camera. See Accessories for available mounting options.

## Accessories

Model Number	Description
IBWS-M-ISWB-0	Illustra Flex Multisensor Wall Mount, White
IBJB-M-ISWB-0	Illustra Flex Multisensor Junction Box, White
IBCR-M-ISWT-0	Illustra Flex Multisensor Ceiling Recessed Mount, White
IBPN-M-IS12-0	Illustra Flex Multisensor Ceiling Pendant Mount, White
IABL-M-ISC-0	Illustra Flex Multisensor Replacement Bubble, Clear with White trim

## 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.

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