

# 5 Mega-pixel 20M IR Vari-focal Dome IP Camera



## Exceptional Surveillance with Vari-focal 5 Mega-pixel Camera

PLANET ICA-4500V Network Camera with IR illuminator is a high resolution camera for round-the-clock surveillance over IP networks. It supports H.264, MPEG-4 and JPEG compression formats, and delivers excellent picture quality in 5 mega-pixel resolutions at 15 frames per second (fps) and Full HD resolutions at 30 fps. It is perfect for remote and discreet monitoring of indoor areas such as stores, banks, hotels, office lobbies, and warehouses.

## 5 Mega-Pixel Resolution



## Vari-focal Offers the Best Recording Flexibility

The ICA-4500V incorporates the mega-pixel vari-focal lens, which has the option of selecting a high millimeter setting for narrow viewing fields or a low millimeter setting for wider viewing fields. The ICA-4500V provides high quality images under all lighting conditions.



Vari-focal lens for available focal lengths

## Camera

- 1/3" progressive 5 mega-pixel CMOS sensor
- 3.3~12.0 mm vari-focal, DC auto-iris Lens
- 0.5 lux minimum illumination at F1.4
- Maximum resolution 2592 x 1944
- Removable IR-cut filter for Day & Night function
- Built-in PIR sensor (6m/120 degree coverage) for thermal / motion detection

## Video / Audio

- H.264 / MPEG-4 and M-JPEG video compression simultaneously
- Simultaneous multi-stream support
- H.264 high profile, main profile and baseline
- Max. resolution of 1080P at 30fps and 5 mega-pixel at 15fps
- 3DNR to improve picture quality at low lux
- WDR Enhancement to enhance visibility under extremely bright or dark environments
- 2-Way audio support with enhanced audio quality
- Tamper and audio detection for unauthorized changes

## Network and Configuration

- Compliant with IEEE 802.3af PoE interface for flexible deployment
- Equipped with Gigabit Ethernet port
- Auto MDI/MDI-X supported
- Supports for IPv6 in addition to the standard IPv4
- RTSP / UPnP / 3GPP / HTTPS protocols selectable

## Easy Installation & Management

- ONVIF compliant for interoperability
- Built-in 12 IR illuminators, effective up to 20 meters
- Intelligent Motion / Tampering / Audio Detection alarm triggers
- Built-in Samba client for NAS
- 3GPP for 3G mobile remote applications
- Micro SD card local video recording supported
- RS485 interface for P/T scanner control
- Digital Input/Output for integration with sensors and alarms
- Cam Viewer 3 central management software supported

*Day & Night Functionality*

To adapt to constantly changing lighting conditions, the ICA-4500V comes with a removable IR-Cut filter and built-in IR illuminators, which enables the camera to provide color video when there is sufficient light, and black/white video in dark conditions. The ICA-4500V is able to maintain clear images 24 hours a day.



*Exceptional Image Quality*

Together with powerful image processing attributes like Wide Dynamic Range and 3D Digital Noise Reduction (3DNR) technology, the ICA-4500V is able to filter the intense backlight surrounding a subject and remove noises from video signal. It brings an extremely clear and exquisite picture quality even under any challenging lighting conditions.



*Passive InfraRed (PIR) Sensor*

When people pass by or in an emergency situation, the built-in PIR motion detection sensor in the ICA-4500V will “detect” and start recording automatically. It is able to detect movement as far away as 6 meters. When motion is detected in the specified areas, the additional function of alarm notification can send an e-mail alert or send captured images via FTP uploaded to a designated storage server.



*Camera Tampering and Audio Detection*

Provided with three individually configurable motion detection zones, the ICA-4500V can record video or trigger alarms and alerts when motion is detected in user-specified areas of the camera image. Also, its built-in microphone enables the system to capture the sound that out reach of camera's surveillance range and to trigger the audio detection alarm when sounds like screams, glass breaking, etc are detected.





*Advanced Event Management*

To enhance surveillance flexibility and event management capabilities, the ICA-4500V supports a number of advanced features including Auto-Iris to avoid overexposure, AV out to perform the two-way audio function, RS485 to connect to an optional pan/tilt enclosure which effectively supports pan/tilt functionality, and inputs/outputs to connect with external devices such as door sensors and relays to activate light or close doors.

## Two-Way Audio

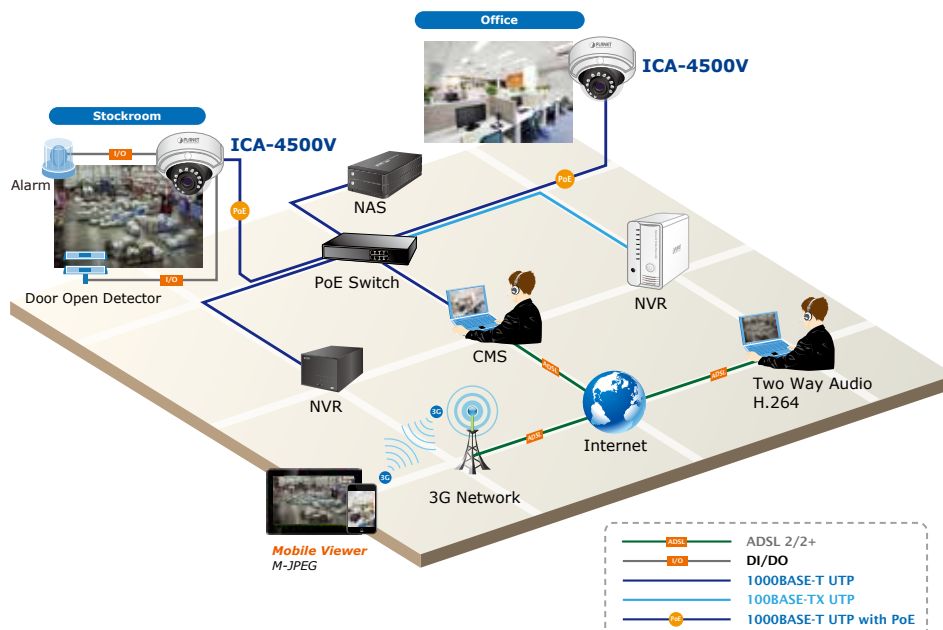


*Flexible Installation and Power Functionality*

The ICA-4500V incorporates IEEE 802.3af Power over Ethernet standard and able to be powered via the network cable from a PoE power sourcing equipment such as PoE switch and PoE injector. It thus eliminates the need of extra power cables and reduces installation costs while increases the deployment flexibility. In addition, the ICA-4500V provides advanced features such as the Gigabit Ethernet transmission, giving users the utmost in bandwidth flexibility and storage efficiency. The ICA-4500V is ONVIF compliant and therefore interoperable with other manufacturers' products. It also includes 64-CH central management software for ease of maintenance and remote monitoring. The ICA-4500V is indisputably the top choice for reliable and high performance surveillance.

## Applications

PLANET ICA-4500V can be applied in various surveillance applications. It captures clear images and is perfect for the identification of objects and people in indoor surveillance. Moreover, the ICA-4500V supports 802.3af PoE interface to facilitate the surveillance deployment without worrying the electric source.



## Specifications

Model	ICA-4500V
<b>Camera</b>	
Image device	1/3" type progressive scan CMOS sensor
Lens	Vari-focal 3.3~12.0mm, DC Auto-Iris Mechanical IR cut Filter Angle of view : horizontal: 27 ~ 82 degrees / vertical: 19 ~ 64 degrees
Min Illumination	0.5 Lux (Color) @ F1.4 0.1 Lux (B/W)
IR Illuminations	IR LED x 12, 850nm Built-in IR illuminators, effective up to 20 meters
Effective Pixels	2592x1944 pixels (4:3)
PIR Sensor	1 x Built-in sensor with adjustable 120 degrees direction Effective Distance: 6 meters Effective Coverage: 120 degrees
<b>Image</b>	
Video Compression	H.264 / MPEG-4 / M-JPEG
Video Resolution	<b>5 mega-pixel mode</b> H.264: 2592 x 1944 / 1280 x 960 / 640 x 480 / 320 x 240 <b>2 mega-pixel (Full HD) mode</b> H.264: 1080P / 1280 x 720 / 640 x 360 / 320 x 180 MPEG4: 1280 x 720 / 640 x 360 / 320 x 180 M-JPEG: 1080P / 1280 x 720 / 640 x 360 / 320 x 180
Frame Rate	Up to 30fps for Full HD resolution Up to 15fps for 5 mega-pixel resolution
Image Setting	AE, AWB 3D noise reduction WDR Color, brightness, sharpness, contrast Mirror/Flip 10 Privacy Masks Text, time and date overlay Overlay image on video
Streaming	Simultaneously multi-profile streaming Streaming over UDP, TCP, HTTP, or HTTPS M-JPEG streaming over HTTP (server push) Supports 3GPP mobile surveillance (MPEG4) Controllable frame rate and bandwidth Constant and variable bit rate (MPEG4/H.264) ROI
<b>Audio</b>	
Audio Streaming	2-way audio
Audio Compression	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Microphone	External microphone input
Audio Output	Adjustable audio output gain
<b>Network and Configuration</b>	
Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T
Protocol	IPv4, IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, IGMP, PPPoE, 3GPP, ICMP, Samba
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, user access log
Users	20 clients on-line monitoring at the same time
<b>System Integration</b>	
Application Programming Interface	Open API for software integration ONVIF Compliant
Alarm Triggers	Intelligent Motion / Tampering / Audio detection and external input
Alarm Events	File upload via FTP, Samba to NAS, SD card or email Notification via email, HTTP, and TCP External output activation Audio alert output Go to PTZ preset position
Video Buffer	Pre- and post-alarm buffering

## Specifications

General	
Power Requirements	12V DC, 1A IEEE 802.3af Class 3
Power Consumption	8W max.
Operating Temperature	-10 ~ 40 degrees C
Operating Humidity	20 ~ 80% (non-condensing)
Weight	635g
Dimensions (Φ x L)	152 x 109 mm
Emission	CE, FCC
Connectors	10/100/1000 Mbps Gigabit Ethernet, RJ-45 DC power jack Terminal block for 1 alarm input and 1 output RS-485 interface for scanners, pan/tilt External mic input Audio out Composited video out (max. resolution: D1 720 x 480 pixel) Micro SD/SDHC card (max 32GB, Class 6) Factory default reset

## Ordering Information

ICA-4500V	5 Mega-pixel 20M IR Vari-focal Dome IP Camera
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## RELATED Products

ICA-4200V	Full HD 20M IR Vari-focal Dome IP Camera
ICA-5350V	3 Mega-pixel Vandalproof IR IP Camera
ICA-HM132	H.264 2 Mega-pixel 20M IR Vari-focal Dome IP Camera
ICA-HM136	H.264 2 Mega-pixel 20M IR Vandalproof Dome IP Camera
CV3P-4	4-Channel Cam Viewer 3 Professional
CV3P-8	8-Channel Cam Viewer 3 Professional
CV3P-16	16-Channel Cam Viewer 3 Professional
CV3P-36	36-Channel Cam Viewer 3 Professional
CV3P-64	64-Channel Cam Viewer 3 Professional
NVR-420	4-Ch Network Video Recorder with HDMI
NVR-810	8-CH Network Video Recorder
NVR-1610	16-CH Network Video Recorder
NVR-3210	32-CH Network Video Recorder
NVR-3250	32-Ch Rack Mount Network Video Recorder
CV3-M1024	1024-Channel Central Management Software