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

Excellently Efficient Surveillance Video

PLANET ICA-M3580P PoE IP Camera delivers excellent picture quality in **H.264(+)/H.265(+)** 5 mega-pixel resolutions and multi 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 **Smart IR illuminators**, which are specially designed for surveillance applications, the ICA-M3580P provides sharp images under all lighting conditions. With the 2.7~12.5mm **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-M3580P, 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.

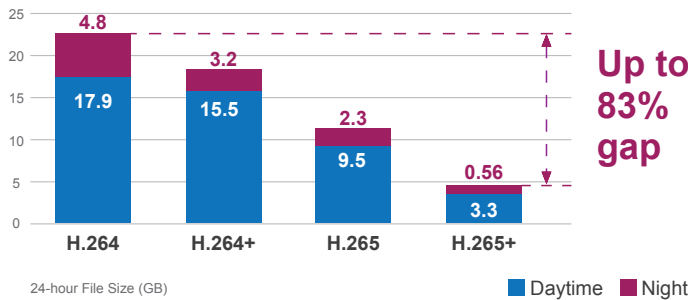## High Efficiency Video Compression

The ICA-M3580P 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 with Progressive Scan
- 2.7-12.5mm 5X motorized zoom auto focus lens
- Remote smart focus for remote and precise focus adjustment
- 0.06 lux minimum illumination at F1.6
- Built-in smart IR illuminators, effective up to 40 meters
- Switchable IR-cut filter for Day & Night function

Video and Audio

- Simultaneous H.264(+)/H.265(+)/JPEG/AVI multi-stream video encoding (H.264+/H.265+ expected to be launched by firmware upgradation)
- Simultaneous multi-stream support
- H.264 baseline profile, main profile or high profile options
- Max. resolution of 2592 x 1944 at 30fp
- Supports wide dynamic range(WDR), backlight compensation (BLC)
- 3DNR to improve picture quality at low lux
- Two-way audio support
- Image adjustment options
  - AFFocus
  - Image adjustment
  - Exposure settings
  - Day and Night Mode
  - White Balance
  - Video Adjustment
  - Image Enhancement
  - Backlight Settings
- OSD settings
- Smart Event Detection
  - Motion Detection
  - Video Tampering
  - Intrusion Detection
  - Line Cross Detection
  - Loitering Detection
  - People Gathering Detection
  - Vehicle Detection
  - Exception
  - Sound Alarm

4.8
3.2
17.9
15.5
2.3
9.5
0.56
3.3

Up to 83% gap

24-hour File Size (GB)

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

■ Daytime ■ Night

Smart Focus with Zoom Function

The ICA-M3580P 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-M3580P 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-M3580P 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, **video tampering**, **intrusion detection**, **line cross detection**, **loiter detection**, **people gather detection**, and **vehicle detection** function. It also

- 3 configurable regions of privacy mask to protect personal privacy
- RoI (Region of Interest)

Power over Ethernet

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

Network Configuration and Management

- PPPoE, IPv4 DHCP Client and IPv4 Static IP Address management
- Supports IPv6
- PLANET DDNS and Easy DDNS, TCP/IP, UDP, PPPoE, HTTPS, ICMP, FTP, SMTP, QoS, 802.1X, P2P, RTP, NTP, Cloud, RTSP, RTCP 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
- NDAA Compliant

Case and Installation

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

comes with image adjustment options, newly-added **anti-overexposure protection** function, three white balance modes, and five backlight compensation modes. The ICA-M3580P also supports SD card interface. You don't need to connect to the NVR to set up the recording. The playback function can be realized by performing it directly.

With more user-friendly GUI interface that allows users to better monitor, the ICA-M3580P supports IPv6, QoS and IEEE 802.1X functions. Newly-added secure email for password reset and email encryption protocol now can support TLS.
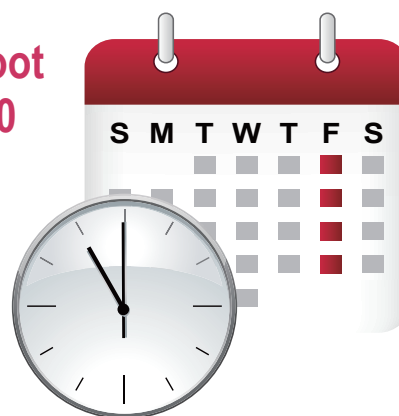
Flexible Installation and Power Functionality

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-M3580P, adopting the IEEE 802.3af/at standard, does not need extra power cables and manpower, thus reducing installation costs while increasing deployment flexibility and scalability. The ICA-M3580P 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-M3580P can be scheduled to reboot at a specified time like every minute, every hour, every week or every month to reduce the chance of crash resulting from buffer overflow.

Remote Access via Mobile App, Web Browser or PVMS

Remote management makes you easy to set the configuration and live viewing via Mobile App, NVR, HDVR, and Web browser. Besides, the ICA-M3580P provides central surveillance management capability with the adoption of its bundled **PLANET Video Management Software**. With the **PVMS**, the ICA-M3580P is expandable for multi-sites management of up to 256-ch IP cameras simultaneously. Users are able to monitor the IP cameras anytime, anywhere.
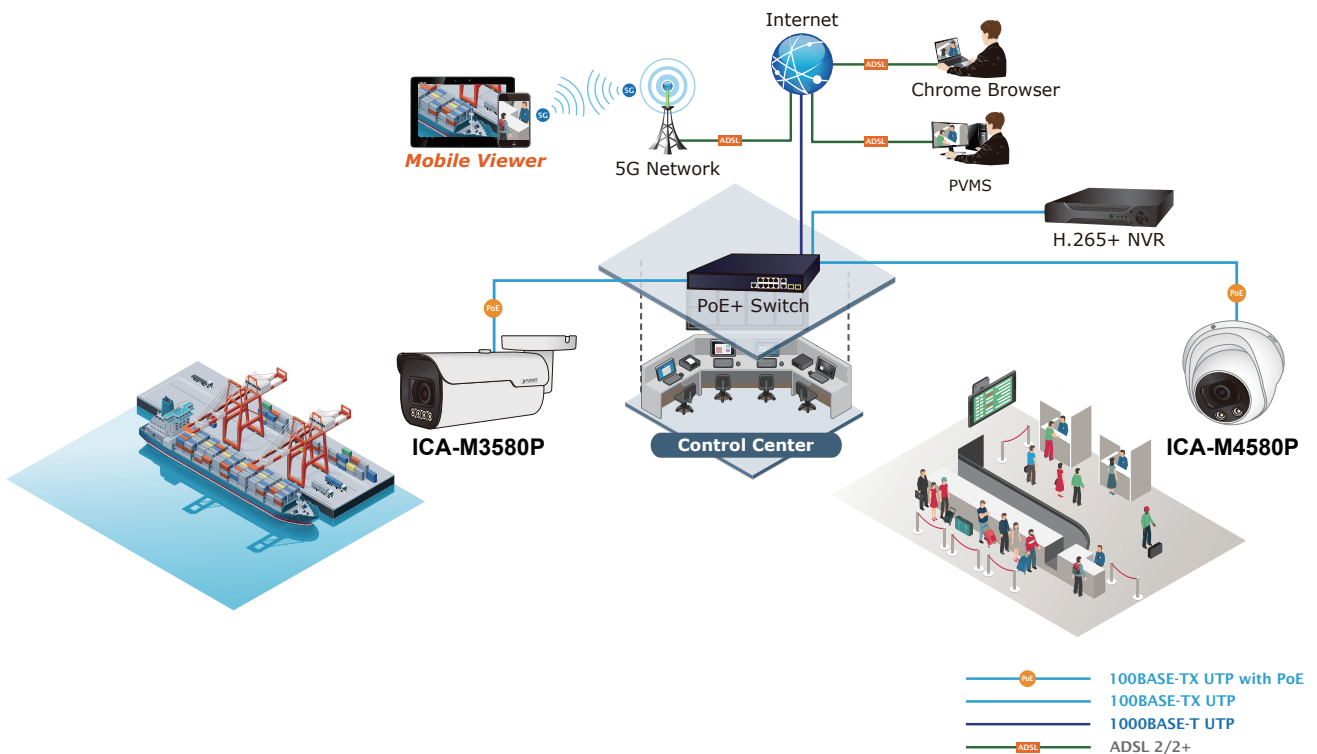
Water-resistant and Dust-proof Protection

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-M3580P can offer various surveillance applications as it can capture clear images and is perfect for identifying objects and persons. Moreover, the ICA-M3580P supports 802.3af/at 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-M3580P no doubt is your best choice for outdoor surveillance solution.

Specifications

Product	ICA-M3580P		
Camera			
Image Sensor	1/2.8" 5 megapixel SONY STARVIS Back-illuminated Progressive Scan CMOS sensor		

Lens	Focus Length: 2.7-12.5mm
	Focus Control: Auto
	Lens Type: Auto
	Angle of view:
	   Horizontal: 29~103 degrees
	   Vertical: 16~54 degrees		

Min. Illumination	0.006 lux (color) @ F1.6 0lux (B/W) @ IR on		
IR Illuminations	Built-in smart IR illuminators, effective up to 40 meters *The IR distance is based on the environment		
Effective Pixels (H x V)	2616 x 1964		
Image			
Video Compression	H.264(+)/H.265(+)/JPEG/AVI		
Video Resolution	Protocol	Main Stream	Sub Stream
	H.264/H.264+ H.265/H.265+	2592 x 1944@30fp 2560 x 1440@30fp 1920 x 1080@30fp 1280 x 720@30fp	1280 x 720@30fp 720 x 480@30fp
	JPEG	2592 x 1944@30fp	
Frame Rate	Up to 25~30 fps for all resolutions		
Bitrate	32~16384kbps		
Shutter Time	Auto: 1/30-1/100000Sec		
Image Setting	AFFocus Image adjustment Exposure settings Day and Night Mode White Balance Video Adjustment Image Enhancement Backlight Settings OSD settings Privacy Mask ROI(Region of Interest)		
Streaming	Streaming over UDP, TCP, HTTP, or HTTPS Controllable frame rate Constant and variable bit rate		
Audio			
Audio Input	External audio I/O		
Audio Streaming	Two-way audio		
Audio Compression	G.711A/G.711U/AAC		
Networking & Configuration			
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3af/at Power over Ethernet		
Protocol	TCP/IP,IPv4/v6, ICMP, HTTP, HTTPS, FTP, DHCP, PLANET DDNS, Easy DDNS, RTP, RTSP, RTCP, PPPoE, NTP, SMTP, UDP, QoS, 802.1X, P2P, IPEYE, Cloud		
Security	User Management options for various authorities - Admin - Operator - Guest		
Users	On-line monitoring of 16 clients at the same time		
Web Brower	Microsoft IE8-11, Edge, Google Chrome, Firefox , Mac Safari(partial)		
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, Intrusion Detection, Line Cross Detection, Loitering Detection, People Gathering Detection, Vehicle Detection, Exception, Sound Alarm		

Alarm Events	SMTP, FTP, Cloud (Google)
Hardware Specifications	
Power Requirements	12V DC, 0.95A IEEE 802.3af/at Power over Ethernet
Power Consumption	6.4W (IR on)
Dimensions (W x D x H)	268 x 95 x 88 mm
Weight	1.5kg
Reset Button	on the bottom of camera (next to SD slot)
SD Card Slot	Micro SD (1TB maximum)
LED	42μ x 4pcs
Connector	10/100Mbps Ethernet, waterproof/dustproof RJ45 connector DC power jack RCA audio in/out (white)
Enclosure	IP67 metal case
Power over Ethernet	
PoE Standard	IEEE 802.3af/at PoE PD
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class B, CE
NDAA Compliance	Yes
Environment	
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-M3580P	H.265 5 Mega-pixel Smart IR Bullet IP Camera with Remote Focus and Zoom

Related Products

ICA-3280	H.265 1080p Smart IR Bullet IP Camera
ICA-4280	H.265 1080p Smart IR Dome IP Camera
ICA-4460V	H.265 4MP PoE Dome IR IP Camera with Vari-focal Lens
ICA-3480F	H.265+ 4MP Full Color Bullet IP Camera
ICA-4480F	H.265+ 4MP Full Color Dome IP Camera
ICA-M4580P	H.265 5 Mega-pixel Smart IR Dome 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
NVR-1600	H.265+ 16-ch 4K Network Video Recorder
NMS-500	Universal Network Management Controller
NMS-1000V	Universal Network Management Controller with LCD Touch Screen (10"/12")

ICA-M3580P