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 **Sony STARVIS back-illuminated CMOS sensor** and **30-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.
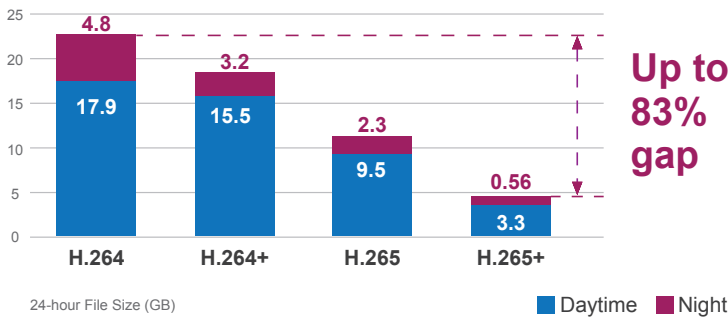
Camera

- 1/2.8" 5 megapixel SONY STARVIS Back-illuminated CMOS sensor
- 2.7-13.5mm 5X motorized zoom auto focus lens
- Remote smart focus for remote and precise focus adjustment
- 0.005 lux minimum illumination at F1.2
- Built-in smart IR illuminators, effective up to 30 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 2592 x 1944 at 20fps
- WDR (50dB) 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
    - Backlight Settings
    - Day and night Switch
    - White Balance
    - Video Adjustment
    - Image Enhancement
    - Defog Model
- OSD Settings
- Motion detection, video tampering
- 3 configurable regions of privacy mask to protect personal privacy
- ROI (Region of Interest)

Power over Ethernet

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

4.8 **3.2** **2.3** **0.56**
17.9 **15.5** **9.5** **3.3**

H.264   H.264+   H.265   H.265+

24-hour File Size (GB)

Up to 83% gap

■ Daytime   ■ Night

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
  - Hardware-based reset button for resetting to factory default
- 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

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.

Blurred   *Auto Focus*   *Clear*

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.

WDR: OFF   WDR: ON

3DNR: OFF   3DNR: ON

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.
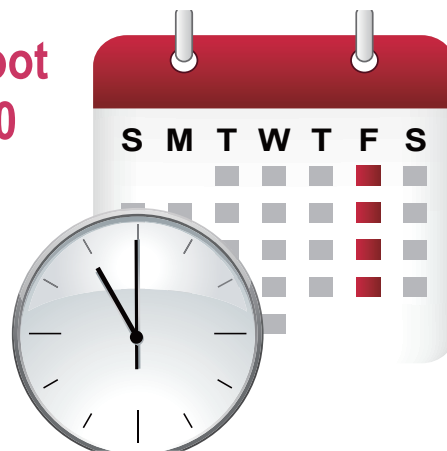
Flexible Installation and Power Functionality

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
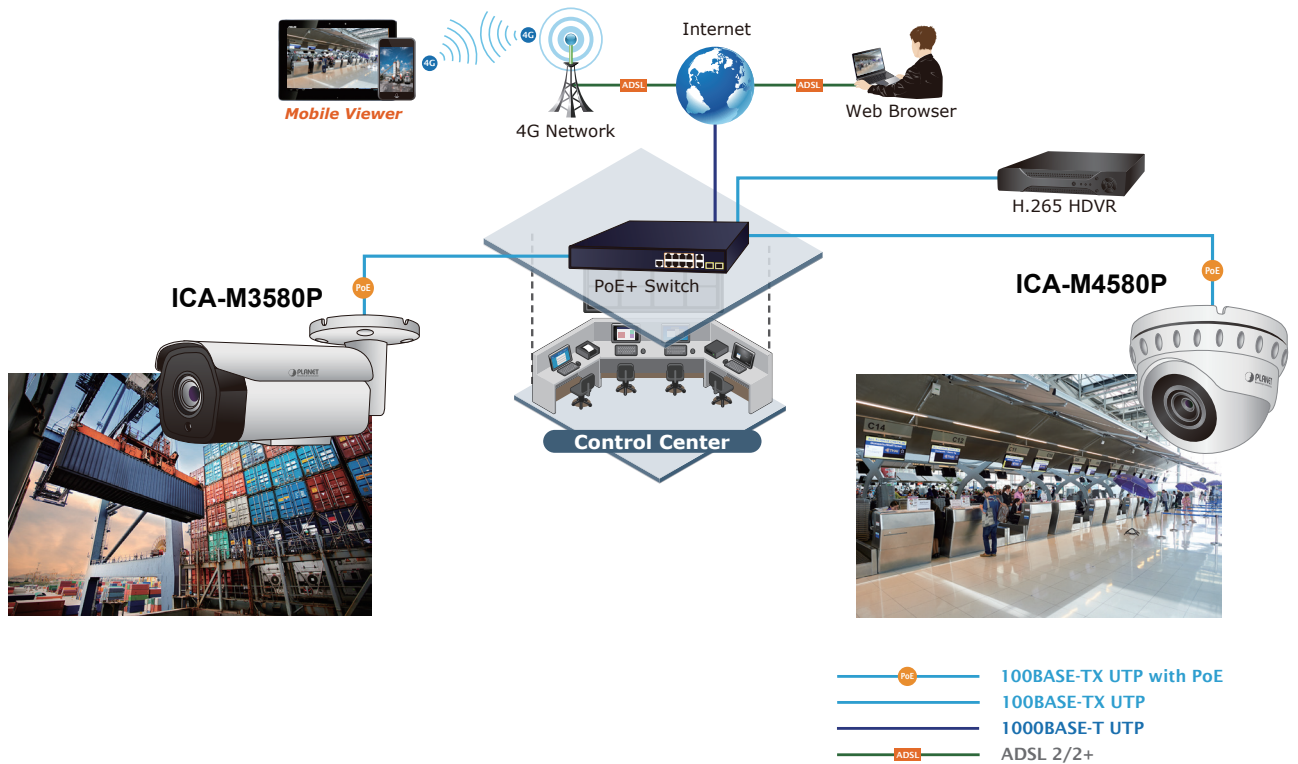
Water-resistant and Dust-proof Protection

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.

Dustproof

Immersion under 1M

IP67 Weather Proof

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	1/2.8" SONY Starvis Back-illuminated CMOS sensor
Lens	Focus Length: 2.7-13.5mm Focus Control: Auto Lens Type: Motorized Pixels: 5MP Angle of view: Horizontal: 24~90 degrees Vertical: 17~74 degrees
Min. Illumination	0.005 lux (color) @ F1.2 2lux (B/W) @ IR on
IR Illuminations	Built-in smart IR illuminators, effective up to 30 meters *The IR distance is based on the environment
Effective Pixels (H x V)	2616 x 1964
Power over Ethernet	
PoE Standard	IEEE 802.3af PoE PD
Image	
Video Compression	H.264(+)/H.265(+)/JPEG/AVI/M-JPEG

Item	Main Stream:	Sub Stream:	Tri-Stream:
H.264/H.264+	2592 x 1944		
H.265/H.265+	2560 x 1920 2560 x 1440 1920 x 1280 1280 x 720	720 x 480	352 x 288
MJPEG	1920 x 1080		

(Video Resolution)

Frame Rate	Up to 15~30 fps for all resolutions
Bitrate	32~16384kbps
Shutter Time	Auto: PAL 1/25-1/10000 sec; NTSC 1/25-1/10000 sec
Image Setting	Image Adjustment Exposure Settings BackLight Settings Day and night switch White Balance Video Adjustment Image Enhancement Defog Model OSD Settings (Text, time and date overlay and overlay image on video) Motion detection, video tampering 3 configurable regions of privacy mask to protect personal privacy
Streaming	Streaming over UDP, TCP, HTTP, or HTTPS Controllable frame rate M-JPEG streaming over HTTP (server push) Constant and variable bit rate ROI (Region of Interest)
Audio	
Audio Streaming	One-way audio
Audio Compression	G.711A/G.711U
Audio Input	External microphone input
Networking & Configuration	
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3af Power over Ethernet
Protocol	IPv4 DHCP Client and IPv4 Static IP Address management PLANET DDNS and Easy DDNS, FTP, SMTP, P2P, Cloud, RTSP Encryption and IPEYE
Security	User Management options for various authority - Admin - Operator - Guest
Users	On-line monitoring of 16 clients at the same time
Web Brower	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, Nederlands, Czech, Vietnamese
System Integration	
Application Programming Interface	ONVIF compliant
Alarm Triggering	Motion detection/video tampering
Alarm Events	SMTP, FTP, Cloud (Google, Dropbox)
Hardware Specification	
Power Requirements	12V DC, 0.95A IEEE 802.3af
Power Consumption	8W (IR on)
Dimensions (Φ x L)	131 x 93 mm
Weight	800g
Reset Button	YES
LED	14μ x 24pcs
Connector	10/100Mbps Ethernet, waterproof/dustproof RJ45 connector DC power jack RCA audio in (white)
Enclosure	IP67 metal case
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class B, CE
Environments	
Operating	Temperature: -20 ~ 60 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -20 ~ 60 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

Ordering Information

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

Related Products

ICA-4250	1080p IR Dome PoE IP Camera
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

ICA-M4580P