

H.265 3 Mega-pixel IR IP Camera with Remote Focus and Zoom



Suitable for Monitoring All Indoor Areas

PLANET ICA-M4320P PoE IP Camera delivers excellent picture quality in H.265 3 mega-pixel resolutions at 30 frames per second (fps). Users will benefit from reduced 50% bandwidth and data storage through more efficient video compression.



Incorporating the Sony super low lux CMOS image sensor and 20-meter IR illuminators, which are specially designed for surveillance applications, the ICA-M4320P provides sharp images under all lighting conditions. With the motorized focus/zoom, users can remotely adjust the focus and zoom from the Web interface. Also equipped with a P-Iris, it allows for precise control of exposure, producing images with better clarity and contrast.

Moreover, the built-in PIR motion detection sensor in the ICA-M4320P is helpful to enhance the security level. It is perfect for remote and discreet monitoring of indoor areas such as stores, banks, hotels, office lobbies and warehouses.

Camera

- 1/2.8" Sony Exmor progressive scan CMOS sensor
- 2.8~12 mm vari-focal, P-Iris lens
- Smart Focus for remote and precise focus adjustment
- 0.01 lux minimum illumination at F1.2
- 12 built-in IR illuminators, effective up to 20 meters
- Built-in PIR sensor (covering 6m wide and an obtuse angle of 120 degrees) for thermal and motion detection
- Removable IR-cut filter for Day & Night function

Video and Audio

- Simultaneous H.265/H.264/M-JPEG video compression
- Simultaneous multi-stream support
- H.264 high profile, main profile and baseline
- Max. resolution of 2048 x 1536 at 30fps
- 3DNR to improve picture quality at low lux
- True WDR enhancement function strengthens visibility under extremely bright or dark environments
- Two-way audio support with enhanced audio quality

Network and Configuration

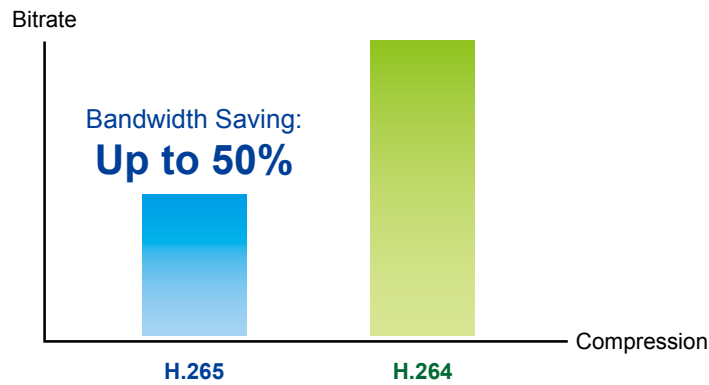
- Compliant with IEEE 802.3af PoE interface for flexible deployment
- RTSP, FTP and PLANET DDNS protocols selectable

Easy Installation and Management

- ONVIF compliant for interoperability
- Intelligent motion, tampering, audio detection alarm
- Digital Input/Output for integration with sensors and alarms
- Easy configuration and management via Windows-based utility or web interface

Clearer Images Delivered but Less Space Taken Up for Compression

The ICA-M4320P employs the H.265 technology to enable the camera to provide higher and more efficient image compression rates. If the same image quality level of H.264 is compared with that of H.265, the latter is able to save around 50% of bandwidth, meaning H.265 offers much higher quality video for less bandwidth. Thus, it can further enhance the overall performance of its IP surveillance system.



Passive Infrared (PIR) Sensor

When people pass by or in an emergency situation, the built-in PIR motion detection sensor in the ICA-M4320P will “detect” and start recording automatically. It is able to detect movement as far as 6 meters away. When a motion is detected in a specified area, the administrator will be alerted via e-mail, and at the same time, the captured images of the situation will be uploaded to a designated storage server via FTP to enable the administrator to instantly view the images.



Smart Focus with P-Iris

The ICA-M4320P comes with the Smart Focus to make installation and adjustment easier by allowing remote focus and zoom adjustment. P-Iris function works by a stepping motor controlled via software to automatically provide the best iris position for the best exposure time in all lighting conditions.



Advanced Media Management

The ICA-M4320P supports a number of advanced features to enhance surveillance flexibility and event management capabilities. The advanced features include 7 configurable regions of privacy mask to protect personal privacy and external ports that allow accessories, such as speakers and microphones, to be added to the camera for two-way audio function.

2-way Audio



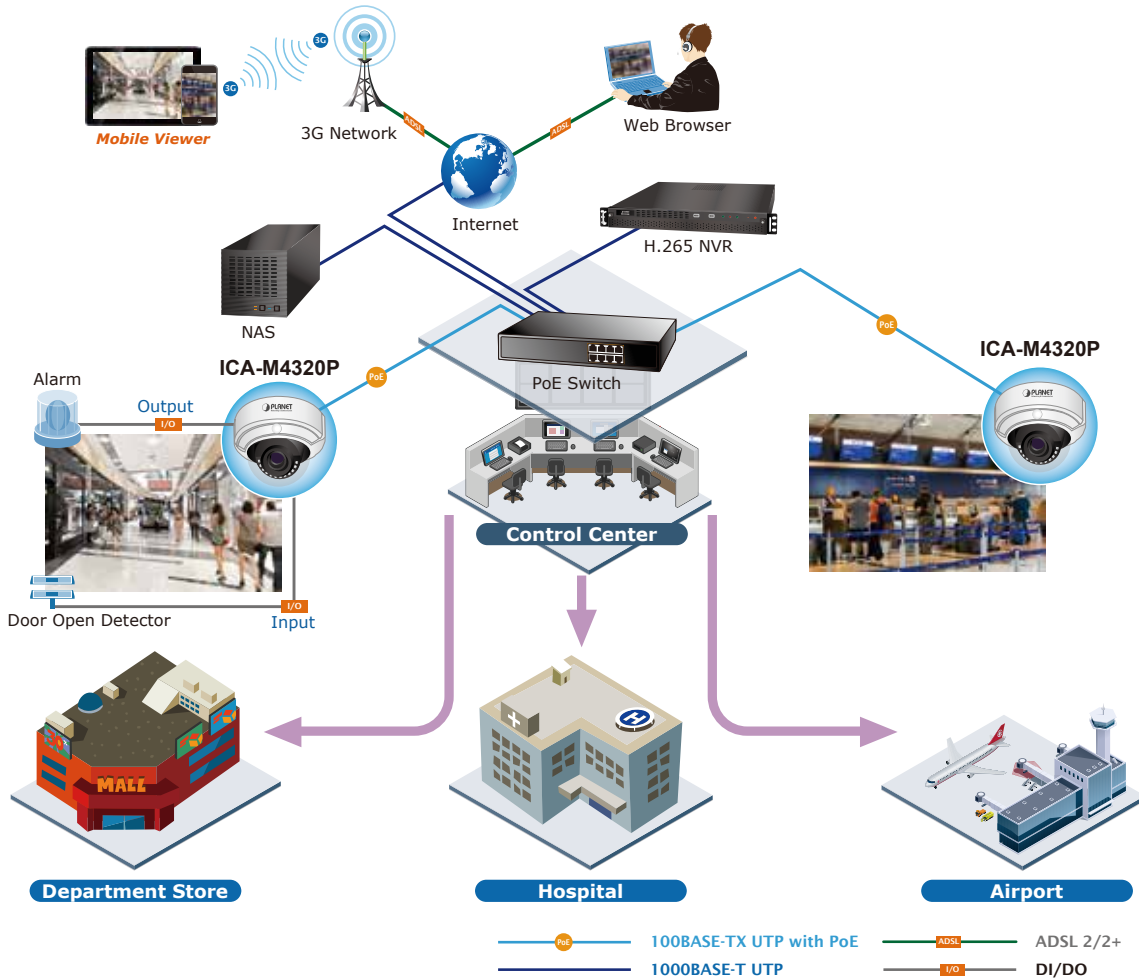
Flexible Installation and Power Functionality

Powered from a PoE power sourcing equipment such as PoE switch or PoE injector over a network cable, the ICA-M4320P, adopting the IEEE 802.3af standard, does not need extra power cables and manpower, thus reducing installation costs while increasing deployment flexibility and scalability. The ICA-M4320P is ONVIF compliant and interoperable with other brands in the market. The ICA-M4320P is indisputably the ideal choice for reliable and high-performance surveillance.



Applications

PLANET ICA-M4320P can perform in various surveillance applications. With high-resolution design, it can capture clear images and is perfect for identifying objects and persons. Moreover, the ICA-M4320P supports 802.3af PoE interface, and facilitates the indoor surveillance applications without worrying the electric source. Besides, NVR and Web UI management make you easy to do the configuration and live viewing. With so many features offered, the ICA-M4320P no doubt is your best choice for indoor surveillance solution.



Specifications

Model	ICA-M4320P
Camera	
Image Device	1/2.8" 3 mega-pixel Sony Exmor progressive scan CMOS sensor
Lens	Vari-focal 2.8~12mm, P-Iris Optical Zoom: 4x Angle of view: Horizontal: 29 ~ 94 degrees Vertical: 23 ~ 72 degrees
Min. Illumination	0.01 lux (color) @ F1.2 0 lux (B/W) @ IR on
IR Illuminations	IR LED x 12, 850nm, Built-in IR illuminators, effective up to 20 meters *The IR distance is based on the environment
PIR Sensor	Covering 6m wide and an obtuse angle of 120 degrees
Effective Pixels	2048 x 1536 pixels
Image	
Video Compression	H.265/H.264/M-JPEG
Video Resolution	2048 x 1536, 1080p, 960p, 720p, 800 x 600, 640 x 480, 640 x 360, 320 x 240, 320 x 180
Frame Rate	Up to 30fps for all resolutions
Bitrate	1024~20000kbps
Shutter Time	1/5~1/10000 sec
Image Setting	AE, AWB 2D noise reduction 3D noise reduction D-WDR/True WDR Brightness, contrast, sharpness, hue, color Anti-False Color Defog Digital Image Stabilization (DIS) BLC Pixel Count Mirror/Flip Privacy mask (7 regions) Text, time and date overlay Overlay image on video
Streaming	Simultaneous multi-profile streaming Streaming over UDP, TCP, HTTP, or HTTPS Controllable frame rate and bandwidth M-JPEG streaming over HTTP (server push) Constant and variable bit rate ROI AOI (Higher Quality in AOI area)
Audio	
Audio Streaming	Two-way audio
Audio Compression	RTSP: G.711/G.726
Audio Input	External microphone input
Audio Output	Adjustable audio output gain
Network and Configuration	
Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3af Power over Ethernet
Protocol	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, PLANET DDNS, DHCP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, Samba, SNMP, QoS, IEEE 802.1x
Security	Password protection, IP address filtering, HTTPS encrypted data transmission
Users	On-line monitoring of 20 clients at the same time
System Integration	
Application Programming Interface	Open API for software integration ONVIF compliant
Alarm Triggering	PIR, motion detection, tampering, disconnection of network or audio, and external input
Alarm Events	File upload via FTP, Samba or email Notification via email, HTTP, and TCP External output activation Audio alert output ICR On/Off
General	
Power Requirements	12V DC, 1A IEEE 802.3af Class 3

Power Consumption	10W with IR on (12V DC) 10W with IR on (PoE)
Weight	530g
Dimensions (Φ x L)	152 x 109 mm
Emission	CE, FCC
Connectors	10/100Mbps Ethernet, RJ45 1 alarm input and 1 alarm output (terminal block) 12V DC (terminal block) External mic input (terminal block) Audio out (terminal block) Video out (terminal block) Factory default reset button Micro SD slot (max. 32GB, class 10)
Environments	
Cold Boot Temperature	-20 ~ 50 degrees C
Operating Temperature	-30 ~ 50 degrees C
Operating Humidity	20 ~ 80% (non-condensing)

Ordering Information

ICA-M4320P	H.265 3 Mega-pixel IR IP Camera with Remote Focus and Zoom
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Related Products

ICA-M5380P	H.265 3 Mega-pixel Vandalproof IR IP Camera with Remote Focus and Zoom
ICA-M3380P	H.265 3 Mega-pixel Bullet IR IP Camera with Remote Focus and Zoom
NVR-3685	H.265 36-Ch Network Video Recorder with 8-Bay Hard Disks
WGS-804HPT	Industrial 8-Port 10/100/1000T Wall-mount Managed Switch with 4-Port PoE+ (-40~75 degrees C)