

## ICA-HM316W

# 2 Mega-Pixel 11n Outdoor IR IP Camera



#### Professional Outdoor Wireless Surveillance with Superb UXGA Quality

The PLANET ICA-HM316W 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 2 Mega-Pixel resolutions at 15 frames per second (fps). Compliant with IEEE 802.11b/g/n, the ICA-HM316W enables users to access to Internet through up to 150Mbps high speed and secure Wireless transmission with WEP / WPA encryptions. The IP66-rated housing protects the ICA-HM316W against rain and dust and ensures stable operation under extreme weather conditions. The ICA-HM316W is an ideal solution for outdoor surveillance applications such as buildings, roads, parking areas, garages, railway stations and airports.



#### Day & Night Functionality

To adapt to constantly changing lighting conditions, the ICA-HM316W 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-HM316W is able to maintain clear images 24 hours a day.

#### Camera

- 1/3.2" 2MP progressive scan CMOS sensor
- 3.6~16 mm Vari-focal, DC Auto-Iris Lens
- 0 lux Minimum Illumination at F1.2
- Maximum resolution 1600 x 1200
- Removable IR-Cut Filter for Day & Night Function

#### Video / Audio

- H.264, MPEG-4 and M-JPEG video compression simultaneously
- · Simultaneous multi-stream support
- Up to 30fps for 1280 x 720 resolutions and 15fps for 1600 x 1200 resolutions
- · 2-Way audio support with enhanced audio quality

#### Network and Configuration

- Complies IEEE 802.11b/g/n wireless standard with WEP and WPA encryption
- Auto MDI/MDI-X supported
- · RTSP / UPnP / 3GPP / HTTPS protocols selectable

#### Easy Installation & Management

- · ONVIF compliant for interoperability
- · Built-in 35 IR Illuminators, effective up to 25 meters
- IP66 outdoor classifications for stable operation under rigorous environment
- · Built-in Samba client for NAS
- · 3GPP for 3G mobile remote applications
- Digital Input/Output for integration with sensors and alarms
- Cam Viewer 3 Central management software supported





#### Exceptional Image Quality with Vari-Focal Lens

With 3.6~16mm Vari-Focal lens, the ICA-HM316W meets various demands of installation. For instance, traffic monitoring either on more than two lanes or just focus on one specified lane, It brings an extremely clear and exquisite picture quality.



#### Advanced Event Management

To enhance surveillance flexibility and event management capabilities, the ICA-HM316W supports a number of advanced features including Auto-Iris to avoid over exposure, AV out to perform the two-way audio function and inputs/outputs to connect with external devices such as door sensors and relays to activate light or close doors.





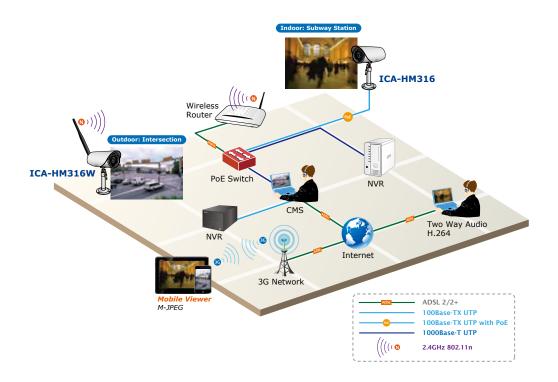
#### Flexible installation and Power functionality

The ICA-HM316W is ONVIF compliant and therefore interoperable with other manufacturer's products. It also includes 64-CH central management software for ease of maintenance and remote monitoring. The ICA-HM316W is indisputably the top choice for reliable and high performance outdoor surveillance. The IP66-rated housing protects the ICA-HM316W against rain and dust and ensures stable operation under extreme weather conditions. The ICA-HM316W is an ideal solution for both indoor and outdoor surveillance applications such as buildings, hospital, bank, hotel lobby, garages, hallway, stores and offices.



### Application

PLANET ICA-HM316W is providing various surveillance applications via wireless technology. It captures clear images and is perfect for identifying objects and persons.





# Specification

| Model                                    | ICA-HM316W  |
|--|---|
| Camera                                   |   |
| Image Device                             | 1/3.2" 2 Mega-Pixel progressive scan CMOS sensor  |
|  | Vari-Focal 3.6~16 mm, DC Auto-Iris  |
| Lens                                     | Mechanical IR Cut Filter  |
|  | Angle of view : horizontal: 20.8 ~ 75.4 Degree / vertical: 15.7 ~ 54.9 Degree                       |
| Min Illuminator                          | 0 lux @ F1.2  |
|  | IR LED*35, 850nm  |
| IR Illumination LED                      | Built-in IR illuminators, effective up to 25 meter  |
| Effective Pixels                         | 1600 x 1200 pixels  |
| Image                                    | · ·   |
| Video Encoder                            | H.264 / MPEG-4 / M-JPEG   |
|  | H.264: UXGA / 720P / SXGA / VGA / QVGA / QCIF   |
| Video Profile                            | M-JPEG: UXGA / 720P / SXGA / VGA / QVGA<br>MPEG-4: QCIF (Only for 3GPP)                             |
|  | UXGA Up to 15fps  |
| Frame Rate                               | SXGA Up to 22fps  |
|  | HD-720P / SVGA / VGA / QVGA / QCIF Up to 30fps  |
| Image Setting                            | Brightness, sharpness, contrast, AGC, Night Mode  |
| inage ocung                              | Text, time and date overlay   |
|  | Simultaneously multi-profile streaming  |
|  | M-JPEG streaming over HTTP  |
| Streaming                                | Supports 3GPP mobile surveillance   |
|  | Controllable frame rate and bandwidth   |
|  | Constant and variable bit rate (MPEG-4 / H.264)   |
| Audio                                    |   |
| Audio Streaming                          | 2-Way Audio   |
| Audio Encoder                            | RTSP: G.711   |
| Microphone                               | 3GPP: AMR External microphone input   |
| Audio Output                             | Phone Jack  |
| Network and Configuration                |   |
|  | IEEE 802.3 10Base-T   |
| Network Standard                         | IEEE 802.3u 100Base-TX  |
|  | IEEE 802.11b/g/n  |
| Antenna connector                        | 5dBi Dipole Antenna   |
| Frequency                                | 2.4GHz ~ 2.4835GHz  |
| RF Transmit Power                        | OFDM: 14 dBm  |
|  | CCK: 17 dBm   |
| Receiver Sensitivity                     | 802.11b:  |
|  | – 1M: -90 dBm   |
|  | – 11M: -85 dBm  |
|  | 802.11g:  |
|  | – 6M: -87 dBm<br>– 54M: -70 dBm   |
|  | 802.11n (BW20):   |
|  | – MCS0: -85 dBm   |
|  | – MCS7: -67 dBm   |
|  | 802.11n (BW40):   |
|  | - MCS0: -84 dBm   |
|  | – MCS7: -64 dBm   |
|  | IEEE 802.11b Standard Data Rates: 1, 2, 5.5 and 11Mbps  |
| Data Rate                                | IEEE 802.11g Standard Data Rates: 6, 9, 12, 18, 24, 36, 48, 54Mbps                                  |
|  | IEEE 802.11n Standard Data Rates: Legacy and High Throughput Modes, supports 20 / 40MHz Bandwidth   |
|  | MCS0~7 (150Mbps PHY Rate)   |
|  | IPv4, TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP     |
| Supported Protocols                      | IFV4, TCF, UDF, HTTF, SWITF, FTF, NTF, DNS, DDNS, DHCF, UFIIF, RTSF, RTF, RTCF, FFFUE, 3GFF, ICIVIF |
|  | Password protection, user access log  |
| Supported Protocols<br>Security<br>Users |   |



| System Integration                |   |
|-----------------------------------|---|
| Application Programming Interface | Fixed IP, DHCP, PPPoE   |
| Alarm Triggers                    | Intelligent video motion detection and external input<br>3-zone video motion detection                              |
| Alarm Events                      | File upload via FTP, email and SAMBA<br>External output activation<br>Configurable Pre/Post alarm buffering         |
| General                           |   |
| Power Supply                      | 12V DC, 1A  |
| Power Consumption                 | Max. 6.24W while IR LED ON<br>Max. 4.44W while IR LED OFF   |
| Housing                           | Weather-proof IP66-rated housing  |
| Operating Temperature             | -20 ~ 50 Degree C   |
| Operating Humidity                | 20 ~ 80% (non-condensing)   |
| Weight                            | 850g  |
| Dimension (Φ x L)                 | 83 x 180 mm   |
| Emission                          | CE, FCC   |
|                                   | 10/100Mbps Ethernet, RJ-45<br>DC power jack<br>Terminal block for 1 alarm input, 1 output and factory default reset |
| Connectors                        | External MIC input<br>Audio out<br>Composited video out (Max. resolution: D1 720 x 480 pixel)<br>RP-SMA Type        |

### **Ordering Information**

ICA-HM316W

2 Mega-Pixel 11n Outdoor IR IP Camera

### **Related Products**

| ICA-HM316  | 2 Mega-Pixel Outdoor IR PoE IP Camera    |
|------------|--|
| ICA-3250V  | Full HD Outdoor IR PoE 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-401    | 4-CH Network Video Recorder              |
| 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 |
| WL-SMA-0.6 | 0.6M RP-SMA(M) to N(M) Cable             |
| ANT-OM8    | 8dBi Omni Directional Antenna            |
| ANT-YG13   | 13dBi Yagi Directional Antenna           |

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