

Product Specification

2 Mega-Pixel PoE Plus Speed Dome Internet Camera

ICA-HM620

Release 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2012/05/08	Brandon Wang	Initial release

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Reviewed by:	Jonas	Approved by:	Tom



1. PRODUCT DESCRIPTION

The PLANET ICA-HM620 is the outdoor speed dome Internet camera offering the offering Full HD 1080p resolution with superb image quality. The ICA-HM620 features a 20x8 zooming (20x optical zoom, 8x digital zoom) with auto focus and auto iris

It offers fast, accurate and continuous 360 panning operations. The unparalleled surveillance functions of the ICA-HM620 including 256 camera presets, 8 camera cruise configurations, and the motion detection function make it able to satisfy the demanding surveillance and remote monitoring applications.

The ICA-HM620 provides Multi-profile function which can generate H.264 and M-JPEG video streaming simultaneously . and offers extra smooth video quality with resolution up to 60 fps @ 720p and 30 fps @ 1080p. Boasting WDR technology, the ICA-HM620 can also cope with challenging lighting conditions and generate image quality close to the capabilities of a human eye. Moreover, the resolution can be different from one user to another. It is a perfect and effective surveillance solution for the bandwidth limited networks.

The ICA-HM620 supports **removable IR-cut filter**, maintaining clear images 24 hours a day. It takes surveillance using 2-Way audio so that the administrator can speak to anyone at ICA-HM620 remote site with a speaker connected. The ICA-HM620 can also be installed in most of bad outdoor environment and keep working properly with the IP-66 protecting cover. With other advanced features such as **Micro SD/SDHC** card slot, **802.3at compliant PoE Plus** and Full HD high quality video.

This state-of-the-art design is considerable to fit in various network environments like traffic centers, shopping malls, railway stations, warehouses, airports, and production facilities for the most demanding outdoor surveillance applications.

2. PRODUCT FEATURES

Camera

2.8" Sony Progressive Scan CMOS sensor built-in
20 x 8 zooming (20X optical, 8X digital) adjustment
Auto White Balance
Auto Electronic Shutter Time(1/30 ~ 1/10k sec)
Automatic gain control (AGC) for image-intensified

Video & Audio

Multi-profile encoder supports H.264 and M-JPEG video compression simultaneously

High resolution quality pictures for day and night surveillance

Up to 30fps for 1080P resolution and up to 60fps for 720P resolutions

D1 / CIF Real-time resolutions (30fps)

2D/3D de-interlaced video image

Image Enhancement with Wide Dynamic Range (WDR) / IR Cut Filter (ICR)

2-Way audio with built-in microphone input and linear audio output

Motion Detection feature can monitor any suspicious movement in specific area



Network and Configuration

IPv4/v6 and UDP / TCP / HTTP / HTTPS protocols selectable DDNS and FTP uploading supports more alternatives in surveillance network 3GPP for 3G mobile remote applications Cam Viewer Three - Central management software supported Easy configuration and management via Windows-based utility or web interface

Operation

Built-in 802.3at Compliant PoE Plus
360 degree continuous PAN, Tilt (-10 ~ 190 degree)
Preset speed can get 5~400 / sec, and manual speed 0.5 ~ 90 Degree / sec
256 presets, tour is based on presets, speed & park time of presets can be set
Cruise line: 8 groups programmable lines, each cruise with 32 presets

Environment

4 alarm in and 2 alarm out, and support alarm trigger.IP-66 outdoor classification with heater and fan for rigorous environmentFan and heater both belong to full-automatic intelligent control



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3. PRODUCT SPECIFICATION

3.1 COMPOMENT SPECIFICATIONS

CPU: ARM11

RAM: 2GB

Flash: 1GB

LAN: 10/100Base-TX Ethernet

Sound Chipset: Stand-alone chipset

3.2 FUNCTIONAL SPECIFICATIONS

Product	ICA-HM620	
Camera		
Image Sensor	2.8" Sony Progressive Scan CMOS Sensor	
Lens	f =4.7~84.6mm / F=1.6	
Min Illumination	0.04 Lux (B/W) / 0.3 Lux (color)	
Optical Zoom	20X	
Digital Zoom	1~8x variable	
Focal Length	4.7~94 mm	
Focus Mode	Auto / Manual	
View Angle	H: 5.2 ~ 55.2 Degree V: 2.4 ~ 42.1 Degree	
White Balance	Auto/ Indoor/ Outdoor/ ATW	
Iris Control	Auto / Manual	
Electronic Shutter	1/30 ~ 1/10k sec	
AGC control Auto / Manual		
Back Light	On / Off	
Video		
Compression	H.264 Main Profile/ MJPEG	
Streaming	Multiple Streams, H.264 + MJPEG/ H.264 + H.264	
Resolution	1080P/ 720P/ VGA/ D1	
Frame Rate	30/25 fps @ 1080P / 60/50 fps @ 720P	
Motion Detection	On / Off	
Wide Dynamic Range	On / Off	
Audio		
Compression	G711/ G.726 ADPCM/AAC	
Streaming	Тwo-way	
Noise Reduction 2D / 3D	On / Off	
Network and Confi	guration	



Interface	10/100Mbps Ethernet (RJ-45)	
Protocol	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, IEEE 802.1x, ONVIF	
Supported Web Browser	Internet Explorer (6.0+), Chrome, Firefox, Safari	
Management	Web, CV3P, CV3L	
Operation		
Pan Degree	0 ~ 360 Degree continuous panning	
Tilt Degree	-10 ~ 190 Degree	
Manual Speed	0.5 ~ 90 Degree / s	
Preset Point	256	
Preset Accuracy	0.225 Degree	
Preset Speed	5~400 Degree / s	
Sequence	8	
Auto Pan	4	
Camera Cruise	8	
Privacy Mask	16	
Proportional Pan & Tilt	On/Off (Pan and tilt speed proportional to zoom ratio)	
Resume after Power loss	Yes	
Zone Title	16	
Home Function	Preset, Sequence, Auto pan, Cruise	
Auto Flip	Digital / Mechanical / Off	
Digital Slow Shutter	r On / Off	
Environment		
Audio in / Audio out	1 x MIC in / 1 x Line out	
Video Output	1.0 Vp-p / 75ohm (BNC connector)	
2-Way Audio	Full-duplex, Half-duplex, Simplex	
DI / DO ports	DI x 4 / DO x 2 (dry contact)	
Protection Class	IP-66 outdoor classification, Built-in Fan and Heater	
Dimension	Φ191.97 x 282.11 mm	
Weight	2.32 kg	
Power Supply	AC 24V ± 10% (system & heater) IEEE 802.3at (system)	
Operating Temperature	-45 ~ 50 Degree C (-49 ~ 122 Degree F)	
Operating Humidity	10 ~ 90% (non-condensing)	
IP Grade	IP-66	
Power Consumption	30 W (without Heater) 65 W (with Heater)	
Emission	CE, FCC	



3.3 PHYSICAL SPECIFICATION

Dimension

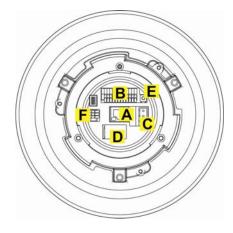
Φ192 x 282 mm (W x D x H)

Weight

2.32kg



Switch Identification





Α	RJ-45 Connector
в	ALARM I/O
С	Power
D	Micro SD Card Slot
E	Factory Reset Button
F	Audio I/O

Power & Audio Connector Definition

Power Connector

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1	Pin	Definition
2	1	AC 24_1
2	2	FG
3	3	AC 24_2

	3
	2

Audio Connector

Pin	Definition
1	LINE_OUT
2	GND
3	LINE_IN

Alarm I/O Connector Definition

	1										1	2
	b	h	b	h	b	b	h	b	b	h	b	5
Н	Ň	Ĭ	ň	ň	ň	ň	ň	ň	ň	ň	ň	7

Pin	Definition
1	ALARM_OUT_NO_1
2	ALARM_OUT_NC_1
3	ALARM_OUT_COM_1
4	GND
5	ALARM_OUT_NO_2
6	ALARM OUT NC 2

Pin	Definition
7	ALARM_OUT_COM_2
8	GND
9	ALARM_IN_4
10	ALARM_IN_3
11	ALARM_IN_2
12	ALARM_IN_1



3.4 ENVIRONMENTAL SPECIFICATION

Operating Temperature

Outside:

-45 ~ 50 degree C

Enclosure Inside:

Heater & Fan on:

Fan: Operate all the time

Heater: -7 degree C on / 3 degree C off

Operating Humidity

10 ~ 90% (non-condensing)

3.5 REGULATORY COMPLIANCE

FCC, CE

3.6 BASIC PACKAGING

Speed Dome Camera Unit x 1

User's Manual CD-ROM x 1

Quick Installation Guide x 1

Terminal block x 1

Optical Cover x 1

M3/M5 Standard Screw x 4

Water proof rubber x 1

Lubricant x1

Outdoor mount kit x 1

Security Torx x 1

Mini-pendant x 1

110/220 AC Power Adapter