

Product Specifications

Ultra-mini HD SIP PoE IP Camera

ICA-4130S

Release 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2014/3/31	Simon Yeh	Initial release

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1. PRODUCT DESCRIPTION



Compact Design yet HD surveillance

PLANET ICA-4130S Ultra-mini IP Camera with PoE is designed for easy installation with versatile functions. The camera features a megapixel sensor and supports H.264, MPEG-4, and M-JPEG compression formats to deliver excellent picture quality for different applications. Integrated with SIP/VoIP protocol, the ICA-4130S provides more aggressive and efficient solution to dealing with event triggers via video phone. It is perfect for remote and discreet monitoring of indoor areas such as homes, small businesses, boutiques, restaurants, hotels, residences, etc.

Day & Night Functionality

The ICA-4130S brings the clearest vision at night by featuring 0.5 lux illumination and day/night mode switching. It offers color, black and white pictures both in the daytime and nighttime with the built-in CMOS sensor supporting up to 5~10 meters. The ICA-4130S also provides exposure settings like exposure level, and exposure time for more flexible adjustment.

Exceptional Image Quality

Together with powerful image processing attributes like Back Light Compensation (BLC) and 3D Digital Noise Reduction (3DNR) technology, the ICA-4130S is able to adjust the exposure of the entire image to properly expose the subject in the foreground and remove noises from video signal. Thus, it brings an extremely clear and exquisite picture quality even under any challenging lighting conditions.

EPTZ

The E-PTZ function enables users to capture the full image in the record while doing PTZ digitally on live view. With E-PTZ, manipulating the view is instantaneous. The camera has done its job after capturing one image. Users can zoom and move about the webcam image with no delay. Meanwhile, there is never a queue since the camera does not need to move comparing with PTZ camera.

Advanced Event Management

The ICA-4130S features industry-led SIP/VoIP for audio, alarm, intercom and video streaming to mobile phones and video phones. When the event is triggered, the administrator can receive alarm, video and even audio via video phones. Besides, administrator is able to view status of remote site via video phone aggressively at any time. With this function, the ICA-4130S provides more instant, efficient response method to deal with events or prevent events from happening, when compared with other even actions (FTP, Email, SD Card, etc.).

Flexible Installation and Power Functionality

The ICA-4130S incorporates IEEE 802.3af Power over Ethernet standard and able to be powered via the network cable from a PoE power sourcing equipment such as PoE Switch and PoE injector. It thus eliminates the need for extra power cables and reduces installation costs while increases the deployment flexibility. The ICA-4130S is ONVIF compliant and interoperable with other brands in the market. Moreover, the camera features 3-axis mechanical design for fast and easy adjustment of the camera's viewing angle, allowing you to precisely position the camera. The ICA-4130S is indisputably the ideal choice for reliable and high performance surveillance.

2. PRODUCT FEATURES

➤ **Camera**

- SIP 2.0 (RFC3261) compliant
- 1/2.5" Progressive CMOS
- 3.6mm Fixed Lens provides 96 degrees horizontal / 72 degrees vertical angle of view
- 0.5 lux minimum illumination at F1.2
- Maximum resolution of 1280 x 960

➤ **Video / Audio**

- H.264 / MPEG-4 and M-JPEG video compression simultaneously
- Simultaneous multi-stream support
- H.264 high profile, main profile and baseline
- Max. resolution of 1280 x 960 at 30fps
- 3DNR to improve picture quality at low lux
- Supports e-PTZ advanced function
- Built-in microphone

➤ **Network and Configuration**

- Compliant with IEEE 802.3af PoE
- RTSP / UPnP / HTTPS protocols selectable

➤ **Easy Installation & Management**

- 3-axis mechanical design
- ONVIF/PSIA compliant for interoperability
- Motion detection, privacy mask and image snapping
- Intelligent motion / audio / network disconnect / tamper detection alarm triggers
- Watermark prevent video from tampering
- Micro SD/SDHC card local video recording supported
- Easy configuration and management via Windows-based utility or web interface

3. PRODUCT SPECIFICATIONS

3.1 COMPONENTS

CPU	TI TMS320DM365ZCE
RAM	128MB
Flash	128MB

3. 2 FUNCTIONAL SPECIFICATIONS

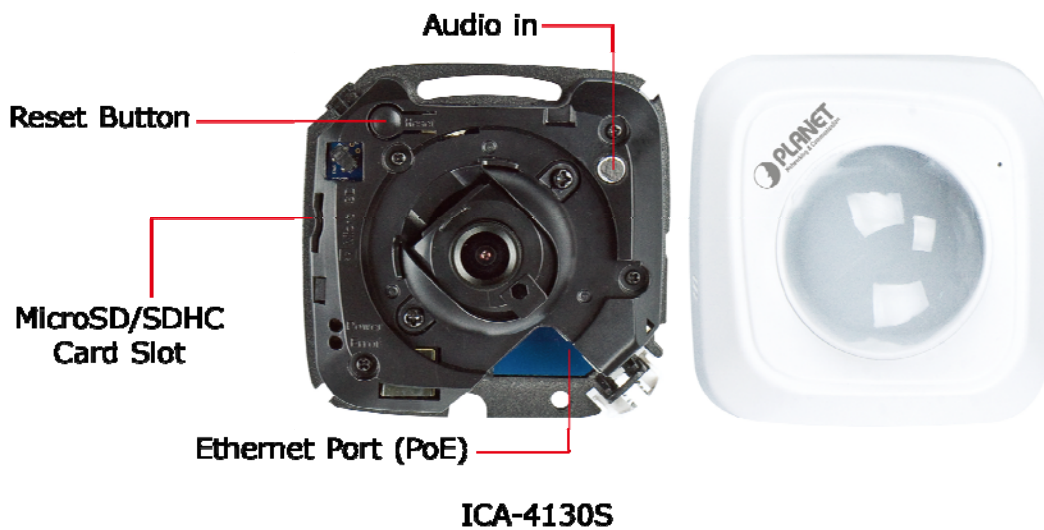
Product	ICA-4130S
Camera	
Image device	1/2.5" 1.3 mega-pixel CMOS image sensor
Lens	Fixed lens 3.6 mm, F1.2 Angle of view : horizontal: 96 degrees / vertical: 72 degrees
Min Illumination	Color: 0.5 lux @ F1.2, B/W: 0.2 lux@F1.2
Electronic Shutter	Auto, 1/100000s~1/5s
Effective Pixels	1280 x 960 pixels
Video	
Video Encoder	H.264 / MPEG-4 / M-JPEG
Video Resolution	H.264: 1280 x 960 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 368 / 320 x 240 / 320 x 192 MPEG-4: 640 x 480 / 640 x 368 / 320 x 240 / 320 x 192 M-JPEG: 640 x 480 / 640 x 368 / 320 x 240 / 320 x 192
Frame Rate	30fps (1280 × 960), 30fps (1280 × 720), 30fps (704 × 576)
Video Bit Rate	64kbps ~8Mbps (CBR / VBR adjustable)
Image Setting	Brightness/Contrast /Saturation
Streaming	Simultaneous multi-profile streaming Streaming over UDP, TCP, or HTTP Controllable frame rate and bit rate Constant and variable bit rate (MPEG4 / H.264) I-frame Interval
Audio	
Audio Streaming	Build-in microphone
Audio Compression	G.711
Audio Input	Adjustable audio input gain
Network and Configuration	
Network Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE802.3af
Network Protocol	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, UPNP, SIP
Security	Password protection, IP address filtering
User	5 clients on-line monitoring at the same time
System Integration	
Application Programming Interface	Open SDK/API for software integration ONVIF Compliant
VoIP Standard	SIP 2.0 (RFC3261)
Intelligent Video	Motion detection Privacy mask Backlight compensation 3D noise reduction
Alarm Triggers	Motion detection Network disconnect Tampering detection

	Audio detection
Alarm Events	FTP upload, email upload, SD Card record and SIP Phone
Environment	
Power Requirements	IEEE 802.3af (Class 2)
Power Consumption	Max. 4W(PoE)
Operating Temperature	-10 ~ 60 degrees C
Operating Humidity	0 ~ 90% (non-condensing)
Dimensions (W x D x H)	85 x 85 x 46.1mm
Weight	125g
Emission	CE, FCC
Connectors	10/100M Ethernet, RJ-45 Micro SD/SDHC card (Class 6)

3.3 PHYSICAL SPECIFICATIONS

Dimensions	85 x 85 x 46.1 mm
Weight	125g (Net weight)

➤ Overview



Interface	Description
Audio In	The Camera has a built-in microphone. This microphone allows outputting voice to video SIP phone or triggering alarm.
Ethernet Port (PoE)	The camera is compliant with IEEE802.3af and only powered by PoE switch or Injector.
Reset Button	1. This button is used to restore all the factory default settings. Sometimes restarting the camera will make the system back to a normal state. If the system still got problems after restart, user

	<p>can restore the factory default settings and install it again.</p> <p>2. Press and hold it at least 5 seconds. Don't release the button until the light of error LED is flashing continually. Then the device has been restored to default settings and reboot again.</p> <p>Note: Restoring the factory default setting will lose all the previous settings including IP address forever. User needs to run the PLANET Smart Discovery Lite program to search the device and configure it to let the device work properly again.</p>
MicroSD/SDHC Card Slot	Supports MicroSD card up to 64GB. Please don't insert or take out the card when the IP camera is operating.

3.4 ENVIRONMENTAL SPECIFICATIONS

Temperature

Operating	-10 ~ 60 degrees C
Storage	-30 ~ 60 degrees C

Operating Humidity

Operating	0 ~ 90% (non-condensing)
Storage	0 ~ 95% (non-condensing)

3.5 ELECTRICAL SPECIFICATIONS

Device Input Voltage	PoE 802.3af (Class 2)
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3.6 REGULATORY COMPLIANCE

FCC, CE, RoHS, WEEE

3.7 RELIABILITY

MTBF > 50,000hrs @ 25 Degree C

3.8 BASIC PACKAGING

- Camera unit x 1
- User's Manual CD x 1
- Quick Installation Guide x 1
- Wall-mount Kit x 1

3.9 PACKAGE INFORMATION

Dimensions(W x D x H)	140 x 130 x 75 mm
Weight	323g
Carton Dimensions (W x D x H)	570 x 280 x 440
Carton Weight	14.4 kg
Carton Unit	42 pcs in one carton

APPENDIX A: DEFAULT SETTING

Default DHCP Client	On
Default IP Address	192.168.0.20 – if no DHCP existed in the network
Default Login User Name	admin
Default Login Password	admin
Search Tools	Smart Discovery Lite