




PLANET Technology H.265+ 4MP Smart IR Bullet IP Camera User Guide

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PLANET Technology H.265+ 4MP Smart IR Bullet IP Camera



Product Information

Product Name: ICA-3480

Model: H.265+ 4MP Smart IR Bullet IP Camera

Description: The PLANET ICA-3480 PoE IP Camera is a high-quality surveillance camera that delivers excellent picture quality in H.264(+)/ H.265(+) 4 mega-pixel resolutions. It utilizes advanced video compression technology to provide higher and more efficient image compression rates, resulting in reduced bandwidth and data storage requirements.

Features

- **High Efficiency Video Compression:** The ICA-3480 employs H.264(+)/H.265(+) technology to save up to 83% bandwidth compared to H.264, while offering higher quality video.
- **Advanced Media Management:** Supports advanced features such as ROI (region of interest), motion detection, privacy mask, video tampering function, defog model, image adjustment options, white balance modes, and backlight compensation modes.
- **Network Configuration and Management:** Supports IPv6, QoS, IEEE 802.1x functions, secure email for password reset, and email encryption protocol with TLS support.
- **Scheduled Power Rebooting:** Can be scheduled to reboot at specified intervals to reduce the chance of crash resulting from buffer overflow.

Specifications

- **Camera Image Sensor:** 1/3 Progressive Scan CMOS Sensor
- **Lens:** Focus Length – 3.6mm, Focus Control – Fixed, Lens Type – Fixed
- **Min. Illumination:** 0.03 lux (color) @ F1.6, 0lux (B/W) @ IR on
- **IR Illuminations:** Built-in smart IR illuminators, effective up to 25 meters
- **Effective Pixels:** 2560 x 1440
- **Power over Ethernet:** IEEE 802.3af/at PoE PD

- **Video Compression:** H.264/H.264+/H.265/H.265+/JPEG/AVI/MJPEG
- Video Resolution:
 - Main Stream:
 - H.264/H.264+: 2688 x 1512@25fps, 2560 x 1440@30fps
 - H.265/H.265+: 1920 x 1080@30fps

Product Usage Instructions

To use the ICA-3480 PoE IP Camera, follow these steps:

1. Ensure that the camera is properly connected to a Power over Ethernet (PoE) switch or injector.
2. Access the camera's configuration interface through a web browser or dedicated app.
3. Configure the camera's network settings, including IP address, subnet mask, gateway, and DNS server.
4. Adjust the camera's image settings, such as brightness, contrast, and saturation, to your preference.
5. Set up advanced features like ROI, motion detection, privacy mask, and video tampering function according to your surveillance needs.
6. Monitor the camera's live video feed through the web browser or app.
7. To capture or record video, configure the desired video resolution, frame rate, and bitrate.
8. For remote viewing, ensure that your network supports the necessary protocols and configure port forwarding if required.
9. If desired, schedule the camera to reboot at specific intervals to prevent buffer overflow crashes.

Refer to the user manual for detailed instructions on specific configuration options and additional features.

Excellent Efficient Surveillance Video

PLANET ICA-3480 PoE IP Camera delivers excellent picture quality in H.264(+)/H.265(+) 4 mega-pixel resolutions. Users can benefit from reduced 83% bandwidth and data storage through more efficient video compression.



- Incorporating the 1/3" Progressive Scan CMOS Sensor and 25-meter Smart IR illuminators, which are specially designed for surveillance applications, the ICA-3480 provides sharp images under all lighting conditions. Being able to operate under the temperature range from -20 to 60 degrees C, the ICA-3480, 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.

Exceptional Image Quality by DWDR technology

- For specific surveillance applications, wide dynamic technology has become a standard feature of high-definition surveillance cameras. Together with powerful image processing attributes like Digital Wide Dynamic Range (DWDR) and 3-dimensional Noise
- Reduction (3DNR) technology, the ICA-3480 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.

Camera

- 1/3" Progressive Scan CMOS Sensor
- 3.6mm fixed with 4MP lens
- 0.03 lux minimum illumination at F1.6
- Built-in smart IR illuminators, effective up to 25 meters
- Switchable IR-cut filter for Day & Night function

Video and Audio

- Simultaneous H.264(+)/H.265(+) dual-stream video encoding
- Simultaneous multi-stream support
- H.264(+)/H.265(+) baseline profile, main profile or high profile options
- Max. resolution of 2688 x 1512@25fps
- Supports Digital WDR (DWDR) (60dB)
- 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
- Event Detection
- Motion detection
- Video Tampering
- Intrusion Detection
- 3 configurable regions of privacy mask to protect personal privacy

- ROI (Region of Interest)

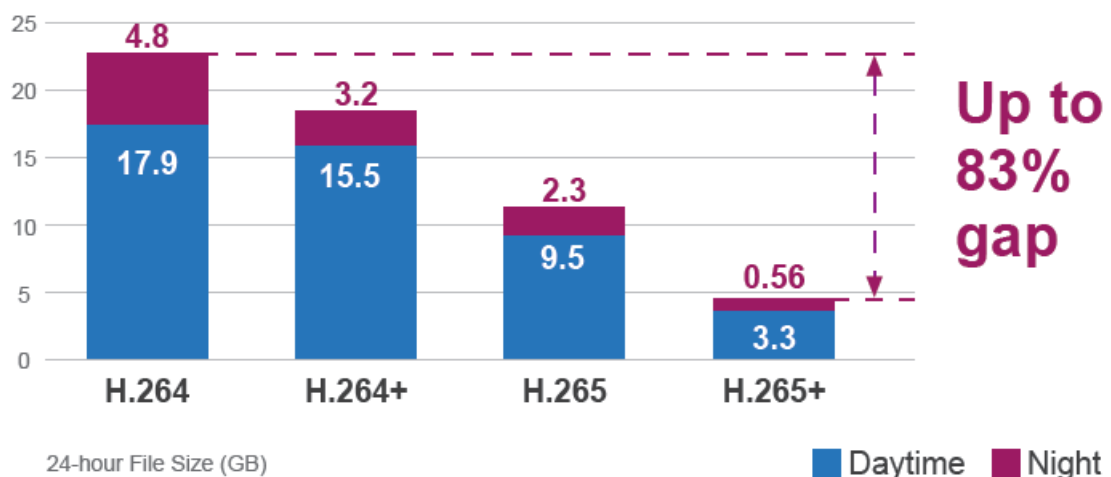
Power over Ethernet

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



High Efficiency Video Compression

- The ICA-3480 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 83% 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.



Advanced Media Management

- The ICA-3480 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, newly-added anti-overexposure protection function, three white balance modes, and five backlight compensation modes.

With more user-friendly GUI interface that allows users to better monitor, the ICA-3480 supports IPv6, QoS and IEEE 802.1x functions. Newly-added secure email for password reset and email encryption protocol now can support TLS.

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

Flexible Installation and Power Functionality

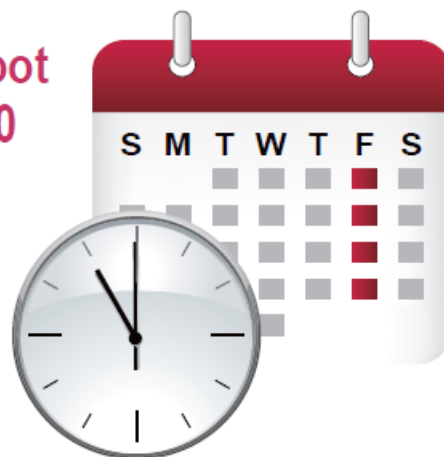
- Powered from a PoE power sourcing equipment such as 802.3af/at PoE switch or 802.3af/at PoE injector over a network cable, the ICA-3480, adopting the IEEE 802.3af/at standard, does not need extra power cables and manpower, thus reducing installation costs while increasing deployment flexibility and scalability. The ICA-3480 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-3480 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.

**Automatically Reboot
Every Friday 23:00**

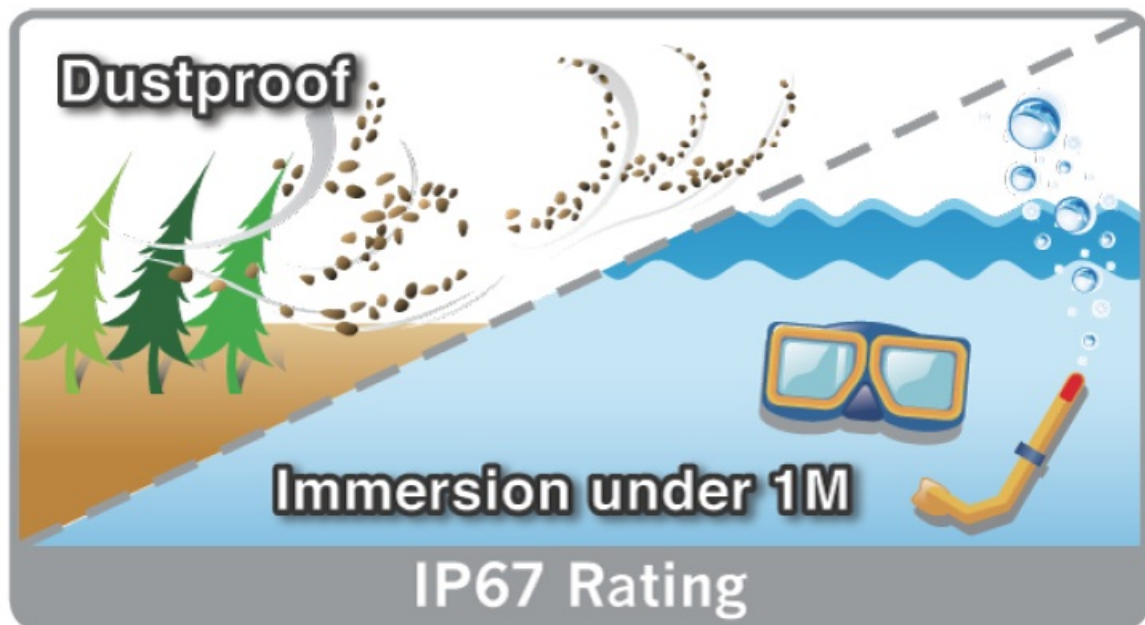


Remote Access via Mobile App, Web Browser or PVMS

- Remote management makes you easy to set the configuration and live viewing via Mobile App, NVR, HDVR, and Web browser. Besides, the ICA-3480 provides central surveillance management capability with the adoption of its bundled PLANET Video
- Management Software. With the PVMS, the ICA-3480 is expandable for multi-sites management of up to 256-ch IP cameras simultaneously. Users are able to monitor the IP cameras anytime, anywhere.

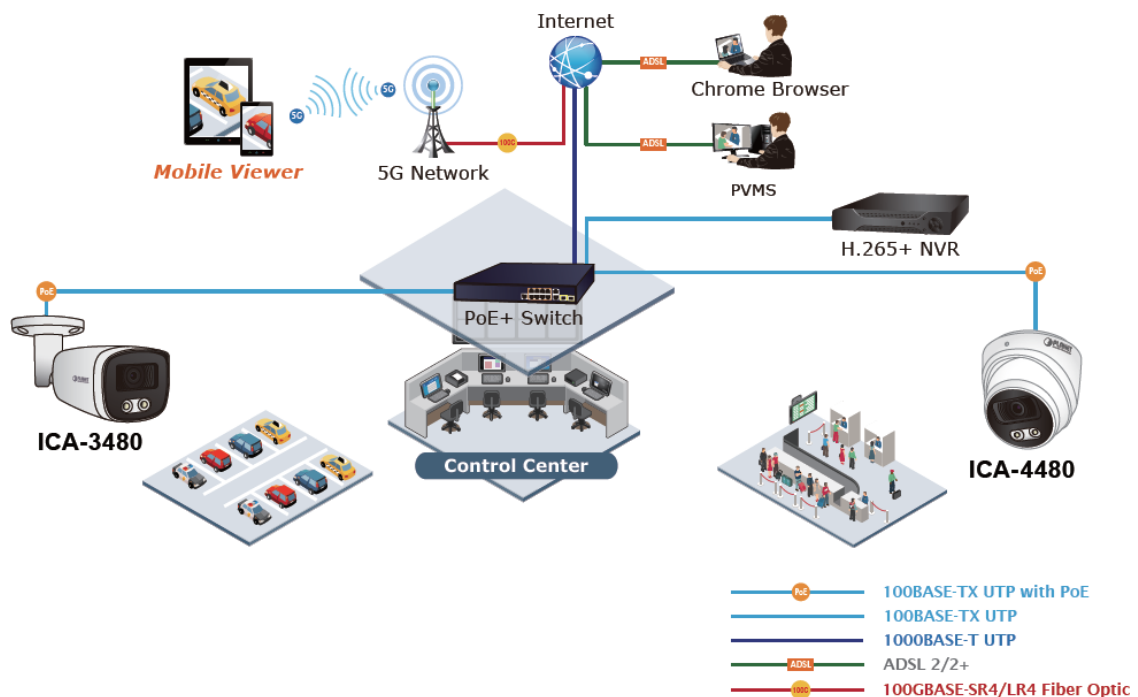
Water-resistant and Dust-proof Protection

- 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-3480 can offer various surveillance applications as it can capture clear images and is perfect for identifying objects and persons. Moreover, the ICA-3480 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 management app make you easy to do the configuration and live viewing. With powerful features offered, the ICA-3480 no doubt is your best choice for outdoor surveillance solution.



Specifications

Product	ICA-3480
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Camera			
Image Sensor	1/3" Progressive Scan CMOS Sensor		
Lens	Focus Length: 3.6mm Focus Control: Fixed Lens Type: Fixed Pixels:4MP Angle of view: Horizontal: 81 degrees Vertical: 41 degrees		
Min. Illumination	0.03 lux (color) @ F1.6 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)	2560 x 1440		
Power over Ethernet			
PoE Standard	IEEE 802.3af/at PoE PD		
Image			
Video Compression	H.264/H.264+/H.265/H.265+/JPEG/AVI/MJPEG		
Video Resolution	Item	Main Stream	
	Sub Stream		
	H.264/H.264+	2688 x 1512@25fps	
	H.265/H.265+	2560 x 1440@30fps 0@30fps	1280 x 720
		1920 x 1080@30fps 0@30fps 1280 x 720@30fps	720 x 48
MJPEG		/	
Frame Rate	Up to 25~30 fps for all resolutions		
Bitrate	32~16384kbps		
Shutter Time	Auto: 1/3-1/100000 Sec		

Image Setting	<p>Image Adjustment Exposure Settings Backlight Settings Day and night switch White Balance Video Adjustment Image Enhancement Defog Model Distortion</p> <p>OSD Settings</p> <p>Motion detection</p> <p>3 configurable regions of privacy mask to protect personal privacy</p>
Streaming	<p>Streaming over UDP, TCP, HTTP, or HTTPS Controllable frame rate</p> <p>M-JPEG streaming over HTTP (server push)</p> <p>Constant and variable bit rate</p>
Audio	
Audio Streaming	One-way audio
Audio Compression	G711A/U,AAC
Audio Input	External microphone input
Networking & Configuration	
Standards Compliance	<p>IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX</p> <p>IEEE 802.3af/at Power over Ethernet</p>
Protocol	<p>TCP/IP,IPv4/v6, ICMP, HTTP, HTTPS, FTP, DHCP, PLANET DDNS, Easy DNS,</p> <p>RTP, RTSP, RTCP, PPPoE, NTP, SMTP, UDP, QoS, 802.1X, P2P, IPEYE, Cloud</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 Brower	Microsoft IE8-11, Edge, Google Chrome, Firefox
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, Dutch, Czech, Vietnamese
System Integration	
Application Programming Interface	ONVIF compliant
Alarm Triggering	Motion detection / Video Tampering/ Intrusion Detection
Alarm Events	SMTP, FTP, Cloud (Google)
Hardware Specifications	
Power Requirements	12V DC, 0.7A IEEE 802.3af/at Power over Ethernet
Power Consumption	4.2W(IR on)
Dimensions (W x D x H)	70 x 169 x 67.5 mm
Weight	446g
Reset Button	Yes
LED	42μ x 2PCS
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
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-3480 H.265+ 4MP Smart IR Bullet IP Camera

Related Products

ICA-4280	H.265 1080p Smart IR Dome IP Camera
ICA-4480	H.265+ 4MP Smart IR Dome IP Camera
ICA-3480F	H.265+ 4MP Full Color Bullet IP Camera
ICA-4480F	H.265+ 4MP Full Color Dome IP Camera
ICA-M3580P	H.265 5 Mega-pixel Smart IR Bullet IP Camera with Remote Focus and Zoom
ICA-M4580P	H.265 5 Mega-pixel Smart IR Dome IP Camera with Remote Focus and Zoom
ICA-4460V	H.265 4MP PoE Dome IR IP Camera with Vari-focal Lens
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")

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Documents / Resources

	<p>PLANET Technology H.265+ 4MP Smart IR Bullet IP Camera [pdf] User Guide ICA-3480, H.265, H.265 4MP Smart IR Bullet IP Camera, 4MP Smart IR Bullet IP Camera, Smart IR Bullet IP Camera, IR Bullet IP Camera, IP Camera, Camera</p>
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References

- [Planet | Homepage](#)

Manuals+.