

Full HD 20M IR Vari-Focal Dome IP Camera

ICA-4200V



www.planet.com.tw

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Presentation Outline

- ◆ **Product Overview**
- ◆ **Product Features**
- ◆ **Management**
- ◆ **Product Application**
- ◆ **Product Comparison**



IP Surveillance
Full HD 20M IR Vari-Focal Dome IP Camera

Available on the App Store

ANDROID MARKET

ICA-4200V

ONVIF Supported

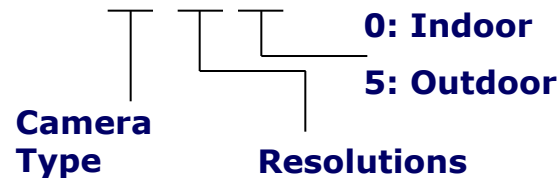
The advertisement banner features a white dome IP camera in the foreground. In the background, a smartphone and a tablet display a live surveillance feed of a modern building interior. The text "IP Surveillance" is prominently displayed in white, with "Full HD 20M IR Vari-Focal Dome IP Camera" in orange below it. Logos for the App Store, Android Market, and ONVIF are also present.

Product Overview



◆ Camera Naming Rule

ICA-4200V



Wireless Function

- Wi-Fi – W

Camera Type

- Cube – 1
- Box – 2
- Bullet – 3
- Dome – 4
- Vandal Dome – 5
- Speed Dome – 6
- PTZ – 7
- Fisheye – 8

Resolutions

- VGA / D1 - 0
- 1M / 720P - 1
- Full HD (2M) - 2
- 3MP - 3
- 4MP - 4
- 5MP - 5

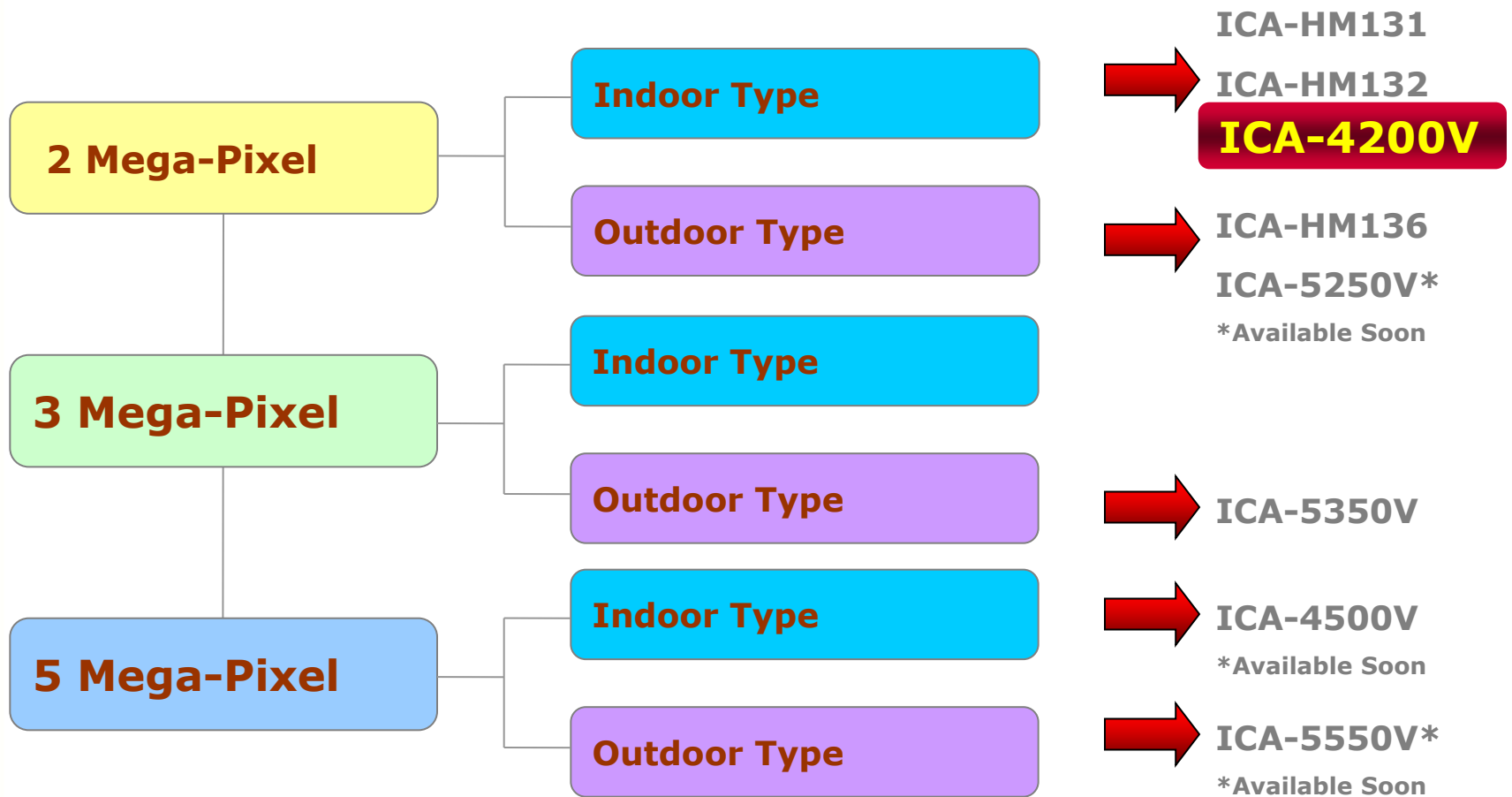
Camera Function

- Vari-Focal – V
- Industrial – T



Product Overview

◆ PLANET IP Surveillance – Dome type Product Classification



Product Overview

◆ Front Panel View of ICA-4200V

Exmor
CMOS Sensor

Sony Exmor™ CMOS sensor

**6 meters / 120 Degree
Passive InfraRed**



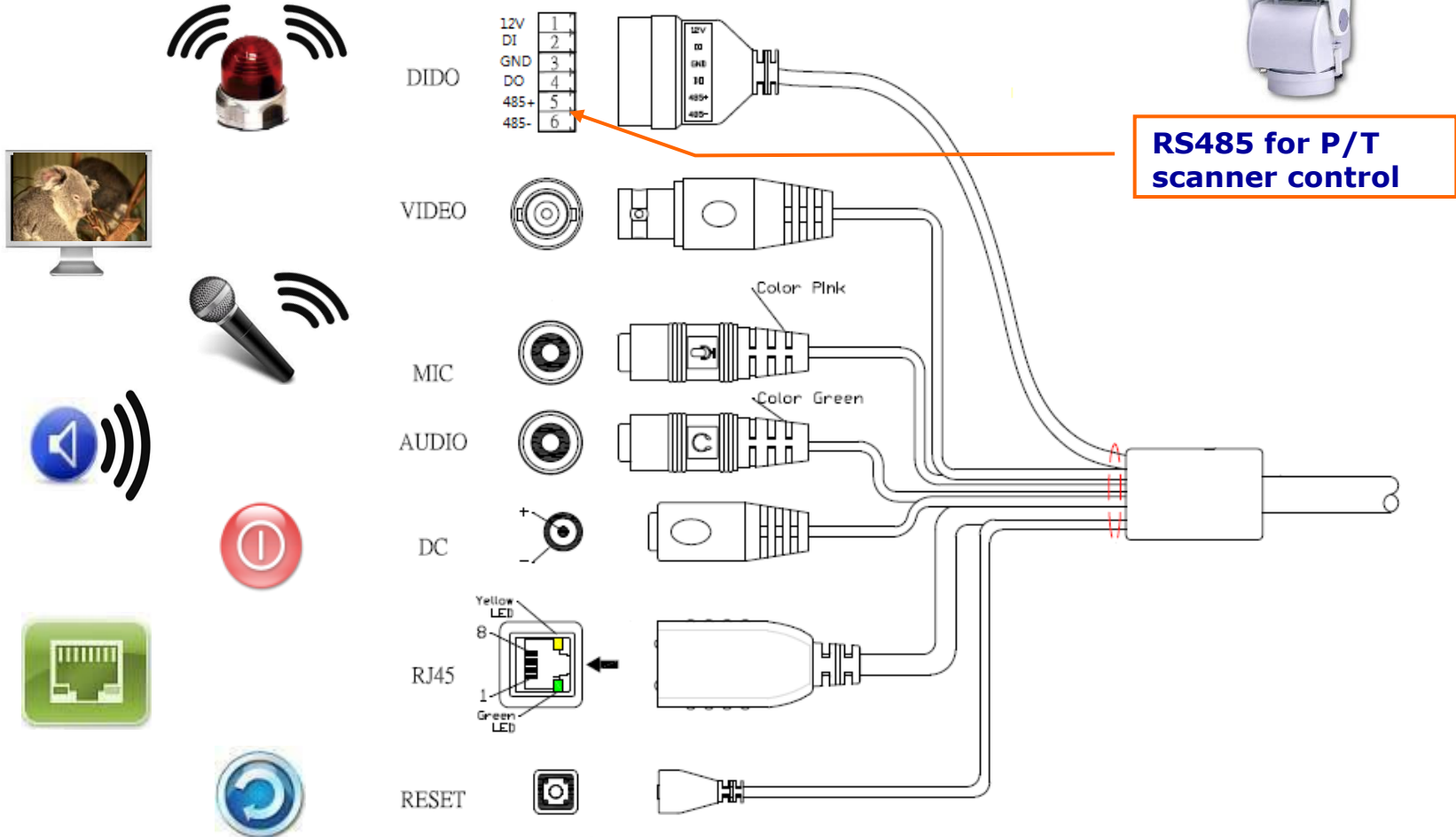
**3.3~12 mm
Vari-focal Lens**

**12* IR LED up
to 20 meters**

Infrared Sensor

Product Overview

I/O Control Instruction



Product Features

◆ Camera

- ✓ Sony's 1/2.8 type “**Exmor**” Progressive scan CMOS sensor
- ✓ **3.3~12** mm Vari-focal, DC Auto-iris Lens
- ✓ 0.5 lux Minimum Illumination at F1.2
- ✓ Maximum resolution **1920 x 1080**
- ✓ **Removable IR-cut Filter** for Day & Night Function
- ✓ Built-in **PIR** sensor (**6m/120 degree coverage**) for thermal / motion detection

◆ Video and Audio

- ✓ **H.264 / MPEG4 and MJPEG** video compression simultaneously
- ✓ Simultaneous multi-stream support
- ✓ H.264 high profile, main profile and baseline
- ✓ Max. Resolution **1080P at 30fps**
- ✓ **3DNR** to improve picture quality at low Lux
- ✓ **WDR** Enhancement for enhance visibility under extremely bright or dark environments
- ✓ **Two-way** audio support with enhanced audio quality

Product Features

◆ Network and Configuration

- ✓ Compliant with **IEEE 802.3af PoE** interface for flexible deployment
- ✓ Equipped with **Gigabit Ethernet** port
- ✓ Auto MDI/MDI-X supported
- ✓ Support for **IPv6** in addition to the standard IP protocol version 4
- ✓ RTSP / UPnP / 3GPP / HTTPS protocols selectable

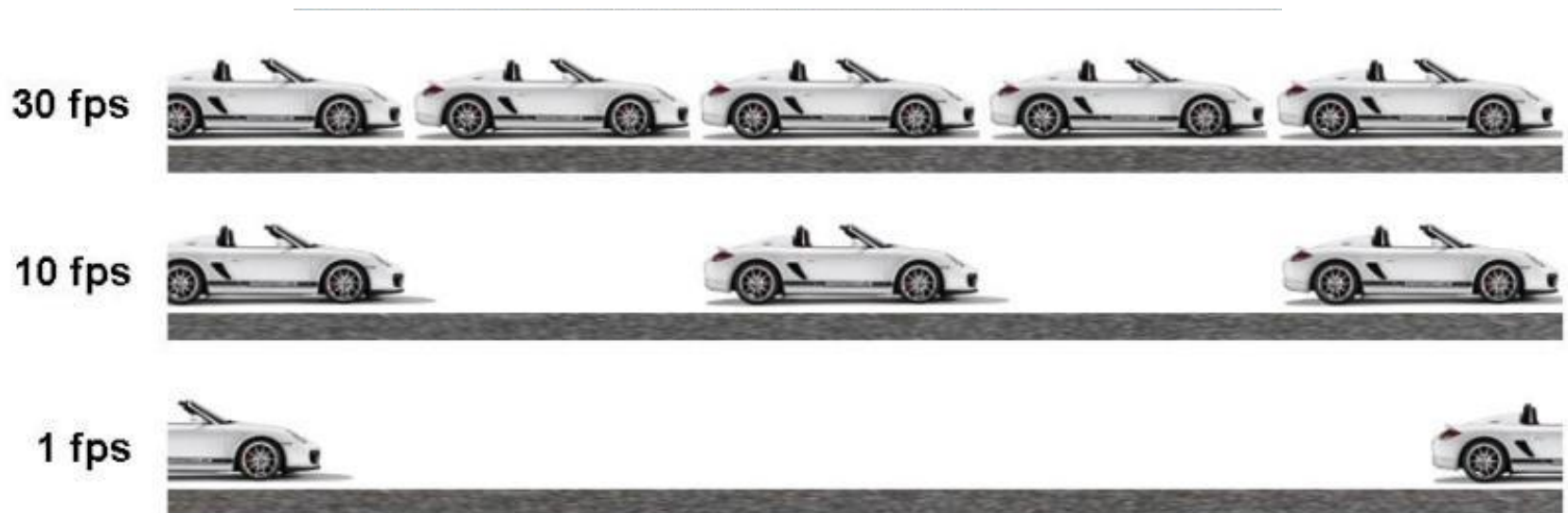
◆ Easy Installation & Management

- ✓ **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/Outputs** for integration with sensors and alarms
- ✓ **Cam Viewer 3** Central management software supported

Product Features

◆ Superb Full HD Quality for Professional Surveillance

- ✓ Supports H.264, MPEG-4, and MJPEG compression formats and delivers excellent picture quality in **Full HD** resolutions at **30** frames per second (fps).



Product Features

Full HD
1080

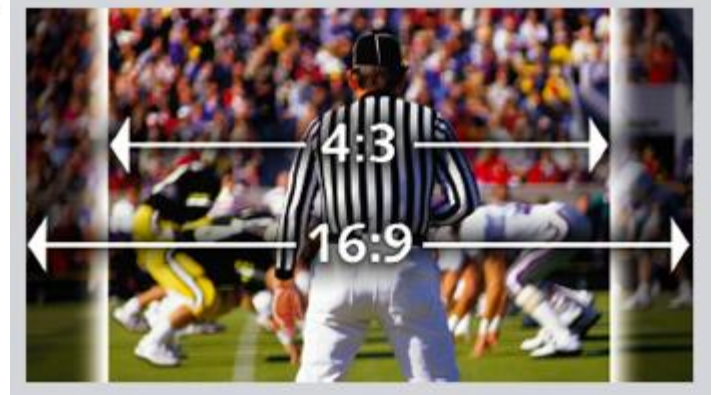
◆ High-Definition Television Resolutions

- ✓ HDTV provides up to five times higher resolution than standard analog TV. Full HD also has better color fidelity and a **16:9** format.

4:3



16:9



Product Features

◆ Day & Night functionality

- ✓ With **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.



Product Features

◆ Exceptional Image quality

- ✓ **WDR** (Wide Dynamic Range) Enhancement for enhance visibility under extremely bright or dark environments



Product Features

- ◆ **Exceptional Image quality**

- ✓ **3DNR** (3-Dimension Noise Reduction) to improve picture quality at low Lux



Product Features

◆ Passive InfraRed (PIR) Sensor

- ✓ The built-in PIR motion detection sensor in the ICA-4200V will “detect” and start recording automatically. It is able to detect movement far from **6** meters away.



Product Features

◆ Camera Tampering and Audio Detection

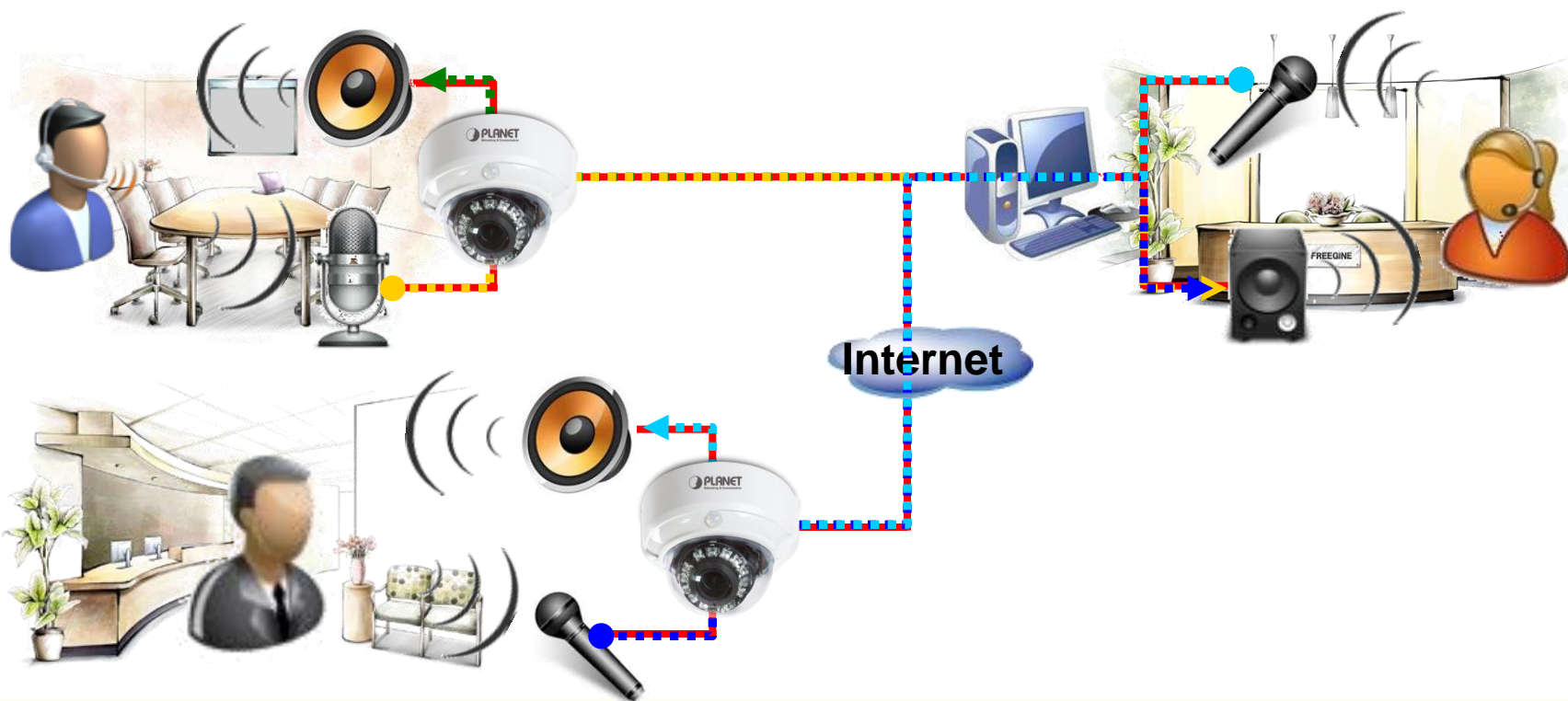
- ✓ Active Tampering Alarm detects incidents such as the camera is attacked, spray-painted, or intentionally covered. Active Audio Alarm detects incidents such as screams, glass breaking and etc are detected



Product Features

◆ Support 2-way Audio

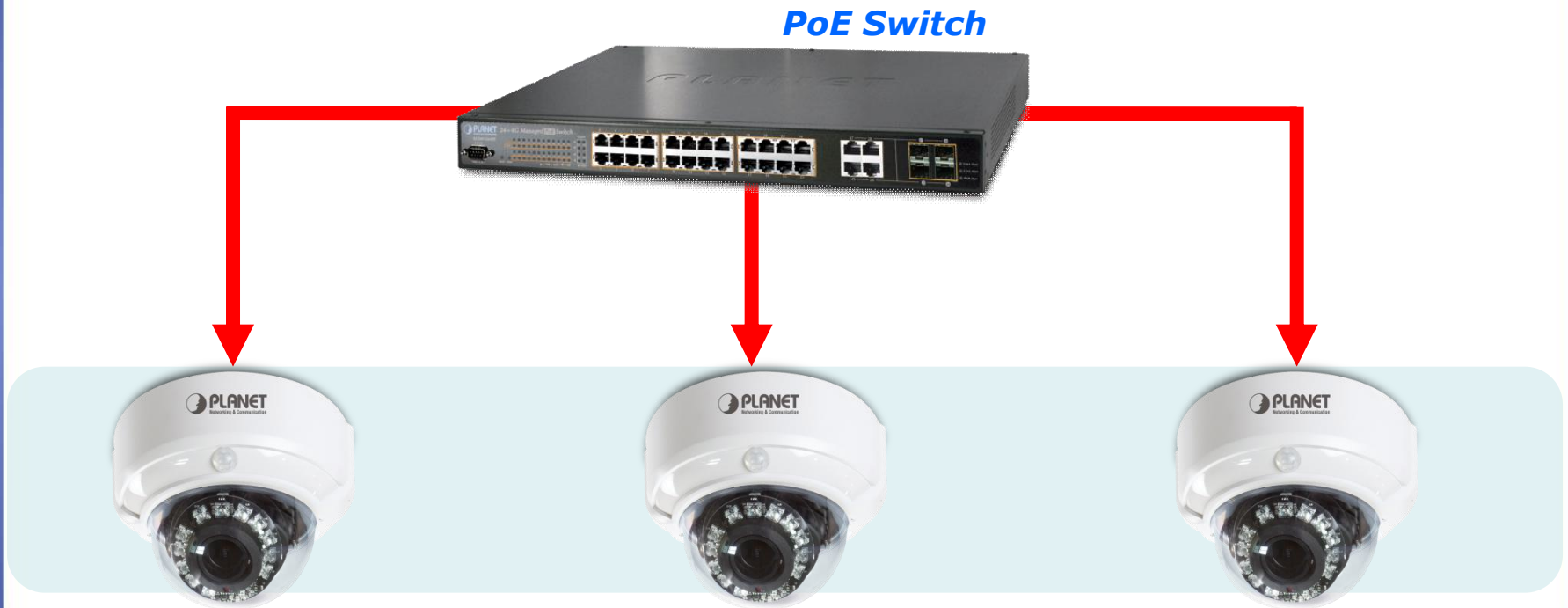
- With **2-Way audio** function, IP camera becomes a bridge that helps users to talk to other people.
- Via two IP cameras, users can easily communicate to each other no matter for a international meeting or a personal chat.



Product Feature

◆ Power over Ethernet

- ✓ **IEEE802.3af support** makes the camera can be installed anywhere without the need for additional power socket for the IP camera.



Compliant with IEEE 802.3af standard PoE interface. It can assist in locating cameras in places where there are no power outlets.

Product Features

◆ Surveillance On-The-Go

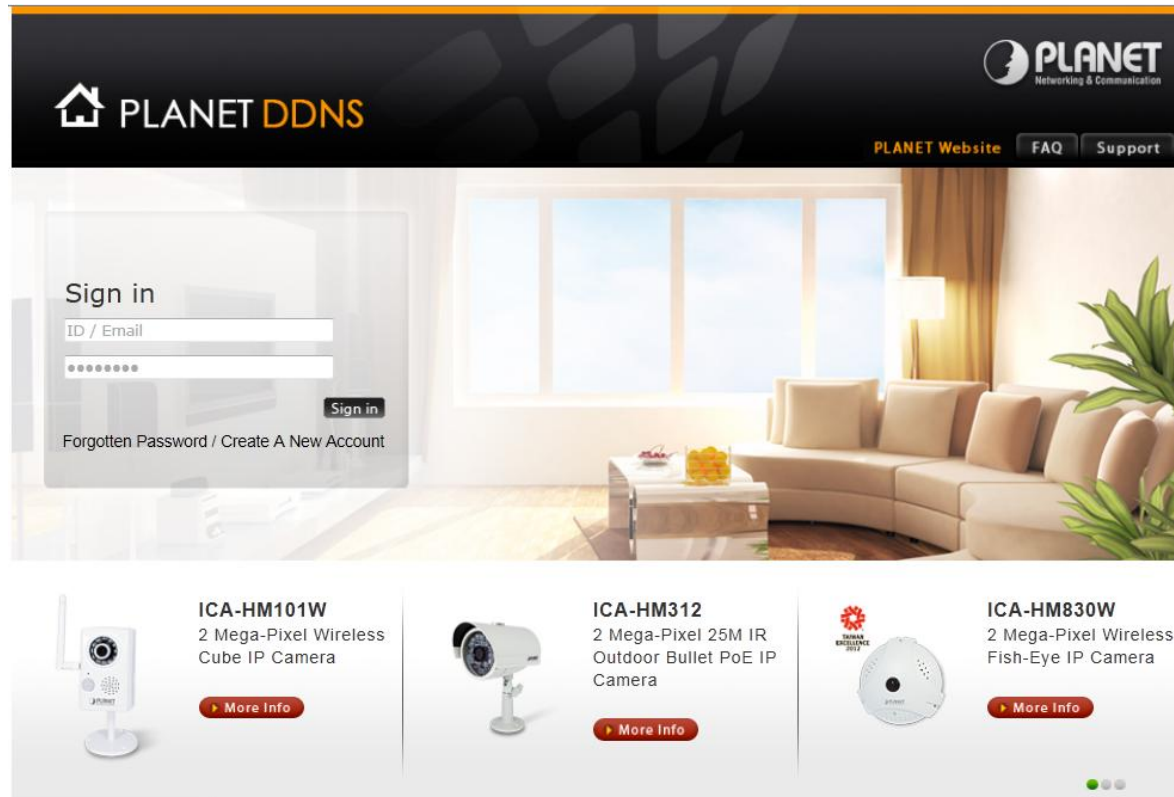
- ✓ With the **iCV3a** app for iPhone/iPad or **aCV3m** for Android, you can quickly and easily see your camera feed from anywhere with Wi-Fi or 3G connection.



Product Features

- ◆ **Access anytime & anywhere**

Sign-in **PLANET Easy-DDNS** to register a simple domain name to access home device anytime and anywhere.



The screenshot shows the PLANET DDNS website interface. At the top, there is a navigation bar with the PLANET logo and links for 'PLANET Website', 'FAQ', and 'Support'. The main content area features a 'Sign in' form with fields for 'ID / Email' and a password field, a 'Sign in' button, and links for 'Forgotten Password' and 'Create A New Account'. Below the sign-in form, there are three product listings:

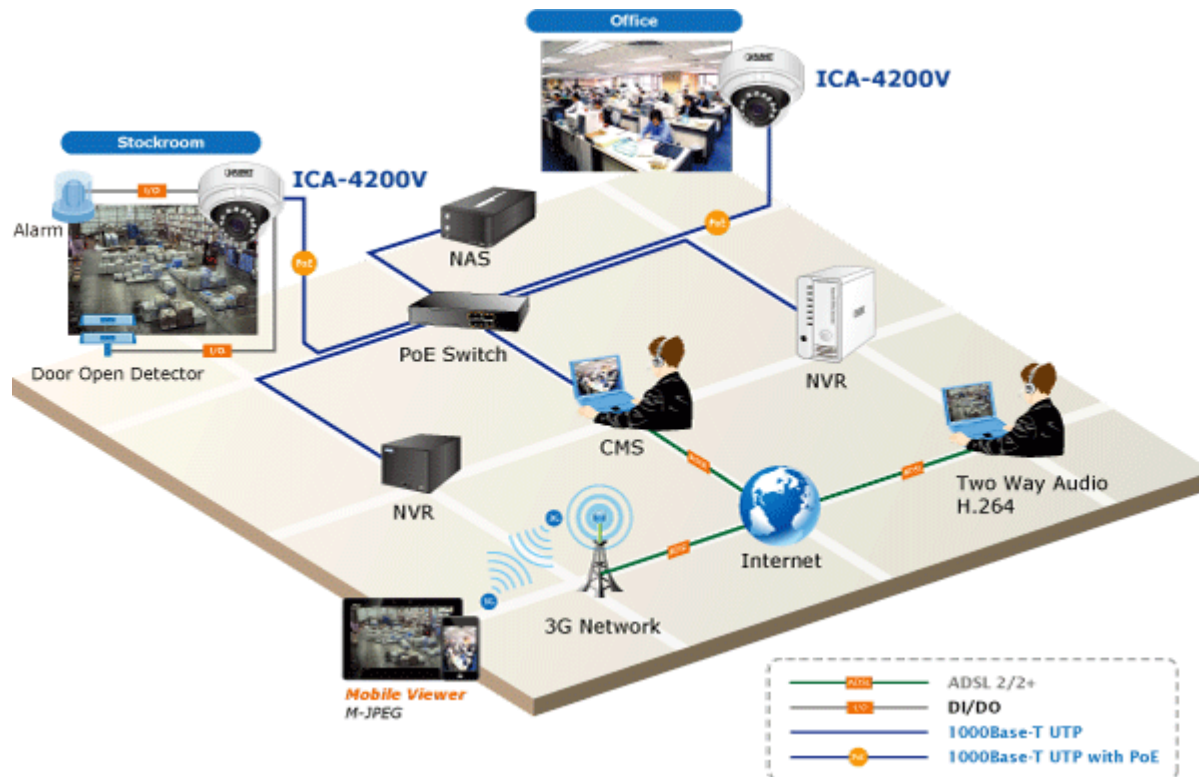
- ICA-HM101W**: 2 Mega-Pixel Wireless Cube IP Camera. Includes a 'More Info' button.
- ICA-HM312**: 2 Mega-Pixel 25M IR Outdoor Bullet PoE IP Camera. Includes a 'More Info' button.
- ICA-HM830W**: 2 Mega-Pixel Wireless Fish-Eye IP Camera. Includes a 'More Info' button.

[Already a planetddns user ? Log in now](#)



Application

◆ **Provide various surveillance applications**



- ✓ **PLANET ICA-4200V 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-4200V supports 802.3af PoE interface to facilitate the surveillance deployment without worrying the electric source.**



Product Comparison - Internal

Model	ICA-4200V	ICA-HM132
Features		
Sensor size in megapixel	Full HD	2.0 Mega-Pixel
Sensor	1/2.8" Sony Exmor Progressive CMOS	1/3" 2Mega-Pixel CMOS Sensor
Lens	3.3~12.0 mm, F1.2	2.7 ~9.0 mm, F1.2
Max resolution @ FPS	1920*1080@30fps (16:9)	1600*1200 @15fps (4:3)
PIR	V	-
WDR	V	-
3DNR	V	-
PoE	V (8W max)	V (6W max)
2-Way Audio	V	V
ICR	V	V
IR Distance	V (20 meter)	V (20 meter)
Tampering Detection	V	-
Audio Detection	V	-
IPv6	V	-
Local storage	V (mSD)	V (mSD)
PLANET DDNS	V	V
ONVIF	V	V

Product Comparison - External

Model	PLANET ICA-4200V	Sony SNCDH120 \$798.00 U.S.
Features		
Sensor	1/2.8" Sony Exmor Progressive CMOS	1/3" Sony Exmor Progressive CMOS
Lens	3.0~9.0 mm, F1.2~2.7	3.1~8.9 mm, F1.2
Image Compression	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG
Max resolution @ FPS	1920*1080 (30fps) 1280*720 (30fps)	1280*1024 (20fps) 1280*720 (30fps)
PIR	V	-
WDR	V	-
3DNR	V	-
PoE	V (8W max)	V (6W max)
2-Way Audio	V	V
ICR	V	V
IR Distance	V (20 meter)	-
Tampering Detection	V	-
Audio Detection	V	-
Local storage	V (mSD)	-
IPv6	V	-
ONVIF	V	V

Appendix Sales Target

◆ Target Markets

- ✓ IP Surveillance System Integrator
- ✓ SMB Office / Home Security
- ✓ Reseller

◆ Target Customers

✓ Who buy our Dome Type IP Camera

- ICA-HM131 / ICA-HM131R
- ICA-HM132
- ICA-HM136
- ICA-5350V
- CAM-DM33

✓ Who buy our CV3P / NVR

- NVR-401 / NVR-420
- NVR-810 / NVR-1610
- NVR-3210 / NVR-3250



ACTIVATING IP POWER



Appendix Must Know

◆ Technical Zone

✓ Bandwidth and Video Size Estimation

- The frame rate of video transmitted from the Internet Camera depends on connection bandwidth between client and server, video resolution, codec type, and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements for your Internet Camera.
- The required bandwidth depends on content of video source. The slow motion video will produce smaller bit rate generally and fast motion will produce higher bit rate vice versa. Actual results generated by the Internet Camera may be varying.

Image Resolution	Average range of data sizes for JPEG mode	Average bit rate for MPEG4 mode	Average bit rate for H.264 mode
320 x 240	8 ~ 20k byte per frame	256kbps~768kbps @ 30fps	192kbps~512kbps @ 30fps
640 x 480	20 ~ 50K byte per frame	512kbps~3072kbps @ 30fps	384kbps~1536kbps @ 30fps
1920 x 1080 Full HD	200 ~ 500k byte per frame	-	1536kbps~10000kbps @ 30fps
2048 x 1536 3 MP	300 ~ 750k byte per frame	-	2048kbps~12000kbps @ 30fps