

Flex IR PTZ / Bubble 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

*Flex IR PTZ models only

Effectively Manage Vast Surveillance Areas while Streaming High-Quality Video

The Flex PTZ range is ideal for applications that require reliable, expansive functionality at an economical price point. With its 30x optical and 12x digital magnification, the Flex PTZ range is capable of effectively managing video quality at a distance of up to 1,000ft (300m). Powerful IR LEDs on the outdoor IR PTZ model allow for a night scene illumination of up to 500ft (150m). The PTZ Bubble ensures camera lens direction is obscured, providing a more covert solution suited for retail and gaming. Packaged in an environmentally sealed, and vandal-resistant design, the Flex PTZ range 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 an enhanced security mode which forces the use of complex, nondefault 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 | 800 x 450 16:9 |
| | 1600 x 900 (HD+) 16:9 | 640 x 360 (nHD) 16:9 |
| | 1280 x 720 (720p) 16:9 | 480 x 270 16:9 |
| | 1024 x 576 (PAL+) 16:9 | 320 x 180 16:9 |
| | 960 x 540 (qHD) 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 (Flex IR PTZ models only), 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 (Flex IR PTZ models only) | |
| IR Distance (Flex IR PTZ models) | 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 | IR PTZ: +15° ~ -90° Bubble PTZ: -15° ~ -90° | IR PTZ: +15° ~ -90° Bubble PTZ: n/a |
| 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

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| 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

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| Card Support | SDXC up to 512GB | |
| 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

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

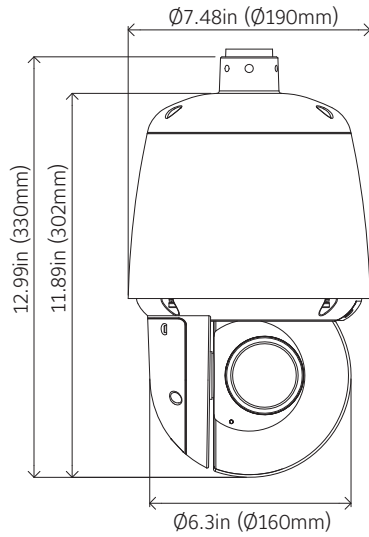
Physical

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| Dimensions (WxH) (Flex IR PTZ models) | Ø 7.5in (190mm) Body Height: 11.9in (301mm) Height to Pedant Top: 13in (330mm) | |
| Weight (Flex IR PTZ models) | Ball: 6.3in (Ø160mm) 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 | |

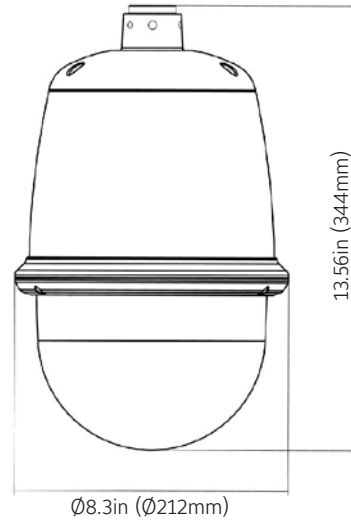
Regulatory

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|-------------|--|--|
| 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

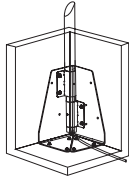
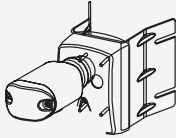
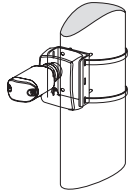
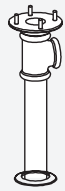
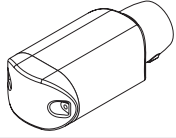



Flex Bubble PTZ



Accessories

| Accessory Type | Image | Model Number | Description | Dimensions | Color |
|---------------------|-------|--------------|---|---|-----------------------------------|
| Recessed Mount | | IFPTZWRECMT2 | Recessed mount for indoor or outdoor Flex IR PTZ and Flex Bubble PTZ | Ø13.5 x 8.9 in (Ø342 x 227 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 |

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|--|---|--------------------------------|---|---|----------|
| Over the Roof Floor Mount |  | ROTRF | Enables RHOTR over-theroof 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 outdoor 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 horizontal 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 |
| Replacement Bubble (Clear / Smoked) |  | IFS02P6ISBBL / IFS02P6ICBBL | Smoked bubble replacement / Clear bubble replacement | Ø8.35 in (212 mm) | RAL 9003 |

Ordering Information

| Model Numbers | Description |
|---------------|---|
| IFS02P6ONWITA | 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 |
| IFS02P6ISWTT | Illustra Flex 2MP PTZ, 30x, indoor, smoked bubble, white, TDN, TWDR |

Accessories

| Model Numbers | Description |
|---------------|--|
| IFPTZWRECMT2 | Recessed mount for indoor or outdoor Flex IR PTZ and Flex Bubble PTZ |
| IFIRPTZC2X2 | Illustra Flex IR 30x PTZ 2X2 Ceiling Mount Adapter Plate |
| RHOSW | Illustra / Ultra PTZ Wall Mount Short 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 |
| IFS02P6ICBBL | Flex PTZ Repl Bubble Clr |
| IFS02P6ISBBL | Flex PTZ Repl Bubble Smk |

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.