# 2 Mega-Pixel Wireless Cube IP Camera



PLANET announced the 2 Mega-Pixel Wireless Cube IP Camera, ICA-HM101W, to meet the demands from worldwide market. The ICA-HM101W delivers high quality image at maximum UXGA (1600 x 1200) resolutions with its built-in high performance 2Mega-Pixel CMOS sensor. Integrated the H.264 video compression technology, the ICA-HM101W can compress the video size to smaller one for users to transfer the Mega-Pixel image through Internet easily. The ICA-HM101W supports Multi-Profile and able to generate H.264 / MPEG-4 and M-JPEG streaming to different users at the same time. It allows up to 20 users to access the ICA-HM101W simultaneously. With this state-of-the-art design, the ICA-HM101W is considerable to fit in various network environments.

The ICA-HM101W brings the clearest vision at night by featuring 0.5 lux illumination and the 12 white-light LEDs built around the lens. It offers color pictures both in the daytime and nighttime with the built-in CMOS sensor supporting up to 10 meters. The ICA-HM101W also uses new High-Light LED to provide greater performance in the dark and longer life of LED.

Supporting Store-to-NAS function, the ICA-HM101W can work alone and save the video file to a NAS directly, which can save the PC resource and keep monitoring the environment with motion detection at 7/24. The ICA-HM101W integrates a passive infrared (PIR) sensor for detecting. It also offers 2-Way audio surveillance; therefore, the administrator can speak to anyone at ICA-HM101W remote site with a speaker connected. In addition, the ICA-HM101W adopts IEEE 802.11n wireless technology to communicate at maximum wireless signal rate and ensures secure transmission with WEP and WPA encryptions.

For multi-camera video surveillance applications, the ICA-HM101W can be managed by PLANET Cam Viewer 3, the professional management software to provide monitoring, recording and event management functions. The Cam Viewer 3 enables you to setup a comprehensive and effective surveillance system quickly and easily. With the ICA-HM101W managed by the Cam Viewer 3, it provides an enhanced professional security environment to protect your property and life.

## KEY FEATURES

### CAMERA

- 2 Mega-Pixel CMOS sensor built in
- 12 white-light LEDs support up to 10 meters visible distance at night
- 4.3mm Fixed Lens provides 56 degree horizontal / 43 degree vertical angle of view
- High Resolution Video Preview: UXGA (1600 x 1200) pixels
- Min Illumination: 0.5 lux @ F1.2
- Built-in PIR sensor (6m/120 degree coverage) for thermal / motion detection
- Intelligent motion detection up to 10 zones

### VIDEO

- Multi-Profile encoder supports H.264 / MPEG-4 and M-JPEG video compression simultaneously
- Supports both Variable Bit Rate and Variable Frame Rate
- 2M resolution or 720p mode selectable
- Up to 30fps for 1280 x 720 resolutions and up to 15fps for 1600 x 1200 resolutions
- Digital WDR to provide clear images even under back light circumstances
- 3D de-noise to improve picture quality at low lux

### AUDIO

- 2-Way audio with built-in microphone and speaker
- Sensor input and alarm output

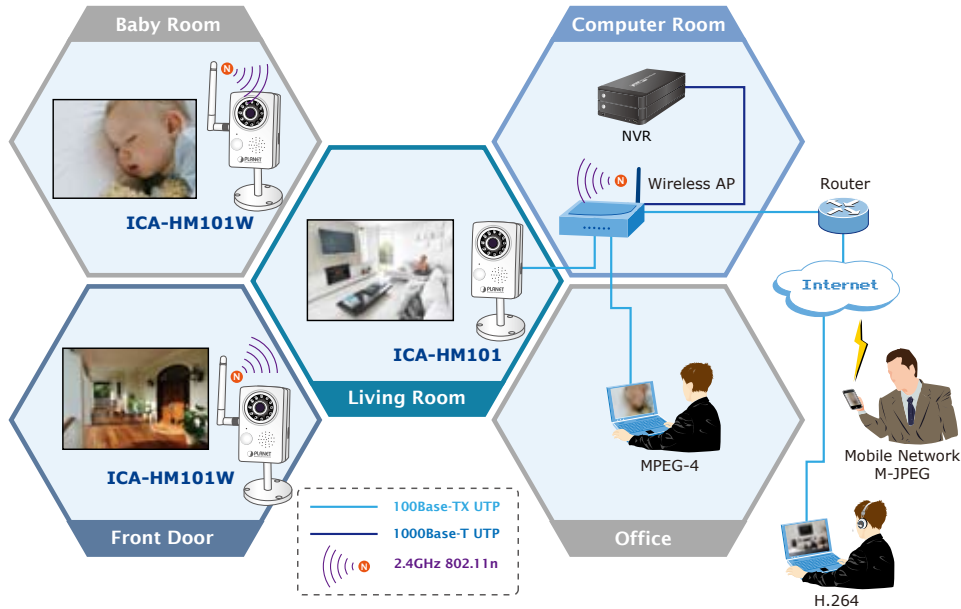### NETWORK AND CONFIGURATION

- Easy configuration and management via Windows-based utility or web interface
- IEEE 802.11n Wireless LAN Capability
- WEP / WPA / WPA2-PSK wireless security
- 20-profile encoder simultaneously
- UDP / TCP / HTTP / HTTPS protocols selectable
- Cam Viewer 3 Central management software supported

### SYSTEM INTEGRATION

- Store-to-NAS function enables video files saved without operating software
- DDNS, PPPoE and FTP uploading supports more alternatives in surveillance network
- SD Card supported for Local Video Recording
- ONVIF standard supported
- 3GPP for 3G mobile remote applications
- UPnP device discovery and NAT router transversal for easy installation

## APPLICATIONS

PLANET ICA-HM101W is a highly cost-effective network camera designed for home monitoring. It provides clear identification of objects and people, so it perfectly satisfies surveillance needs from all aspects such as front door, baby room, living room and etc.



## SPECIFICATION

| Product | 2 Mega-Pixel Wireless Cube IP Camera |
| --- | --- |
| Model | ICA-HM101W |
| Camera | |
| Image Sensor | 1/3" 2 Mega-Pixel CMOS image sensor |
| Lens | 4.3 mm, F1.8 |
| View Angle | H: 56 Degree<br>V: 43 Degree |
| Effective Pixels | 1600 x 1200 (UXGA) |
| Min Illumination | 0.5 lux @ F1.2 |
| Signal to Noise | 42 dB |
| LED | 12 x White-light LED |
| Indication LED | Green: LAN LED<br>Orange: Power / Wireless LED |
| PIR Sensor | Built-in 6m / 120 Degree Coverage |
| Motion Detection | 10 Area Definable |
| Video | |
| Video Encoder | H.264 / MPEG-4 / M-JPEG |
| Video Profile | 20 profiles simultaneously |
| Video Resolution | H.264  UXGA / VGA / QVGA / QQVGA<br>MPEG4 VGA / QVGA / QQVGA<br>M-JPEG UXGA / VGA / QVGA / QQVGA |
| Rate Control | CBR (Constant Bit Rate) / VBR (Variable Bit Rate) |
| Frame Rate | Mega-Pixel mode up to 15fps for all resolution<br>VGA mode up to 30fps for VGA / QVGA / QQVGA |
| Image Setting | AE, AWB<br>3D Noise Reduction<br>Digital WDR<br>Color, Brightness, Sharpness, Contrast, Hue<br>Mirror / Flip<br>Privacy Masks<br>Text, Time and Date Overlay |

| | |
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| **Streaming** | Simultaneous Multi-Profile Streaming<br>Streaming over UDP, TCP, or HTTP<br>M-JPEG Streaming over HTTP (Server Push)<br>Supports 3GPP Mobile Surveillance (MPEG4)<br>Controllable Frame Rate and Bandwidth<br>Constant and Variable Bit Rate (MPEG4 / H.264)<br>ROI |
| **Audio** | |
| **Audio Codec** | RTSP: G.711 64kbps, G.726 32kbps<br>3GPP: AMR |
| **Audio Streaming** | One-Way or 2-Way |
| **Audio I/O** | Audio in: Internal Microphone and Speaker<br>Audio out: Line |
| **Network and Configuration** | |
| **Network Interface** | 10/100M Auto Negotiation |
| **Network Standard** | IEEE 802.3<br>IEEE 802.3u<br>IEEE 802.11 b/g/n |
| **Antenna connector** | 1x2 dBi (Max) Dual detachable diversity antenna |
| **Frequency** | 2.4GHz |
| **RF Transmit Power** | OFDM: 14 dBm<br>CCK: 17 dBm |
| **Receiver Sensitivity** | 802.11b(11Mbps):CCK@8% PER = -88dBm<br>802.11g(54Mbps):OFDM @ 10% PER = -72dBm<br>802.11n Draft 6.0:HT20 @ 10% PER = -66 dBm<br>                          HT40 @ 10% PER= -61dBm |
| **Data Rate** | 11b: 1, 2, 5.5, 11Mbps<br>11g: 6, 9, 12, 24, 36, 48, 54Mbps<br>11n (20MHz) : up to 72Mbps<br>11n (40MHz) : up to 150Mbps |
| **Security** | WEP and WPA Encryption |
| **Network Protocol** | TCP/IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, DIPS<br>ARP, Bonjour, UPnP, RTSP, RTP, RTCP, IGMP, PPPoE, 3GPP, ICMP, Samba |
| **Browser / Software** | Microsoft ® Internet Explorer 6.0 or later, PLANET Cam Viewer 3 Lite / Pro (CV3L . CV3P) |
| **Users** | 20 Simultaneous Unicast Users |
| **Connection type** | Static IP, DHCP |
| **Management** | Web, CV3P, CV3L |
| **System Integration** | |
| **SDK** | Open API for Software Integration<br>ONVIF |
| **Alarm Triggers** | Intelligent Video Motion Detection<br>External Input<br>PIR Detector (Human Detect) |
| **Alarm Events** | File Upload via FTP, Samba, SD Card or Email<br>Notification via Email, HTTP, and TCP<br>External Output Activation<br>Audio Alerting Output |
| **Video Buffer** | Pre and Post Alarm Buffering |
| **Environment** | |
| **Power Requirement** | 12V DC, 1A |
| **Dimension (W x D x H)** | 61 x 39 x 91 mm |
| **Weight** | 150g |
| **Power Consumption** | 7W (12VDC) |
| **Operating Temperature** | -10 ~ 40 Degree C |
| **Operating Humidity** | 20 ~ 80% (non-condensing) |
| **Emission** | CE, FCC |

**Data Sheet**

## ORDERING INFORMATION

| ICA-HM101W | 2 Mega-Pixel Wireless Cube IP Camera |
|---|---|

## RELATED PRODUCTS

| CV3P-4/8/16/36/64 | 4/8/16/36/64-Channel Cam Viewer 3 Professional |
|---|---|
| CV3-M1024 | 1024-Channel Central Management Software |
| ICA-HM101 | 2 Mega-Pixel PoE Cube IP Camera |
| NVR-401 | 4-CH Network Video Recorder |
| NVR-810 | 8-CH Network Video Recorder |
| NVR-1610 | 16-CH Network Video Recorder |
| NVR-3210 | 32-CH Network Video Recorder |
| WNAP-C3220 | 802.11n Wireless Ceiling Mount Access Point |
| WNRT-617 | 150Mbps 802.11n Wireless Broadband Router |