PLANET
Networking & Communication

Product Specification

H.264 36x Outdoor Speed Dome IP Camera

ICA-H652

Version 1.1

Change History:

Revision	Date	Author	Change List
Version 1.0	2010/06/23	Brian	Initial release
Version 1.1	2010/9/27	Jonas	Version 1.0

Author	Brian	Editor:	Jonas
Reviewed by:	Tom	Approved by:	Tom

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1. PRODUCT DESCRIPTION

The PLANET ICA-H652, H.264 outdoor speed dome Internet camera, offers the next generation video compression – H.264. It is the most effective solution on the bandwidth limited networks, like Internet transmission. The ICA-H652 features a 36*12 zooming (36x optical zoom, 12x digital zoom), auto focus, auto iris. Fast, accurate and continuous 360 panning operations. Plus the 128 presets, 16 camera tour configurations, and combining the motion detection, these unparalleled surveillance functions of the ICA-H652 are able to satisfy the demanding surveillance and remote monitoring applications.

Multi-profile stands for video stream simultaneously. The ICA-H652 video encoder supports real-time Main Profile H.264 D1 resolution which compresses the image size up to 40% off. Simultaneous dual streams, H.264/H.264 and H.264/MJPEG, are available for various network applications via speeding or limited bandwidth. Better image quality and high resolution are delivered by IP support. Additionally, 3D de-interlaced technology provides superior image quality. It eliminates the "combing" effect due to scene change and performs more stabilized image.

The ICA-H652 is perfect for every surveillance environment with these benefits whenever working at traffic centers, shopping malls, railway stations, warehouses, airports, and production facilities.

2. PRODUCT FEATURES

- Multi-profile encoder supports H.264/H.264 and H.264/MJPEG video compression simultaneously and 30fps for all resolution

- Supports 360 degree continuous PAN, Tilt (0°~180°) and 36x12 zooming (36X optical, 12X digital) adjustment

- 3D de-interlaced video image

- I-Phone viewer support

- Two-way audio support

- 12x Digital Zoom

- D1 Real-time Resolution

- Because of supporting TCP/IP networking, SMTP e-mail and HTTP public network standards, ICA-H652 can be applied and utilized to a mixed IP network environment

- Easy configuration: Network administrators can configure and manage ICA-H652 via Windows-based utility or web interface

- DDNS, PPPoE and FTP uploading supports more alternatives in surveillance network

- Motion Detection: the motion detection feature can monitor any suspicious movement in specific area

- Removable IR Cut Filter

- Wide Dynamic Range (WDR)

- 2D/3D Noise Reduction

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3. PRODUCT SPECIFICATION

3.1 COMPOMENT SPECIFICATIONS

CPU: ARM9

RAM: 1GB

Flash: 1GB

LAN: 10/100Base-T Ethernet

Sound Chipset: Embedded in DSP

3.2 FUNCTIONAL SPECIFICATIONS

Product	ICA-H652
Video Specification	
Horizontal Resolution	540 TV Lines
Scanning System	NTSC / PAL
Effective Pixels	NTSC 380K: 768 (H) x 494 (V) PAL 440K: 752 (H) x 582 (V)
Sensor	1/4" Color Sony CCD
Lens Type	36X optical zoom, 12X digital zoom
View Angle	H: 1.7 ~ 55 Degree / V: 1.3 ~ 43 Degree
Lens	F1.6~3.4/ F1.6 ~ 122.4 mm
S/N Ratio	> 50 dB (AGC Off)
Minimum Illumination	0.1 lux , 0.01lux(B/W)
Focal Length	3.4~122.4 mm
Focus Mode	Auto / Manual
White Balance	Auto / Manual
Iris Control	Auto / Manual
Electronic Shutter	1/1~1/10k sec.
AGC control	Auto / Manual
Back Light Compensation	On/Off
Image (Video Setting)	
Video Encoder	H.264 / M-JPEG simultaneously

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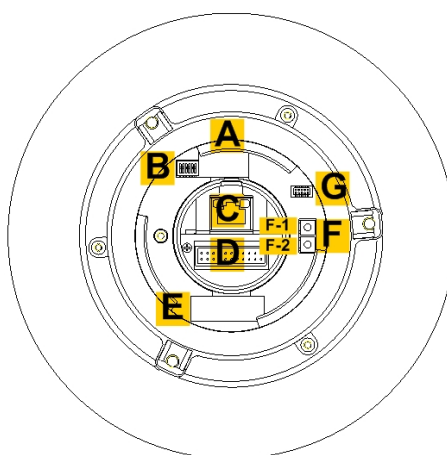| Video Resolution	D1: NTSC 720x480/ PAL 720x576 CIF: NTSC 352x240 / 352x288
Frame Rate	30fps for all resolutions
Audio Compression	G.726 ADPCM / AAC
Alarm Reaction	Preset, Sequence, Auto pan, Cruise
Network and Configuration	
Network Interface	Ethernet 10Base-T/100Base-TX
Networking Protocol	TCP/UDP/IP, HTTP, FTP, SMTP, ARP, ICMP, DHCP, Telnet, RTP/RTSP
Browser / Software	Microsoft ® Internet Explorer 6.0 or later, Cam Viewer Plus Lite/Pro
Hardware	
Pan Degree	0 ~ 360 degree continuous panning
Tilt Degree	90 degree with instant flip
Preset Point	256 present points
Camera Cruise	8 cruises
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 1 (dry contact)
Protection Class	IP-66 outdoor classification, Built-in Fan and Heater
Dimension (mm)	Φ190 x 302.5
Weight	2.6kg
Power Supply	AC 24V ± 10%, 3A
Operating Temperature	-45 ~ 50 Degree C
Operating Humidity	20 – 90% (non- condensing)
Power Consumption	65 W (with Heater)
Emission	CE, FCC

3.3 PHYSICAL SPECIFICATION
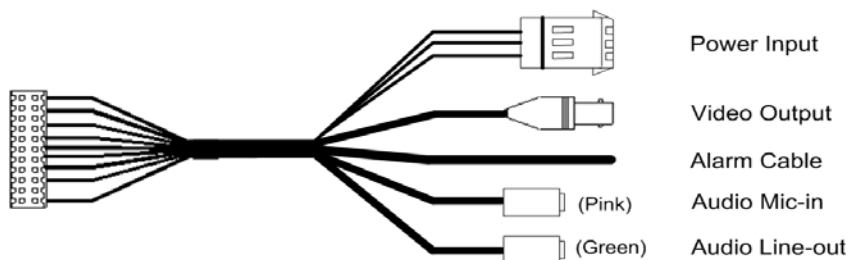
Dimension
Φ190 x 302.5 mm (W x D x H)

Weight

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2.6kg

Switch Identification

A	None
B	Communication Switch (Reserved)
C	RJ45 Connector
D	22-Pin Connector
E	None
F	F-1	Reboot Button
	F-2	Factory Reset Button
G	ISP Connector (for FW upgrade)

AC 24V Data Cable connection

Connector definition

Pin	Definition	Cable
1	AC 24-1/DC (＋)	20AWG/18AWG
2	ALM NC	
3	AC 24-2/DC (－)	20AWG/18AWG
4	ALM NO	
5	FG	20AWG18AWG
6	ALM COM	
7	Audio in	24AWG
8	Audio out	
9	Audio GND	
10	Audio GND	
11	ISOG	

Pin	Definition	Cable
12	ALM-1	
13	ALM-3	
14	ALM-2	
15	ALM-4	
16	Reserved	
17	Reserved	
18	Reserved	
19	Reserved	
20	ALM GND	
21	VGND	20AWG
22	Video	

3.3 ENVIRONMENTAL SPECIFICATION

Operating Temperature

Outside:

-45 ~ 50 degree C

Inside:

Heater & Fan on:

Fan: Operate all the time

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

Operating Humidity

20 ~ 90% (non-condensing)

3.4 REGULATORY COMPLIANCE

FCC, CE, PCT

3.5 BASIC PACKAGING

Speed Dome Camera Unit x 1

Wall Mount Kit x 1

Data Cable x1

Waterproof Rubber x1

Optical Cover x 1

M3 Standard Screw x1

M3 Security Screw x1

M5 Standard Screw x1

M5 Security Screw x1

Lubricant x1

Security Tool x1

User's Manual CD-ROM x 1

Quick Installation Guide x 1