

H.265+ 4MP Full Color Dome IP Camera



Excellently Full Color Surveillance Video

PLANET ICA-4480F **4MP Full Color** 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. The new generation of **full color** technology is now equipped with **CMOS sensor** structure and software optimization. It can output high-quality color images even when the white light is off, making it possible to catch vivid color details at night.



Equipped with a tough **IP67-rated** metal housing and being able to operate under the temperature range from **-20 to 60** degrees C, the ICA-4480F can be easily installed 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.

Unique Warm White LED

The product is equipped with a high-power unique warm white LED, which will turn on the warm color system when the ambient light is insufficient at night. The LED light source achieves the full color effect of the night picture, and the effective distance is about **25M**. With the rear low-power image processing chip, it can strengthen the 2D and 3D noise reduction processing system.

Camera

- Full Color Dome
- 1/3" Progressive Scan CMOS Sensor
- 3.6mm fixed with 4MP lens
- 0.01 lux minimum illumination at F1.6
- 4000K warm LED, effective up to 25 meters
- Switchable warm light 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. resolutions of 2688 x 1512@25fps
- Supports Digital WDR (DWDR)
- 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

Power over Ethernet

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

Network Configuration and Management

- PPPoE, IPv4 DHCP Client and IPv4 Static IP Address management

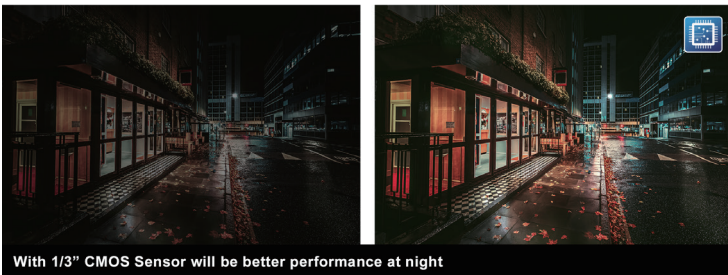
Automatic Warm White Light



Exceptional Image Quality by DWDR technology

Incorporating the 1/3" 4MP CMOS image sensor and 25-meter 4000K smart warm LED, which are specially designed for surveillance applications, the ICA-4480F provides sharp images under all lighting conditions, used to better monitor any situation that occurs on the spot.

1/3" CMOS Sensor



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 WDR (DWDR)** and **3-dimensional noise reduction (3DNR)** technology, the ICA-4480F 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.



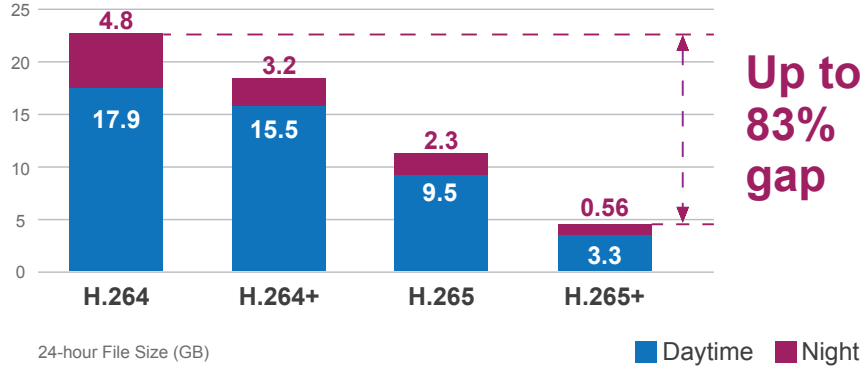
- Supports IPv6
- PLANET DDNS and Easy DDNS, TCP/IP, UDP, PPPoE, HTTPS, ICMP, FTP, SMTP, P2P, DNS, RTP, NTP, Cloud, RTSP, RTCP Encryption and IPEYE available options
- ONVIF compliant for interoperability
- SNTP Network Time Protocol/synchronize with computing time
- Schedule power rebooting
- System log
- User management options for various authorities:
 - Admin
 - Operator
 - Guest
- System maintenance
 - Firmware upload/download via HTTPS
 - 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

High Efficiency Video Compression

The ICA-4480F 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.



Advanced Media Management

The ICA-4480F 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-4480F 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

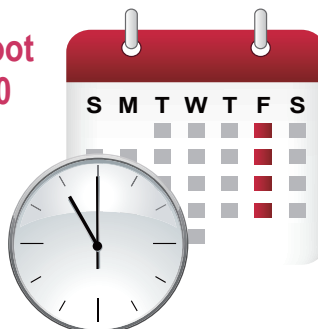
Powered from a PoE power sourcing equipment such as 802.3af/at PoE switch or 802.3af/at PoE injector over a network cable, the ICA-4480F, adopting the IEEE 802.3af standard, does not need extra power cables and manpower, thus reducing installation costs while increasing deployment flexibility and scalability. The ICA-4480F 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-4480F 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



Water-resistant and Dust-proof Protection

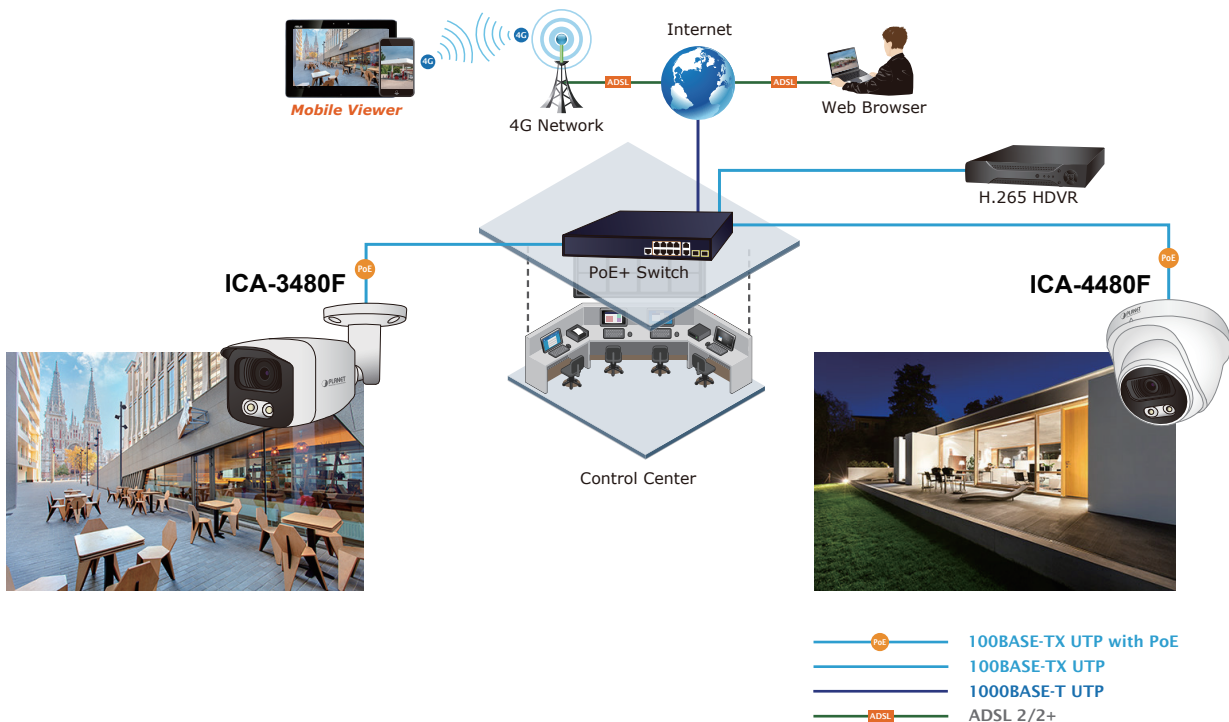
The IP67-rated metal housing protects the camera body against rain and dust, and ensures operation under extreme weather conditions, which makes it an ideal solution for outdoor applications, such as buildings, roads, parking areas, garages, railway stations and airports.



Applications

High Scalability for Various Industrial IP Surveillance Solutions

PLANET high-resolution ICA-4480F can offer various surveillance applications as it can capture clear images and is perfect for identifying objects and persons. Moreover, the ICA-4480F 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-4480F no doubt is your best choice for outdoor surveillance solution.



Specifications

Product	ICA-4480F		
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	0.01 lux (color) @ F1.6 0lux (B/W) @ Warm light on		
IR Illuminations	Built-in 4000K warm LED, effective up to 25 meters *The warm light distance is based on the environment		
Effective Pixels (H x V)	2560 x 1440		
Power over Ethernet			
PoE Standard	IEEE 802.3af PoE PD		
Image			
Video Compression	H.264/H.264+/H.265/H.265+/JPEG/AVI		
Video Resolution	Item	Main Stream:	Sub Stream
	H.264/H.264+	2688 x 1512@25fps 2560 x 1440@30fps	1280 x 720@30fps 720 x 480@30fps
	H.265/H.265+	1920 x 1080@30fps 1280 x 720@30fps"	
Frame Rate	Up to 25~30 fps for all resolutions		
Bitrate	32~16384kbps		
Shutter Time	Auto: PAL 1/25-1/10000Sec; NTSC 1/30-1/10000Sec		
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 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		
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	PPPoE, IPv4 DHCP Client and IPv4 Static IP Address management Support IPv6. 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, Dutch, Czech, Vietnamese		

System Integration	
Application Programming Interface	ONVIF compliant
Alarm Triggering	Motion detection
Alarm Events	SMTP, FTP, Cloud(Google, Dropbox)
Hardware Specifications	
Power Requirements	12V DC, 1A IEEE 802.3af Power over Ethernet standard
Power Consumption	4.2W(Warm light on)
Dimensions (Φ x L)	109 x 93 mm
Weight	600g
Reset Button	Yes
LED	4000K warm LED LED Reflector 1: φ 60° LED Reflector 2: φ 105°
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

Ordering Information

ICA-4480F	H.265+ 4MP Full Color Dome IP Camera
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Related Products

ICA-3280	H.265 1080p Smart IR Bullet IP Camera
ICA-4480F	H.265 1080p Smart IR Dome IP Camera
ICA-3480F	H.265+ 4MP Full Color Bullet 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
NMS-500	Universal Network Management Controller
NMS-1000V	Universal Network Management Controller with LCD Touch Screen (10"/12")