

H.265 5 Mega-pixel Smart IR Dome IP Camera with Remote Focus and Zoom



Excellently Efficient Surveillance Video

PLANET ICA-M4580P PoE IP Camera delivers excellent picture quality in **H.264(+)**/**H.265(+)** 5 mega-pixel resolutions and 3 streaming capabilities. Users will benefit from reduced **50%** bandwidth and data storage through more efficient video compression.



Incorporating the **SmartSens CMOS** sensor and **25-meter Smart IR** illuminators, which are specially designed for surveillance applications, the ICA-M4580P provides sharp images under all lighting conditions. With the 2.7~13.5mm **motorized focus and 5x zoom**, users can remotely adjust the focus and zoom from the web interface. Being able to operate under the temperature range from **-20 to 60 degrees C**, the ICA-M4580P, equipped with a tough IP67-rated metal housing and its outdoor and handy features, enables you to easily install the camera in any public areas, such as buildings, gardens, parking areas, markets, railway stations and hospitals. It ensures the highest level of reliability for mission-critical applications in any difficult environment.

High Efficiency Video Compression

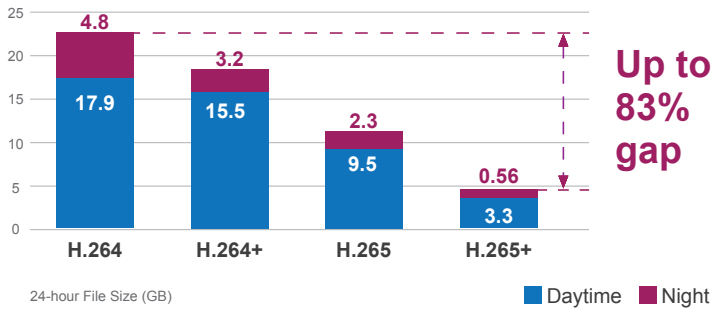
The ICA-M4580P employs the **H.264(+)**/**H.265(+)** technology to enable the camera to provide higher and more efficient image compression rates. If the same image quality level of H.264 is compared with that of H.265, the latter is able to save around 50% of bandwidth, meaning **H.264(+)**/**H.265(+)** offers much higher quality video for less bandwidth. Thus, it can further enhance the overall performance of its IP surveillance system.

Camera

- 1/2.7" 5 megapixel SmartSens CMOS sensor
- 2.7-13.5mm 5X motorized zoom auto focus lens
- Remote smart focus for remote and precise focus adjustment
- 0.01 lux minimum illumination at F1.2
- Built-in smart IR illuminators, effective up to 25 meters
- Removable IR-cut filter for Day & Night function

Video and Audio

- Simultaneous H.264(+)/H.265(+)/JPEG/AVI/MJPEG triple-stream video encoding
- Simultaneous multi-stream support
- H.264/M-JPEG baseline profile, main profile or high profile options
- Max. resolutions of 2880 x 1620 at 25fps
- HDR (120dB) enhancement function strengthens visibility under extremely bright or dark environments
- 3DNR to improve picture quality at low lux
- One-way audio support
- Image adjustment options
 - Image adjustment
 - Exposure settings
 - Focus
 - Backlight settings
 - Day and night switch
 - White balance
 - Video adjustment
 - Image enhancement
 - Defog model
 - Distortion
 - Image rotation
- OSD Settings
- Motion detection, video tampering, intrusion detection
- 3 configurable regions of privacy mask to protect personal privacy
- ROI (Region of Interest)



Smart Focus with Zoom Function

The ICA-M4580P is designed with the Smart Focus to make installation and adjustment easier by allowing remote focus and zoom adjustment. The 5x zoom 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.



Exceptional Image Quality

Together with powerful image processing attributes like Wide Dynamic Range (WDR) and 3-dimensional Noise Reduction (3DNR) technology, the ICA-M4580P is able to filter the intense backlight surrounding a subject and remove noises from video signal. The result is that an extremely clear and exquisite picture quality can be produced even under any challenging lighting conditions.



Advanced Media Management

The ICA-M4580P supports a number of advanced features to enhance surveillance flexibility and event management capabilities. The advanced features include ROI (region of interest), motion detection, 3 configurable regions of privacy mask to protect personal privacy, and video tampering function. It also comes with defog model and image adjustment options.

Power over Ethernet

- Compatible with IEEE 802.3af Power over Ethernet PD for flexible deployment

Network Configuration and Management

- IPv4 DHCP Client and IPv4 Static IP Address management
- PLANET DDNS and Easy DDNS, FTP, SMTP, P2P, Cloud, RTSP Encryption and IPEYE available options
- ONVIF compliant for interoperability
- SNTP Network Time Protocol/synchronize with computing time
- Schedule power rebooting
- System log
- User management options for various authorities:
 - Admin
 - Operator
 - Guest
- System maintenance
 - Firmware upload/download via HTTP
 - Configuration upload/download through web interface
- Easy configuration and management via Windows-based software or web interface
- PLANET Search Tools utility and Professional Video/Central Management Software

Case and Installation

- IP67-rated metal housing for rigorous environment
- Waterproof and dustproof designs
- -20 to 60 degrees C operating temperature
- Plug and Play installation

Flexible Installation and Power Functionality

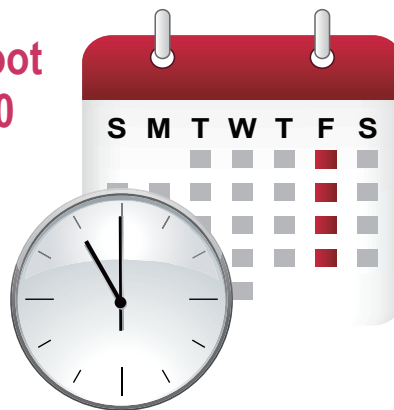
Powered from a PoE power sourcing equipment such as 802.3af/at PoE switch or 802.3af/at PoE injector over a network cable, the ICA-M4580P, adopting the IEEE 802.3af standard, does not need extra power cables and manpower, thus reducing installation costs while increasing deployment flexibility and scalability. The ICA-M4580P is ONVIF compliant and interoperable with other brands in the market, making it an indisputably ideal choice for reliable and high-performance surveillance.



Scheduled Power Rebooting

The ICA-M4580P can be scheduled to reboot at a specified time like minute, hour, every week or every month to reduce the chance of crash resulting from buffer overflow.

**Automatically Reboot
Every Friday 23:00**



Water-resistant and Dust-proof Protection

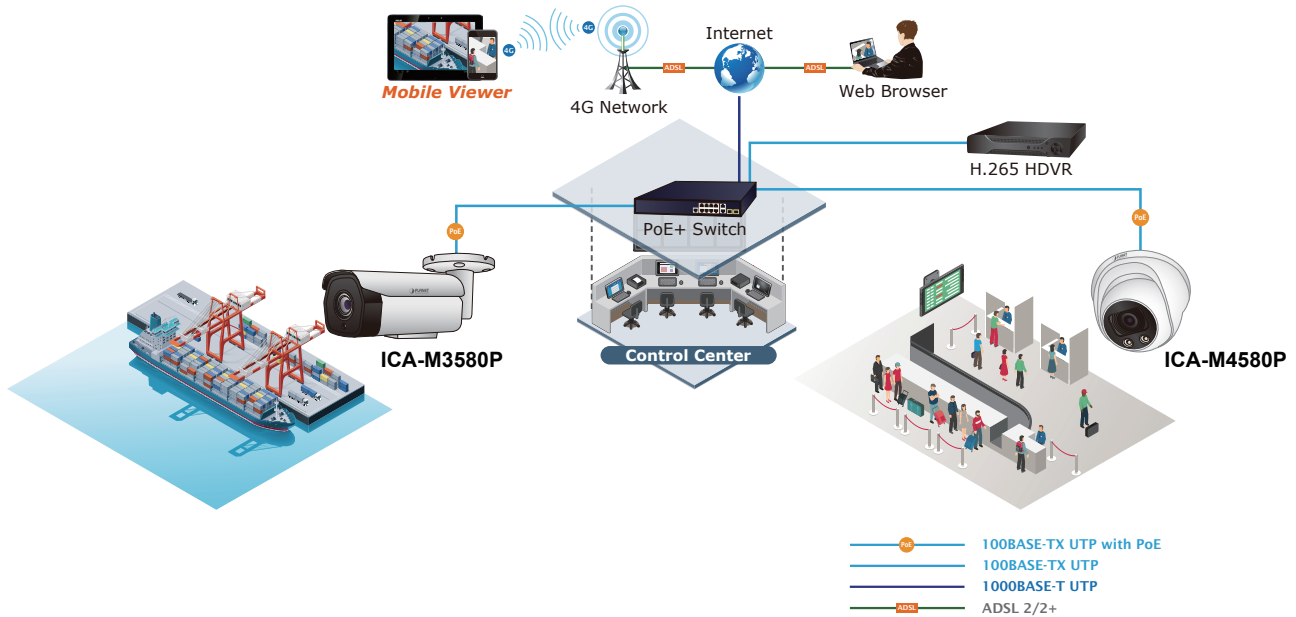
The IP67-rated metal housing protects the camera body against rain and dust, and ensures operation under extreme weather conditions, which makes it an ideal solution for outdoor applications, such as buildings, roads, parking areas, garages, railway stations and airports.



Applications

High Scalability for Various Industrial IP Surveillance Solutions

PLANET high-resolution ICA-M4580P can offer various surveillance applications as it can capture clear images and is perfect for identifying objects and persons. Moreover, the ICA-M4580P supports 802.3af PoE PD interface, and facilitates the outdoor surveillance applications without worrying the electric source. Besides, Planet VMS, NVR, HDVR, Web UI and App management make you easy to do the configuration and live viewing. With powerful features offered, the ICA-M4580P no doubt is your best choice for outdoor surveillance solution.



Specifications

Product	ICA-M4580P			
Camera				
Image Sensor	1/2.7" 5MP SmartSens CMOS sensor			
Lens	Focus Length: 2.7-13.5mm Focus Control: Auto Lens Type: Motorized Angle of view: Horizontal: 24~90 degrees Vertical: 17~74 degrees			
Min. Illumination	0.01 lux (color) @ F1.2 0lux (B/W) @ IR on			
IR Illuminations	Built-in smart IR illuminators, effective up to 25 meters *The IR distance is based on the environment.			
Effective Pixels (H x V)	2880 x 1620			
Power over Ethernet				
PoE Standard	IEEE 802.3af PoE PD			
Image				
Video Compression	H.264(+)/H.265(+)/JPEG/AVI/MJPEG			
Video Resolution	Item	Main Stream:	Sub Stream:	Tri-Stream:
	H.264/H.264+	2880 x 1620	1280 x 720 720 x 480	1280 x 720 720 x 480
		2592 x 1536		
		2560 x 1440		
H.265/H.265+	1920 x 1080 1280 x 720			
MJPEG	1920 x 1080			
Frame Rate	Up to 15~30 fps for all resolutions			
Bitrate	32~16384kbps			
Shutter Time	Auto: PAL 1/25-1/10000Sec; NTSC 1/25-1/10000Sec			

Image Setting	<p>Image adjustment</p> <p>Exposure settings</p> <p>Focus</p> <p>Backlight settings</p> <p>Day and night switch</p> <p>White balance</p> <p>Video adjustment</p> <p>Image enhancement</p> <p>Defog model</p> <p>Distortion</p> <p>Image rotation</p> <p>OSD settings (Text, time and date overlay and overlay image on video)</p> <p>Motion detection, video tampering</p> <p>3 configurable regions of privacy mask to protect personal privacy</p>
Streaming	<p>Streaming over UDP, TCP, HTTP, or HTTPS</p> <p>Controllable frame rate</p> <p>M-JPEG streaming over HTTP (server push)</p> <p>Constant and variable bit rate</p> <p>ROI (Region of Interest)</p>
Audio	
Audio Streaming	One-way audio
Audio Compression	G.711A/G.711U/AAC
Audio Input	Built-in mic
Networking & Configuration	
Standards Compliance	<p>IEEE 802.3 10BASE-T</p> <p>IEEE 802.3u 100BASE-TX</p> <p>IEEE 802.3af Power over Ethernet</p>
Protocol	<p>IPv4 DHCP Client and IPv4 Static IP Address management</p> <p>PLANET DDNS and Easy DDNS, FTP, SMTP, P2P, Cloud, RTSP Encryption and IPEYE</p>
Security	<p>User Management options for various authority</p> <ul style="list-style-type: none"> - Admin - Operator - Guest
Users	On-line monitoring of 16 clients at the same time
Web Browser	IE8~11, Google Chrome, Firefox, Mac Safari
App	Yes (Android, IOS with P2P QR code)
Language	Chinese Simplified, Chinese Traditional, English, Bulgarian, Polish, Arabic, German, Russian, French, Korean, Portuguese, Japanese, Turkish, Spanish, Hebrew, Italian, Netherlands, Czech, Vietnamese
System Integration	
Application Programming Interface	ONVIF compliant
Alarm Triggering	Motion detection/video tampering/intrusion detection
Alarm Events	SMTP, FTP, Cloud (Google, Dropbox)
Hardware Specification	
Power Requirements	<p>12V DC, 0.95A</p> <p>IEEE 802.3af</p>
Power Consumption	8W (IR on)
Dimensions (Φ x L)	Φ 128 x 108(H)mm
Weight	690g
Reset Button	On-board (next to SD slot)
SD Card Slot	Micro SD (512GB maximum)
LED	42μ x 2PCS
Connector	<p>10/100Mbps Ethernet, waterproof/dustproof RJ45 connector</p> <p>DC power jack</p>
Enclosure	IP67 metal case
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class B, CE
Environment	
Operating	<p>Temperature: -20 ~ 60 degrees C</p> <p>Relative Humidity: 5 ~ 95% (non-condensing)</p>
Storage	<p>Temperature: -20 ~ 60 degrees C</p> <p>Relative Humidity: 5 ~ 95% (non-condensing)</p>

Ordering Information

ICA-M4580P	H.265 5 Mega-pixel Smart IR Dome IP Camera with Remote Focus and Zoom
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Related Products

ICA-4460V	H.265 4MP PoE Dome IR IP Camera with Vari-focal Lens
ICA-3280	H.265 1080p Smart IR Bullet IP Camera
ICA-4280	H.265 1080p Smart IR Dome IP Camera
ICA-A3280	H.265 1080p Smart IR Bullet IP Camera with Artificial Intelligence
ICA-A4280	H.265 1080p Smart IR Dome IP Camera with Artificial Intelligence
ICA-M3580P	H.265 5 Mega-pixel Smart IR Bullet IP Camera with Remote Focus and Zoom
HDVR-435	H.265 4-ch 5-in-1 Hybrid Digital Video Recorder
HDVR-1635	H.265 16-ch 5-in-1 Hybrid Digital Video Recorder
NVR-2500	H.265 25-ch 4K Network Video Recorder
NVR-2516P	H.265 25-ch 4K Network Video Recorder with 16-Port PoE