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Data Sheet

Illustra
Flex IR PTZ

Key Features

- 2MP resolution for HD quality images
- True Day/Night and True Wide Dynamic Range produce quality video regardless of lighting conditions
- Operating temperature for outdoor model sustains as low as -40°F and up to 122°F for installation into a variety of environments
- IP66 and IK10 rated for weather and vandal resistance
- ONVIF Profile S conformant for simplified integrations with a variety of manufacturers

Effectively Manage Vast Surveillance Areas while Streaming High-Quality Video

The Flex IR PTZ is ideal for applications that require reliable, expansive functionality at an economical price point. 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 (300m). Powerful IR LEDs on the outdoor model allow for a night scene illumination of up to 500ft (150m). Packaged in a bubble-free, environmentally sealed, and vandal-resistant design, the Flex IR PTZ maximizes video quality at any tilt angle. Additionally, the Zoom Adjusted Protocol (ZAP) automatically adjusts pan and tilt speeds scaled in proportion to zoom position.

Safeguard Against Cyber Attacks Across Devices

Illustra Flex IP cameras have been designed to be resilient against cyber-threats. This solution has a security overview page designed to help administrators quickly determine if the proper levels of protection are applied. Safeguard controls include

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an enhanced security mode which forces the use of complex, non-default passwords and encrypted communications. Illustra Flex IP cameras adhere to the rigorous standards of the Tyco Cyber Protection Product Security Program. The holistic approach to cyber protection 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.

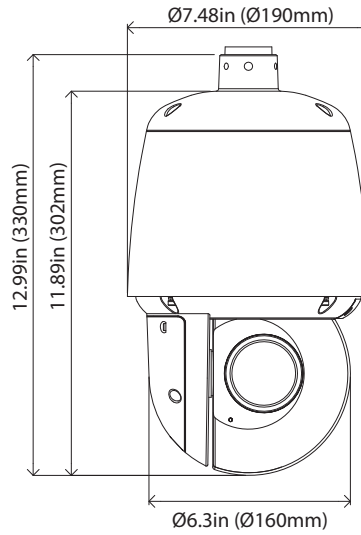## Powerful Technology to Increase Confidence and Savings

The Flex product family cameras feature built-in technology that ensure efficient recording and smart bandwidth management. When paired with a VideoEdge or exacqVision NVR, edge-based failover redundancy allows video recording to continue on the camera when an outage occurs, then when connection is restored transfers video back to the media database for seamless viewing later. Illustra® IntelliZip continuously monitors and optimizes system streaming parameters to match the level of activity within the camera's field of view.

Specifications

Operational	Indoor	Outdoor
Video Compression	H.264 / H.264+ IntelliZip / H.265 / MJPEG	
Max Frame Rate	60ips @ 2MP	
Resolution & Aspect Ratio	1920 x 1080 (1080p) 16:9 1600 x 900 (HD+) 16:9 1280 x 720 (720p) 16:9 1024 x 576 (PAL+) 16:9 960 x 540 (qHD) 16:9	800 x 450 16:9 640 x 360 (nHD) 16:9 480 x 270 16:9 320 x 180 16:9 160 x 90 16:9
Video Streams	Triple Streaming with a Maximum of 5 Concurrent Shared Streams	
Imager	Progress Scan RGB CMOS 1/3"	
Image Orientation Settings	Auto Flip	
Lens Type	IR Optical Corrective, Motorized Varifocal	
Focus Control	Motorized, Auto Focus	
Aperture	F/1.6(W) - F/4.7(T)	
Focal Length	4.3 - 129mm	
Field of View (H/V)		
Wide Angle	65°/38°	
Telephoto	2.4°/1.4°	
Shutter Speed (Auto)	1/30(25) - 1/30,000 sec	
Minimum Illumination		
Color	0.2 Lux at 1/30s; 0.03 Lux at 1/4s	
B/W	0.001 Lux at 1/4s	
With IR	0.0 Lux	
Adaptive IR	Yes	
IR Distance	80ft (25m)	500ft (150m)
Wide Dynamic Range	Dual Exposure, True WDR 93 dB Technologies	
Day/Night	True Day/Night with ICR	
ONVIF-Compliant	Profile S	
Motion Detection Zones	1	
Blur Detection Zones	1	
Privacy Zones	8	
Alarm Input/Output	2/2	
Analog Video Output	NTSC/PAL Composite Video	
Audio	Bi-Directional 1/1	
Simultaneous Users	10	

Supported Languages	Arabic, Czech, Chinese (Simplified), Chinese (Traditional), Danish, Dutch, English (US), French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazilian), Russian, Spanish, Turkish
PTZ Operational	
Optical Zoom	30x Optical Zoom, 12x Digital Zoom
Pan Travel	360° Continuous
Tilt Travel	–15° ~ +90°
Manual Continuous Speed	0.1° ~ 90°/s
Preset Accuracy	0.1°
Preset Speed	Pan Speed: 0.1°/s ~ 240°/s Tilt Speed: 0.1° ~ 160°/s
Presets	96
Sequences	Up to 16, each with 16 steps (presets)
Pattern	17 Available, 16 Programmable
Home Function	Preset, Pattern, Sequence, or Scan
Auto Flip	Yes
Noise Reduction	Digital Noise Reduction 2D and 3D
Network	
Ethernet Interface	IEEE 802.3, 10/100 Base-T Ethernet, Female RJ45, Auto-Negotiation
Supported 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, SNMP, UPNP, RTSP, LLDP
Configuration Management	
Web Browser	IE 9 or above, Firefox, Chrome, Safari
Security	HTTPS, TLS, WS-Security, Certificate Management, Multi-Level Password Protection, IP address filtering, HTTPS encryption, One-Click Security Hardening, User Access Log, Validate Complex Credentials, Disabling Unused Protocols, IEEE 802.1x including: PEAP, EAP-TLS, EAPoL
Onboard Storage	
Card Support	SDXC up to 128GB
Pre-Alarm Recording	10s
Recording Format	AVI
Playback	Via Web Browser
Recording Trigger	Alarm Input, Motion Detection, Blur Detection, Network Loss, Temperature
VideoEdge TrickleStor	Yes

Electrical		
Power Input	PoE+ 802.3at Class 4, 24VAC	UPoE 802.3bt Class 6, 24VAC
Maximum Power Draw	25W	51W

Physical		
Dimensions (WxH)	Ø 7.5in (190mm) | Body Height: 11.9in (301mm) | Height to Pedant Top: 13in (330mm) Ball: 6.3in (Ø160mm)	
Weight	11.5lbs (5.2kg)	
Housing Color	RAL 9003 - Signal White	
Operating Temperature	-4°F to 122°F (-20°C to 50°C)	-40°F to 122°F (-40°C to 50°C)
Storage Temperature	-40°F to 140°F (-40°C to 60°C)	
Humidity	Up to 90% Non-Condensing	
Vandal Resistant	IK10	
Outdoor Rating	IP66	

Regulatory	
Emissions	FCC Part 15 Class A; CE EN55032 Class A; AS/NZS CISPR 22 Class A; ICES-003/NMB-003 Class A
Immunity	EN55024; EN50130-4
Safety	UL 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1
Environment	RoHS; WEEE

Flex IR PTZ

Ø7.48in (Ø190mm)

12.99in (330mm)
11.89in (302mm)

Ø6.3in (Ø160mm)

Accessories

Accessory Type	Image	Model Number	Description	Dimensions	Color
Recessed Mount		IFIRPTZWRECMT	Recessed mount for indoor or outdoor IR PTZ	Ø10.9 x 6.5 in (Ø276 x 166.1 mm)	RAL 9003 (Trim)
Ceiling Mount		IFIRPTZC2X2	Ceiling Mount Adapter Tile for use with IFIRPTZWRECMT	23.8 x 23.8 in (605 x 605 mm)	SHERWIN WILLIAMS 3HWT2-9002
Wall Mount		RHOSW	Short wall mount with end cap. For use with RHOWPA pole strap adapter and RHOWCA corner bracket adapter	With Dome Installed 14 x 9 x 11 in (366 x 218 x 282 mm)	RAL 9003
Wall Mount		RHOLW	Long wall mount with end cap	With Dome Installed 14 x 9 x 23 in (366 x 218 x 587 mm)	RAL 9003
Over the Roof Mount		RHOTR	Affixes directly to vertical roof wall or parapet, positions dome away from wall	43 x 10 x 19 in (1098 x 243 x 473 mm)	RAL 9003

Over the Roof Floor Mount		ROTRF	Enables RHOTR over-the-roof mount to be installed on horizontal and vertical roof/parapet surfaces	15 x 10 x 10 in (369 x 240 x 240 mm)	RAL 9003
Corner Bracket Adapter		RHOWCA	Enables long and short wall mounts (RHOSW and RHOLW) to affix to outside corners	7 x 8 x 5 in (185 x 210 x 125 mm)	RAL 9003
Pole Strap Adapter		RHOWPA	Enables RHOSW and RHOLW to affix to ourdoor corners	Straps Support: 5 x 3 x 1 in (138 x 79 x 27 mm) Pole Diameter: 2 to 38 in (53 to 951 mm)	RAL 9003
Indoor Pendant Mount		RHOPN	Allows an outdoor dome housing to be suspended from an outdoor ceiling or horizonal surface	4.5 x 5 x 5 in (115 x 120 x 120 mm)	RAL 9003
End Cap Assembly		ROENDC	Indoor/outdoor head adapter mount	3 x 4 x 8 in (64 x 103 x 194 mm)	RAL 9003

Ordering Information

Model Numbers	Description
IFS02P6ONWIT	Illustra Flex 2MP PTZ, 30x, outdoor, vandal, white, TDN w/IR, TWDR
IFS02P6INWIT	Illustra Flex 2MP PTZ, 30x, indoor, vandal, white, TDN w/IR, TWDR

Accessories

Model Numbers	Description
IFIRPTZWRECMT	Illustra Flex IR 30x PTZ indoor / outdoor recessed mount
IFIRPTZC2X2	Illustra Flex IR 30x PTZ 2X2 Ceiling Mount Adapter Plate
RHOSW	illustra / Ultra PTZ Wall MountShort 11″
RHOLW	illustra / Ultra PTZ Wall Mount Long 23″
RHOTR	illustra / Ultra PTZ Over Roof Mount
ROTRF	Floor Adapter for RHOTR PTZ mount
RHOWCA	PTZ Corner adaptor, used with RHOxW
ROENDC	End Cap for RHOxW, Spare
IPTZPOEBT60	illustra Flex IR 30x PTZ, 1PORT BT INJECTOR 60W
ADSPOT	Power Supply, 1 O/P, 120/240V to 24V, NEMA 4

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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IL1152-DS-201905-R03-HS-EN