

# Standard Laser IR PTZ Camera



## Features That Make a Difference:

- High performance Laser IR LED covering up to 500m (IR) distance
- 3D intelligent positioning function
- 3D DNR
- Power-off memory function: restore PTZ & Lens status after reboot
- Support privacy mask with multiple colors and mosaics on polygonal areas
- 240°/s Pan Preset Speed and 200°/s Tilt Preset Speed
- 0.1°-160°/s Manual Pan Speed and 0.1°-120°/s Manual Tilt Speed
- Park action: auto call up of PTZ movement, after a defined time of inactivity
- Support three-stream; Basic and advanced video configuration; Real time video at 1080P/960P/720P
- HTTPS encryption and IEEE 802.1X port-based network access control



The Illustra Standard Network Laser IR PTZ Camera or Speed Dome Camera Model ADC-P114-302IR is an excellent camera for security-critical environments where locating, tracking and zooming in on subject details with speed is vital. This versatile camera by American Dynamics is one of the most feature-rich cameras on the market today and boasts a 360° endless pan and -2°-90° tilt range and remarkable intelligence while supporting functions like Smart Tracking, Defog, ROI encoding, and HLC. A Laser IR LED is an outstanding feature as it enhances the camera's night vision capabilities of detection over long distances!

## Superior IR Function

A high performance Laser IR LED helps ensure that objects are detected over long distances at night even in the most challenging low light conditions. The IR function of this camera covers an impressive distance up to 500m! The IR light is very reliable with the MTBF being measured at up to 30,000 hours. The superior IR function and the camera's ability to detect at a minimum illumination of 0 Lux give you outstanding night time vision.

## System Function

The Illustra Standard Network Laser IR PTZ incorporates a 2MP high performance, progressive scan CMOS sensor for full HD quality images up to 1920x1080 resolutions. The camera supports smart tracking, scheduled PTZ movement and 3D intelligent positioning function for auto tracking to the specified zone. The camera has a preset accuracy of  $\pm 0.1^\circ$ . A convenient Power-off memory function helps restore PTZ & Lens status after reboot.

## ONVIF Support

The IR PTZ Camera is designed to ensure greater interoperability and compatibility on ONVIF Platform.

## Complete Convenience with a Suite of Smart Functions

The smartness of this camera makes the work of your security professionals very easy. These smart features are very useful for quick operation and decision making in security alert situations. There is an entire range of smart and powerful functions for tracking, detection, recording and image processing:

- Smart tracking modes: support manual/ panorama/ intrusion trigger/ line crossing trigger, support smart tracking when patrolling between multiple scenarios
- Smart detection: support face detection, intrusion detection, line crossing detection, audio exception detection
- Smart image processing: support defog, HLC, smart IR, EIS
- Smart codec: low bit rate, ROI

## Camera Function

The IR PTZ camera incorporates a Lens of Focal Length 4.3-129mm with 30X optical zoom and 16X digital zoom. The versatile camera supports several features critical for a PTZ camera. These include auto-iris and auto-focus capabilities. The auto white balance feature is supported for different modes and situations such as Indoor, Outdoor, Daylight lamp, Sodium lamp.

Backlight compensation support is very useful to avoid silhouettes and to get better images of the subject of interest.

## Powerful PTZ Capabilities

A Pan Tilt & Zoom functionality can only be effective when supported by built-in functions to locate, track and zoom onto the security situation area with agility and speed. Security Professionals in a security critical environment also demand accuracy and detail. The Illustra Standard Network Laser IR Camera is in a class by itself on these vital needs. Its performance capabilities include:

- 360° endless pan range and -2°-90° tilt range
- 240°/s Pan Preset Speed and 200°/s Tilt Preset Speed
- 0.1°-160°/s Manual Pan Speed and 0.1°-120°/s Manual Tilt Speed
- 256 presets programmable; preset image freezing capability
- 8 patrols, up to 32 presets per patrol
- 4 patterns, with the recording time not less than 10 minutes per pattern
- Proportional zoom function
- Park action: auto call up of PTZ movement, after a defined time of inactivity
- 7 alarm inputs and 2 alarm outputs

## Network Function

The camera supports:

- H.264/MJPEG/MPEG4 video compression and the latest Davinci processing chip and platform
- H.264 encoding with Baseline/Main/High profile
- ROI (Region of Interest) encoding (support 24 areas with adjustable levels)
- Built-in Web server
- SD/SDHC card local storage
- Support up to 8 NAS storage; Edge recording (transmit the videos from SD card to the NAS after network resumed)
- HTTPS encryption and IEEE 802.1X port-based network access control
- Support three-stream; Basic and advanced video configuration; Real time video at 1080P/960P/720P
- Multiple network protocols supported: IPv4/IPv6, HTTP, HTTPS, 802.1X, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
- 1 audio input and 1 audio output

## Specifications

ADC-P114-302IR	
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Effective Pixel	2230K pixels
Min. Illumination	Colour : 0.3 lux (F1.6,1/30 sec, 50 IRE, AGC On); B/W : 0.02 lux (F1.6,1/30 sec, 50 IRE, AGC On); 0 lux with IR Colour : 0.02 lux (F1.6, 1/1 sec, 50 IRE, AGC On); B/W : 0.002 lux (F1.6, 1/1 sec, 50 IRE, AGC On); 0 lux with IR
White Balance	Auto/ Manual/ ATW/ Indoor/ Outdoor/ Daylight lamp/ Sodium lamp
AGC	Auto / Manual
S / N Ratio	≥ 55dB
3D DNR	Support
HLC	Support
Defog	Support
BLC	Support
Digital WDR	Support
EIS	Support
Shutter Time	50Hz: 1-1/30,000s, 60Hz: 1-1/30,000s
Day & Night	IR Cut Filter
Digital Zoom	16X
Privacy Mask	24 privacy masks programmable; optional multiple colors and mosaics
Focus Mode	Auto / Semiautomatic / Manual
Lens	
Focal Length	4.3-129mm, 30x
Zoom Speed	Approx.3s(Optical Wide-Tele)
Angle of View	57.4-2.8 degree (Wide-Tele)
Min. Working Distance	10-1500mm(Wide-Tele)
Aperture Range	F1.6-F5.0
Pan and Tilt	
Pan Range	360° endless
Pan Speed	Pan Manual Speed: 0.1°-160°/s, Pan Preset Speed: 240°/s
Tilt Range	-2°-90° (Auto Flip )
Tilt Speed	Tilt Manual Speed: 0.1°-120°/s, Tilt Preset Speed: 200°/s
Proportional Zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of Preset	256
Patrol	8 patrols, up to 32 presets per patrol
Pattern	4 patterns, with the recording time not less than 10 minutes per pattern
Power-off Memory	Supported
Park Action	Preset/ Patrol/ Pattern/ Pan scan/ Tilt scan/ Random scan/ Frame scan/ Panorama scan
PTZ Position Display	On / Off
Preset Freezing	Supported
Scheduled Task	Preset/ Patrol/ Pattern/ Pan scan/ Tilt scan/ Random scan/ Frame scan/ Panorama scan/ Dome reboot/ Self-test action /Alarm output
Smart tracking	Supported

## Specifications

ADC-P114-302IR	
Infrared	
IR Distance	500m
IR Intensity	Automatically adjusted, depending on the zoom ratio
Alarm	
Alarm Input	7
Alarm Output	2 relay outputs, alarm response actions configurable
Alarm Trigger	Face detection, Intrusion detection, Line crossing detection, Audio exception detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Alarm Action	Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client
Input/ Output	
Monitor Output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
Audio Input	1 Mic in/Line in interface, Line input: 2-2.4V[p-p]; output impedance: 1KΩ, ±10%
Audio Output	1 Audio output interface, Line level, impedance: 600Ω
Network	
Ethernet	10Base-T / 100Base-TX, RJ45 connector
Max. Image Resolution	1920×1080
Frame Rate	50Hz: 25fps(1920×1080), 25fps(1280×960), 25fps (1280×720), 60Hz: 30fps(1920×1080), 30fps(1280×960), 30fps (1280×720)
Image Compression	H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile
SVC	Support
ROI encoding	Support 24 areas with adjustable levels
Audio Compression	G.711ulaw/G.711alaw/G.726/MP2L2
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1X, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
Number of Simultaneous Live View	Up to 10
Three Streams	Support
Mini SD Memory Card	Manual REC / Alarm REC. Built-in Micro SD/SDHC/SDXC card Slot, up to 64GB, Edge recording
User/Host Level	Up to 32 users, 3 Levels: Administrator, Operator and User
Security Measures	User authentication (ID and PW), Host authentication (MAC address) IP address filtering
System Integration	
Interface for application programming	Support ONVIF
Web Browser	IE 7+, Chrome 18 +, Firefox 5.0 +, Safari 5.02 +, support multi-language
General	
Menu Language	English
RS-485 Protocols	Pelco-P, Pelco-D, self-adaptive
Power	24VAC, Max. 45W (with IR ON)
Working Temperature/ Humidity	-30°C-65°C(-22°F-149°F)(outdoor) / 90% or less
Protection Level	IP66 standard (outdoor dome); TVS 6,000V lightning protection, surge protection and voltage transient protection
Mounting	Various mounting modes optional
Dimensions	ø245×399mm (ø9.65"×15.71")
Weight (approx.)	6.5kg(14.33lbs)
Mount Option (only suitable for outdoor dome)	Long-arm wall mount, Corner mount, Pole Mount, Power box mount

## Accessories



## Ordering Information

Part Number	Description
ADC-P114-302IR	30x PTZ 2 MP IP with 500 mtr IR with 30/25 FPS
ILSOMWALLW	Wall mount
ILSOMPOLEW	Vertical pole mount
ILSOMCORNW	Corner mount
ILSOMBOXPW	Wall mount, Including power box
ILSIMPENSW	Pendant mount, Short
ILSIMPENLW	Pendant mount, Long
ILSIMCEILW	Ceiling mount
ILSOMPARAW	Parapet wall mount
ILSPR24VAC	AC24V/2.5A, Europe standard plug

## Related Products



VideoEdge



victor



exacqVision

## Approvals



Driving network video through global standardization

[www.tycosp-apac.com](http://www.tycosp-apac.com)