2 Mega-pixel Wireless Fish-Eye IP Camera

Camera
- Fish-Eye Lens to bring 360° / 180° panoramic wide angle view
- 1/3" 2 mega-pixel progressive scan CMOS sensor
- Unique Fish-Eye hardware correction technology
- 3.0 lux Minimum Illumination at F2.0
- 9 different video modes including digital PTZ function
- Maximum resolution at 1600 x 1200
- Removable IR-cut Filter for Day & Night Function

Video / Audio
- H.264 and M-JPEG video compression simultaneously
- Simultaneous multi-stream support
- Up to 15fps for 1600 x 1200 resolutions
- 2-way audio support with enhanced audio quality

Network and Configuration
- IEEE 802.11b/g/n wireless LAN with WEP and WPA encryptions
- Auto MDI/MDI-X supported
- UPnP® support for network setup and configuration
- RTSP / UPnP / 3GPP / HTTPS protocols selectable

Easy Installation & Management
- Advanced e-PTZ, including preset point
- 10 motion detection areas / E-mail and FTP alert
- Micro SD card local video recording supported
- Digital Input/Output for integration with sensors and alarms
- Cam Viewer 3 Central Management Software supported

Compact Wireless Panoramic Camera for Exceptional Surveillance

PLANET ICA-HM830W 2 mega-pixel Wireless Fish-Eye IP Camera supports H.264 and M-JPEG compression formats and delivers excellent picture quality in up to 1600 x 1200 pixels at 15 frames per second (fps). Incorporating the professional 2 MP-resolution sensor, the ICA-HM830W provides high quality images and panorama function with quad view to enable images of monitoring and recording from four different angles to be displayed simultaneously. It offers a 180° panoramic view by wall mount installation or a 360° surround view in deployment of ceiling / table mount. Therefore, users do not need to install multiple IP cameras and hence save tremendous installation and maintenance costs. Moreover, the unique design makes it the ideal solution to surveillance applications in boutiques, stores, restaurants and more.

Complete Monitoring with 360° Surround View

Furthermore, the ICA-HM830W is a Fish-Eye camera that allows you to monitor all angles of a location using just one camera and thus save lots of traditional mechanical Pan/Tilt maintenance cost. The distorted hemispherical image of the Fish-Eye camera will be converted into the conventional rectilinear projection. Without installing any software, you can watch live view and utilize functions such as motion detection and camera tampering through the Web interface using an IE browser. It also provides distortion correction function to fix the camera video so you can use e-PTZ to zoom in and zoom out the image, and pan across the camera's video to survey a large area easily.

Day & Night Functionality

The ICA-HM830W features an automatic, removable infrared-cut filter, which enables the camera to provide color video when there is sufficient light, and black/white video in dark conditions. The ICA-HM830W is able to maintain clear images 24 hours a day.

Advanced Event Management

The ICA-HM830W provides surveillance functions including DI/DO alarm, Micro SD card support for local storage, and 2-way audio that enables audio communication between local and remote ICA-HM830W sites by connecting the external microphone and speaker. It can also be applied in video conferencing via its 2-way audio features.
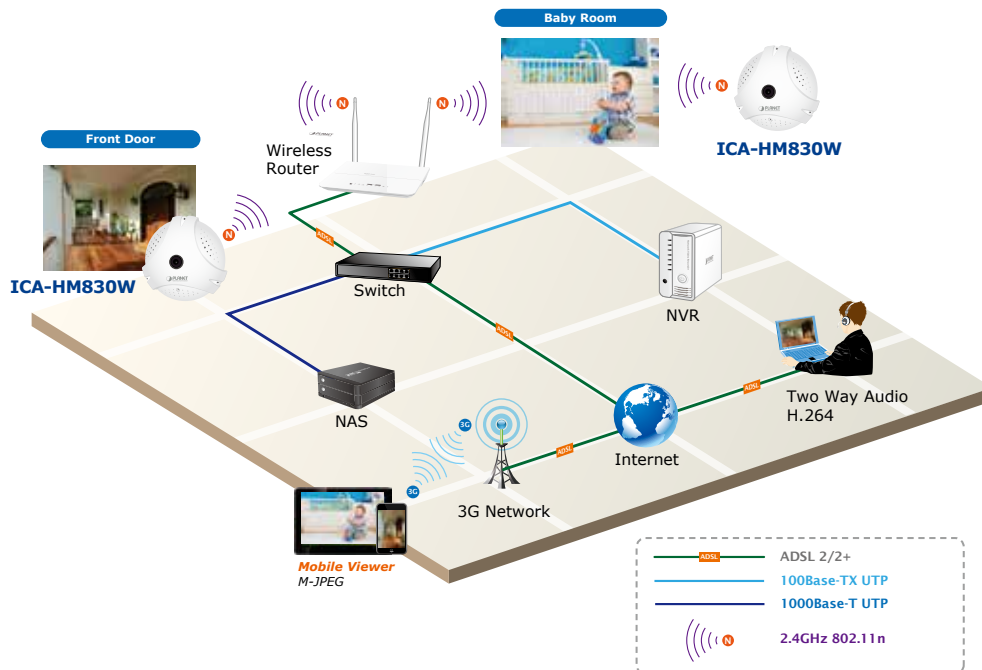
Two-way Audio

High Quality Streaming via 11n Wireless Connectivity

The ICA-HM830W adopts IEEE 802.11n wireless technology to communicate at maximum 150Mbps and ensures secure transmission with WEP and WPA encryptions. It allows you to stream high quality video to remote sites and mobile devices. A Site Survey feature also allows you to view and connect to nearby wireless networks with ease. The ICA-HM830W also includes 64-CH central management software for ease of maintenance and remote monitoring. The ICA-HM830W is indisputably the top choice for reliable and high performance surveillance.

Applications

PLANET ICA-HM830W provides various surveillance applications to deliver 360° panoramic clear images. It can offer identification of objects and people, perfect for surveillance needs from all aspects such as POS / Cashier of a shop, the mall, lobby, public areas, etc.

- 360° source image (1O)
- 360° table view (1O table)
- 180° double broad view (2P)
- 180° double table broad view (2P table)
- 360° source view with 3 PTZ (1O3R)
- Quad view (4R)
- 360° broad view with 2 PTZ (1O2R)
- 180° source view with 3 PTZ (1P3R)
- 180° broad view with 2 PTZ (1P2R)

Ceiling Mode

360⁰ source image

180⁰ double broad view

360⁰ source view with 3 PTZ

Quad view

360⁰ broad view with 2 PTZ

Wall Mode

180⁰ source view with 3 PTZ

180⁰ broad view with 2 PTZ

Table Mode

360°Table view

180° double table broad view

Specifications

Model	ICA-HM830W 2 Mega-pixel Wireless Fish-Eye IP Camera
Camera	
Image Device	1/3" 2 mega-pixel progressive scan CMOS image sensor
Lens	FOV=185°(D/H/V), F=2.0, f=1.25mm Mechanical IR-cut Filter Angle of view : 360 degrees view angle
Min Illumination	3.0 lux @ F2.0
Effective Pixels	1600 x 1200 pixels (4:3)
Video	
Video Encoder	H.264 / M-JPEG
Video Resolution	**UXGA mode** H.264: 1600 x 1200 / 800 x 600 / 640 x 480 M-JPEG: 800 x 600 / 640 x 480 **720P mode** H.264: 1280 x 720 / 800 x 450 / 720 x 405 / 640 x 360 M-JPEG: 1280 x 720 / 800 x 450 / 720 x 405 / 640 x 36
Frame Rate	Up to 15fps for UXGA resolutions
Image Setting	Brightness, Hue, Saturation, Contrast, Sharpness, Exposure, White Balance Control, Text, Time and Date Overlay
Streaming	Streaming over UDP, TCP, or HTTP M-JPEG streaming over HTTP (server push) Controllable frame rate and bandwidth Constant and variable bit rate (M-JPEG / H.264)
Rate Control	CBR (Constant Bit Rate) VBR (Variable Bit Rate)
UI Layout	Quad view (4R) 360° source image (1O) 360° table view (1O table) 180° double broad view (2P) 180° double table broad view (2P table) 360° source view with 3 PTZ (1O3R) 360° broad view with 2 PTZ (1O2R) 180° source view with 3 PTZ (1P3R) 180° broad view with 2 PTZ (1P2R)
Audio	
Audio Streaming	2-way Audio
Audio Compression	RTSP: G.711 64kbps
Microphone	Built-in Microphone
Speaker	Built-in Speaker
Network and Configuration	
Network Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.11b/g/n
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, UDP, SMTP, FTP, DHCP, DDNS, NTP, DNS, ARP, RTSP, RTP, Bonjour, UPnP, Samba
Antenna Connector	1x2db Dipole Antenna
Frequency	2.4GHz
RF Transmission Power	OFDM: 13dBm CCK: 17dBm
Output Power	11n: 12dBm (default) +/- 1dBm 11g: 14dBm (default) +/- 1dBm 11b: 17dBm (default) +/- 1dBm
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: up to 150Mbps
Security	Password Protection, Https Encryption, User Accesslog
Users	Depending on streaming data rate used

System Integration	
Application Programming Interface	Open API for software integration
Alarm Triggers	Intelligent video motion detection
Alarm Events	File upload via FTP, E-mail or Micro SD card Notification via E-mail
Environment	
Power Requirements	12V DC, 2A
Power Consumption	5W (12VDC)
Operating Temperature	0 ~ 50 degrees C
Operating Humidity	20 ~ 80% (non-condensing)
Weight	365g
Dimensions (Φ x H)	180 x 55 mm
Emission	CE, FCC
Connectors	10/100 Mbps Ethernet, RJ-45 DC power jack Terminal block for 1 alarm input and 1 output Audio in Audio out Micro SD/SDHC card (Max 32GB, Class 6) Factory default reset button

Ordering Information

ICA-HM830W	2 Mega-pixel Wireless Fish-Eye IP Camera

Related Products

ICA-HM101	2 Mega-pixel PoE Cube IP Camera
ICA-HM101W	2 Mega-pixel Wireless Cube IP Camera
ICA-1200	Full HD PoE Cube IP Camera
ICA-1200W	Full HD Wireless Cube IP Camera
ICA-8350	3 Mega-pixel Vandalproof Fish-Eye 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

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