**Illustra Pro Series 5MP & 3MP Mini-Domes**

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# Bid-Spec

The Illustra Pro 5MP and 3MP Mini-Dome cameras are the next in the illustra line of cameras that offer high definition resolution and dynamic bandwidth management. They operate across an IP network such as the internet, a LAN or a WAN. Low light performance leads the industry in clarity at all light levels. The low light clarity is bolstered by the on-board IR illumination of the fixed domes. These cameras can power themselves and the IR illuminator via PoE (802.3af). The illustra Pro Series line offers versatility in both form factor and color options.

These intelligent cameras can detect faces in a region of interest and dynamically increase image quality. The mini-domes are vandal resistant, and have integrated surface, electrical box and recessed mounting, eliminating the need for additional hardware and cost. In addition, the cameras are also plenum-rated. These ONVIF-compliant cameras provide a range of options including on-board motion detection, wide dynamic range and exposure control. These features make them the premier choice in high definition cameras on the market today.

Key differentiators are:

* True Wide Dynamic Range for clarity in backlit environments
* On board Analytics including Motion Detection, Face Detection Blur Detection, Health monitor and Apps support.
* Hard and recessed mounts for easier and faster installation
* Face detection regions of interest
* 3 & 5 megapixel resolutions
* Leading low light CMOS clarity in color and black & white
* H.264 compression with 30 ips 3MP, and 15 ips 5MP
* Resolution up to 2592x1944p (5MP) and 2048x1536 (3MP)
* Dome models use motorized zoom and one-touch auto focus for 3-9mm and 9-22mm lenses

# Product Description

* The mini-dome cameras have integrated 3-9mm and 9-22mm motorized varifocal lens.
* The 3-9mm and 9-22mm lenses have a motorized zoom function with remote operation via the camera’s web interface.
* The 3-9mm and 9-22mm lenses have a one-touch auto focus feature with remote operation via the camera’s web interface.
* The camera dome chassis is vandal resistant, constructed of aluminum with a polycarbonate dome bubble.
* The dome camera has a 3-axis gimbal with 365° pan, 75° tilt, and 175° Z-rotation for easy and accurate positioning.
* The camera is surface mountable with no additional hardware needed.
* The camera has threaded conduit access in the rear and side of the body.
* The camera has an optional pendant mount or wall mount.
* The optional wall mount has conduit access via the rear, right and left sides of the mount.
* The indoor camera has a recess or flush mount without additional hardware.
* The camera attaches to single or double gang electrical boxes without an adapter.
* The outdoor dome cameras have an enclosure complying with IP66 weatherproofing standards.
* The outdoor camera is operational to -30°C (PoE network power) and -40°C (24Vac Power).
* The outdoor camera reduces or eliminates condensation from the field of view without the use of desiccant.
* The outdoor camera reduces or eliminates condensation from the field of view without the use of a fan.
* The camera supports both H.264 and MJPEG compression.
* The camera has dual standard compression support with simultaneous streaming of both H.264 and MJPEG formats.
* The camera has dual non-identical concurrent streams (different frame rate, bit rate, resolution, quality and compression format).
* The camera has Real Time Streaming Protocol (RTSP) support allowing for compatibility with media players such as Windows Media Player, Apple QuickTime, VLC Player and others.
* The camera’s output at its maximum resolution of 2592x1944 pixels (5MP) H.264 and 2048x1536pixels (3MP) H.264 at a maximum frame rate of 30 frames per second 3MP and 15 frames per second 5MP.
* The camera provides 5 level settings for quality of H.264 compression.
* The camera has the options to operate with the H.264 codec in constant bit rate and variable bit rate.
* The camera supports TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SFTP, SNMP,FTP, DHCP, WSDiscovery, DNS, DDNS, RTP, TLS, Unicast, Multicast,NTP, SMTP, WS-Security network protocols.
* The cameras feature automatic exposure, automatic white balance, true wide dynamic range, shutter speed control, true day night, 50/60Hz selectable flicker control, programmable brightness, contrast, saturation, sharpness, simultaneous delivery of full-field view.
* The camera incorporates necessary algorithms and circuits to detect motion in low light with clarity.
* The camera’s primary power source is Power over Ethernet (PoE) complying with the IEEE 802.3af standard.
* The camera has IR illuminators capable of illumination up to 60 feet powered by PoE (802.3af).
* The camera has the alternative option to be powered by PoE or 24 VAC.
* The camera’s operating ambient temperature is -40°C (-40°F) to 50ºC (122ºF) for warm start conditions (for outdoor fixed dome models).
* The camera is FCC Part 15, Class A and CE compliant.
* The camera is UL listed.
* The camera is IK10 vandal resistant.
* The recessed indoor camera models are UL rated as suitable for use in environmental air handling spaces, other than inside air ducts or furnace plenums, and so stated in the installation manual.
* The camera is able to detect multiple faces in a scene and increase the bit rate to enhance up to 5 faces as ROI.
* The camera has the ability to directly export snapshot images in JPEG form and video clips via email, FTP, Network storage and on board SDHC card.
* The camera can store and utilize the user name and password of the SMTP server to enable protected email export.
* The camera can record to an SDHC card based on motion detection, face detection, Blur Detection, Alarm input.
* The camera can record to a SDHC card in a circular fashion.
* Recorded video on the camera’s SDHC card is accessible via the cameras web browser GUI.
* The camera has the capability to provide at least 4 independent privacy zones.
* The camera has 1 alarm output and 2 alarm inputs.
* The camera has a Linux based operating system.
* The camera supports bi-directional audio in half and full duplex.
* The camera can send an alarm based on on-board motion detection.
* The camera can send an alarm based on the detection of a face.
* The camera can send an alarm when the image being blurred or out of focus.
* The camera supports wide dynamic range up to 90dB.
* The camera is offered in white and black colors.
* The camera has covers for trim ring screws that match the color of the trim ring.

# Product Specification

## Quick Spec for the Illustra Pro Mini-Dome Models

Video

Compression. . . . . . . . . . . . . H.264, MJPEG

Max Resolution………………..3MP (2048x1536) QXGA 4:3, 30fps

5MP 2592x1944 4:3, 15 fps

ONVIF-Compliant. . . . . . . . . . Yes( Core spec version 2.4)

Camera

Video Output . . . . . . . . . . . . . 1.0 Vp-p, 75 ohm, composite, BNC

Imager. . . . . . . . . . . . . . . . . . 3MP and 5MP: 1/3.2” CMOS progressive scan

Day/Night. . . . . . . . . . . . . . . . Auto (true day/night)

Motion Detection . . . . . . . . . . Yes

Alarms. . . . . . . . . . . . . . . . . . .Motion, schedule, dry contact, Ethernet loss, blur detection, face  
 detection

Audio. . . . . . . . . . . . . . . . . . . Bi-directional duplex, half-duplex

Alarm input/output. . . . . . . . . ..2/1

Video Streams. . . . . . . . . . . . 3 simultaneous streams

Minimum Illumination . . . . . . . **Pro Series 3MP**

0.05 lux at F1.2 color; 0.003lux at F1.2 b/w (3-9mm)

0.06 lux at F1.2 color; 0.004lux at F1.2 b/w (9-22mm)

0.00 lux w/ IR illuminator model

**Pro Series 5MP**

0.3 lux at F1.2 color; 0.02 lux at F1.2 b/w (3-9mm)

0.4 lux at F1.2 color; 0.03 lux at F1.2 b/w (9-22mm)

0.00 lux w/ IR illuminator model

Wide Dynamic Range. . . . . . . 90dB

Lens Type. . . . . . . . . . . . . . . . 3-9mm varifocal, and 9-22mm varifocal

Auto-Iris Support . . . . . . . . . . Yes

Plenum-Rated . . . . . . . . . . . .Yes

Network

Interface. . . . . . . . . . . . . . . . . Ethernet 10/100Base-TX

Ethernet Port. . . . . . . . . . . . . .RJ-45

Supported Protocols . . . . . . . TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WSDiscovery, DNS, DDNS, RTP, TLS, Unicast, Multicast,NTP, SMTP, WS-Security

Configuration Management

Web Browser. . . . . . . . . . . . . MS IE 10.x or greater, Mozilla Firefox, Chrome

Security . . . . . . . . . . . . . . . . . Multi-level; multi-users; IP address filtering, user access log, HTTPS, SFTP

Onboard Storage

Card Support . . . . . . . . . . . . .Micro SDHC 2.0 up to 64GB

Pre-alarm recording. . . . . . . . Yes

Record format. . . . . . . . . . . . .AVI

Playback. . . . . . . . . . . . . . . . Via browser

Recording Trigger. . . . . . . . . .Face detection, alarm, network loss, , motion detection, blur detection

Simultaneous Users. . . . . . . .Ten

Electrical

Power Input. . . . . . . . . . . . . 24VAC +/- 25% (indoor or outdoor)

PoE+ IEEE 802.3af (indoor or outdoor)

Power Draw. . . . . . . . . . . . . …….

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **24 VAC** | | **PoE**  **IEEE 802.3af™** |  |
| Indoor | | 16 VA RMS | <12.95W |  |
| Indoor with IR on | 19 VA RMS | | <12.95W |  |
| Outdoor with heater on | 39 VA RMS | | <12.95W |  |
| Outdoor with heater on and IR on | 42 VA RMS | | <12.95W |  |

**Model Dimension**

Indoor 130 mm x 138 mm x 138 mm (HxWxL)

Outdoor 135 mm x 160 mm x 160 mm (HxWxL)

Physical

Dimensions (W x H). . . . . . …….Indoor: 130mm x 138 mm x 138 mm

Outdoor: 135 mm x 160 mm x 160 mm (HxWxL)

Weight. . . . . . . . . . . . . . . . . . …. .Indoor: 1kg (2.2 lbs)

Outdoor: 1.8kg (3.96 lbs)

Housing Color . . . . . . . . . . . . …..White or black

Operating Temperature. . . . . . …Indoor: -10° to 40°C (-14° to 104°F)

Outdoor (24VAC): -40°C to 50°C (-40° to 122°F)

Outdoor (POE): -30°C to 50°C (-22° to 122°F) and Cold Start at -20°C

Storage Temperature -40°C to 60°C (-40° to 140°F)

Regulatory

Emissions. . . . . . . . . . . . . . . . ….FCC: Part 15 Class A CE: EN55022 Class A AS/NZS CISPR 22 Class A ICES-003/NMB-003 Class A

Immunity . . . . . . . . . . . . . . . . …. CE: EN50130-4

Safety. . . . . . . . . . . . . . . . . . . …. USA (UL): UL 60950-1

Canada (cUL): CAN/CSA-C22.2 No. 60950-1

CB Scheme: IEC 60950-1

European Union: EN 60950-1

# Model Numbers and Descriptions

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| **Illustra Pro 3MP Mini-Dome Models** | |
| **IPS03D2ICWTT** | Illustra Pro 3MP Mini-dome, 3-9mm, indoor, vandal, clear, white, TDN, TWDR |
| **IPS03D2ICWIT** | Illustra Pro 3MP Mini-dome, 3-9mm, indoor, vandal, clear, white, TDN w/IR, TWDR |
| **IPS03D2OCWTT** | Illustra Pro 3MP Mini-dome, 3-9mm, outdoor, vandal, clear, white, TDN, TWDR |
| **IPS03D2OCWIT** | Illustra Pro 3MP Mini-dome, 3-9mm, outdoor, vandal, clear, white, TDN w/IR, TWDR |
| **IPS03D2ISWTT** | Illustra Pro 3MP Mini-dome, 3-9mm, indoor, vandal, smoked, white, TDN, TWDR |
| **IPS03D2ISWIT** | Illustra Pro 3MP Mini-dome, 3-9mm, indoor, vandal, smoked, white, TDN w/IR, TWDR |
| **IPS03D2OSWTT** | Illustra Pro 3MP Mini-dome, 3-9mm, outdoor, vandal, smoked, white, TDN, TWDR |
| **IPS03D2OSWIT** | Illustra Pro 3MP Mini-dome, 3-9mm, outdoor, vandal, smoked, white, TDN w/IR, TWDR |
| **IPS03D2ICBTT** | Illustra Pro 3MP Mini-dome, 3-9mm, indoor, vandal, clear, black, TDN, TWDR |
| **IPS03D2ICBIT** | Illustra Pro 3MP Mini-dome, 3-9mm, indoor, vandal, clear, black, TDN w/IR, TWDR |
| **IPS03D2OCBTT** | Illustra Pro 3MP Mini-dome, 3-9mm, outdoor, vandal, clear, black, TDN, TWDR |
| **IPS03D2OCBIT** | Illustra Pro 3MP Mini-dome, 3-9mm, outdoor, vandal, clear, black, TDN w/IR, TWDR |
| **IPS03D2ISBTT** | Illustra Pro 3MP Mini-dome, 3-9mm, indoor, vandal, smoked, black, TDN, TWDR |
| **IPS03D2ISBIT** | Illustra Pro 3MP Mini-dome, 3-9mm, indoor, vandal, smoked, black, TDN w/IR, TWDR |
| **IPS03D2OSBTT** | Illustra Pro 3MP Mini-dome, 3-9mm, outdoor, vandal, smoked, black, TDN, TWDR |
| **IPS03D2OSBIT** | Illustra Pro 3MP Mini-dome, 3-9mm, outdoor, vandal, smoked, black, TDN w/IR, TWDR |
| **IPS03D3ICWTT** | Illustra Pro 3MP Mini-dome, 9-22mm, indoor, vandal, clear, white, TDN, TWDR |
| **IPS03D3ICWIT** | Illustra Pro 3MP Mini-dome, 9-22mm, indoor, vandal, clear, white, TDN w/IR, TWDR |
| **IPS03D3ISWTT** | Illustra Pro 3MP Mini-dome, 9-22mm, indoor, vandal, smoked, white, TDN, TWDR |
| **IPS03D3ISWIT** | Illustra Pro 3MP Mini-dome, 9-22mm, indoor, vandal, smoked, white, TDN w/IR, TWDR |
| **IPS03D3ICBTT** | Illustra Pro 3MP Mini-dome, 9-22mm, indoor, vandal, clear, black, TDN, TWDR |
| **IPS03D3ICBIT** | Illustra Pro 3MP Mini-dome, 9-22mm, indoor, vandal, clear, black, TDN w/IR, TWDR |
| **IPS03D3ISBTT** | Illustra Pro 3MP Mini-dome, 9-22mm, indoor, vandal, smoked, black, TDN, TWDR |
| **IPS03D3ISBIT** | Illustra Pro 3MP Mini-dome, 9-22mm, indoor, vandal, smoked, black, TDN w/IR, TWDR |

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| **Illustra Pro 5MP Mini-Dome Models** | |
| **IPS05D2ICWTY** | Illustra Pro 5MP Mini-dome, 3-9mm, indoor, vandal, clear, white, TDN, WDR |
| **IPS05D2ICWIY** | Illustra Pro 5MP Mini-dome, 3-9mm, indoor, vandal, clear, white, TDN w/IR, WDR |
| **IPS05D2OCWTY** | Illustra Pro 5MP Mini-dome, 3-9mm, outdoor, vandal, clear, white, TDN, WDR |
| **IPS05D2OCWIY** | Illustra Pro 5MP Mini-dome, 3-9mm, outdoor, vandal, clear, white, TDN w/IR, WDR |
| **IPS05D2ISWTY** | Illustra Pro 5MP Mini-dome, 3-9mm, indoor, vandal, smoked, white, TDN, WDR |
| **IPS05D2ISWIY** | Illustra Pro 5MP Mini-dome, 3-9mm, indoor, vandal, smoked, white, TDN w/IR, WDR |
| **IPS05D2OSWTY** | Illustra Pro 5MP Mini-dome, 3-9mm, outdoor, vandal, smoked, white, TDN, WDR |
| **IPS05D2OSWIY** | Illustra Pro 5MP Mini-dome, 3-9mm, outdoor, vandal, smoked, white, TDN w/IR, WDR |
| **IPS05D2ICBTY** | Illustra Pro 5MP Mini-dome, 3-9mm, indoor, vandal, clear, black, TDN, WDR |
| **IPS05D2ICBIY** | Illustra Pro 5MP Mini-dome, 3-9mm, indoor, vandal, clear, black, TDN w/IR, WDR |
| **IPS05D2OCBTY** | Illustra Pro 5MP Mini-dome, 3-9mm, outdoor, vandal, clear, black, TDN, WDR |
| **IPS05D2OCBIY** | Illustra Pro 5MP Mini-dome, 3-9mm, outdoor, vandal, clear, black, TDN w/IR, WDR |
| **IPS05D2ISBTY** | Illustra Pro 5MP Mini-dome, 3-9mm, indoor, vandal, smoked, black, TDN, WDR |
| **IPS05D2ISBIY** | Illustra Pro 5MP Mini-dome, 3-9mm, indoor, vandal, smoked, black, TDN w/IR, WDR |
| **IPS05D2OSBTY** | Illustra Pro 5MP Mini-dome, 3-9mm, outdoor, vandal, smoked, black, TDN, WDR |
| **IPS05D2OSBIY** | Illustra Pro 5MP Mini-dome, 3-9mm, outdoor, vandal, smoked, black, TDN w/IR, WDR |
| **IPS05D3ICWTY** | Illustra Pro 5MP Mini-dome, 9-22mm, indoor, vandal, clear, white, TDN, WDR |
| **IPS05D3ICWIY** | Illustra Pro 5MP Mini-dome, 9-22mm, indoor, vandal, clear, white, TDN w/IR, WDR |
| **IPS05D3ISWTY** | Illustra Pro 5MP Mini-dome, 9-22mm, indoor, vandal, smoked, white, TDN, WDR |
| **IPS05D3ISWIY** | Illustra Pro 5MP Mini-dome, 9-22mm, indoor, vandal, smoked, white, TDN w/IR, WDR |
| **IPS05D3ICBTY** | Illustra Pro 5MP Mini-dome, 9-22mm, indoor, vandal, clear, black, TDN, WDR |
| **IPS05D3ICBIY** | Illustra Pro 5MP Mini-dome, 9-22mm, indoor, vandal, clear, black, TDN w/IR, WDR |
| **IPS05D3ISBTY** | Illustra Pro 5MP Mini-dome, 9-22mm, indoor, vandal, smoked, black, TDN, WDR |
| **IPS05D3ISBIY** | Illustra Pro 5MP Mini-dome, 9-22mm, indoor, vandal, smoked, black, TDN w/IR, WDR |