

Product Specifications

1080p IR Dome PoE IP Camera

ICA-4250

Release 3.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2016/04/14	Keithy	Initial release
Version 1.1	2016/05/27	Keithy	Add Protection Class and Cold Boot Temperature
Version 2.0	2017/05/19	Simon	Upgrade Sensor Hardware
Version 3.0	2019/04/29	Keithy	Support H.265

Author	Keithy	Editor:	Mark
Reviewed by:	Jonas	Approved by:	Kent

1. PRODUCT DESCRIPTION

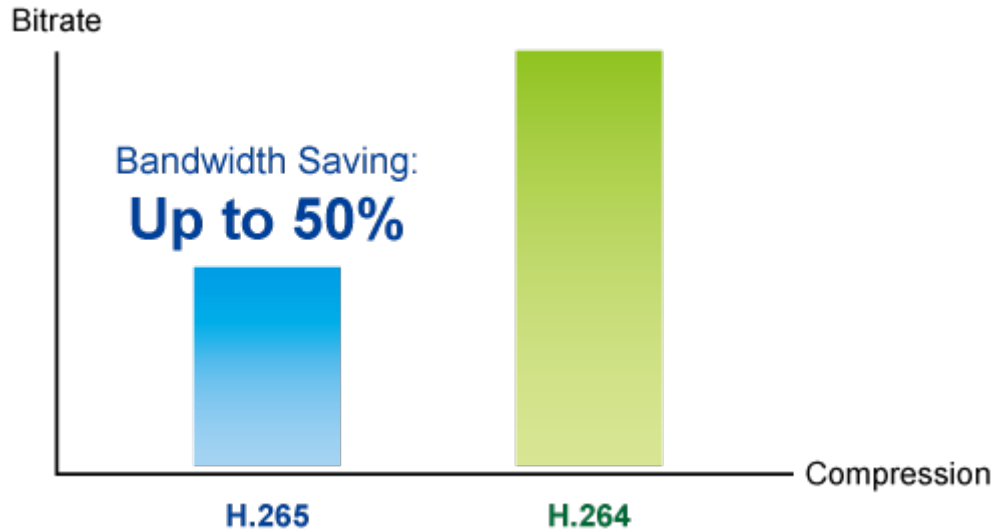


Compact and Cost-effective 1080p HD Surveillance

PLANET ICA-4250 PoE IP Camera delivers excellent picture quality in H.265 1080p Full HD resolutions at 30 frames per second (fps). Incorporating the Sony super low lux CMOS image sensor and 15- to 20-meter IR illuminators, which are specially designed for surveillance applications, the ICA-4250 provides sharp images under all lighting conditions. Moreover, it has an IP66-rated housing that can withstand any harsh temperature ranging from -15°C to 55°C. Its outdoor and handy features enable you to easily install the camera in any public areas, such as buildings, gardens, parking areas, railway stations and hospitals.

High Efficiency Video Compression

The ICA-4250 employs the H.265 technology to enable the camera to provide higher and more efficient image compression rates. If the same image quality level of H.264 is compared with that of H.265, the latter is able to save around 50% of bandwidth, meaning H.265 offers much higher quality video for less bandwidth. Thus, it can further enhance the overall performance of its IP surveillance system.



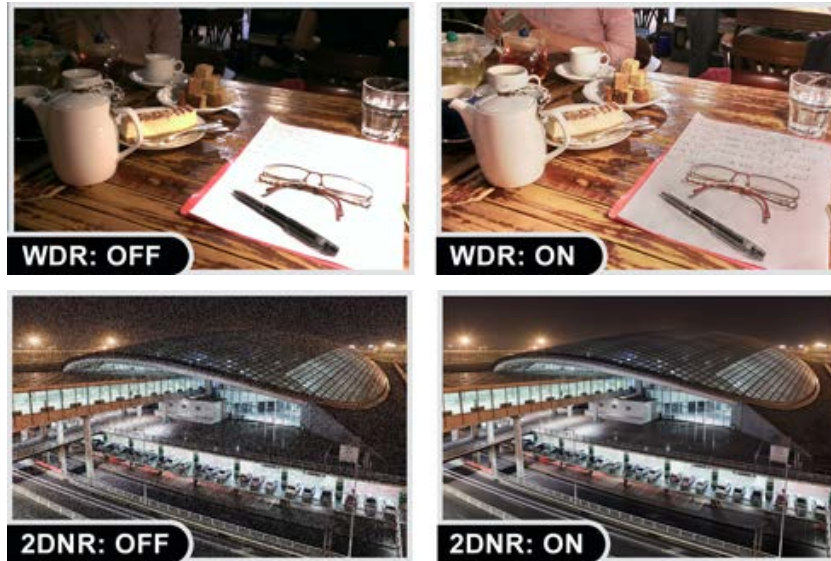
Day & Night Surveillance

To adapt to constantly changing lighting conditions during the day and night, the ICA-4250 comes with a Sony low lux sensor (0.01 lux) and powerful IR illuminators, which enable the camera to provide color video when there is sufficient light, and black and white video in dark conditions. The ICA-4250 is able to maintain clear images 24 hours a day.



Exceptional Image Quality

Together with powerful image processing attributes like Wide Dynamic Range (WDR) and 2-dimensional Noise Reduction (2DNR) technology, the ICA-4250 is able to filter the intense backlight surrounding a subject and remove noises from video signal. The result is that an extremely clear and exquisite picture quality can be produced even under any challenging lighting conditions.



Water Resistance and Dust-proof Protection

The IP66-rated housing protects the camera body against rain and dust, and ensures operation under extreme weather conditions, which makes it an ideal solution for outdoor applications, such as buildings, roads, parking areas, garages, railway stations and airports.



Advanced Media Management

The ICA-4250 supports a number of advanced features to enhance surveillance flexibility and event management capabilities. The advanced features include 4 configurable regions of privacy mask to protect personal privacy, and external RCA ports that allow accessories, such as speakers and microphones, to be added to the camera for two-way audio function.

2-way Audio



Flexible Installation and Power Functionality

The ICA-4250 incorporates IEEE 802.3af/at Power over Ethernet standard and is able to be powered via the network cable from a PoE power sourcing equipment such as PoE Switch or PoE injector. It thus eliminates the need for extra power cables and reduces installation costs while increases the deployment flexibility. The ICA-4250 is ONVIF compliant and thus, it is interoperable with other brands in the market. The ICA-4250 is indisputably the ideal choice for reliable and high-performance surveillance.



2. PRODUCT FEATURES

➤ **Camera**

- 1/2.8" Sony Exmor progressive scan CMOS sensor
- 3.6 mm fixed lens with fixed iris
- 0.01 lux minimum illumination at F1.2
- Maximum resolution 1920 x 1080
- 24 built-in powerful IR illuminators, effective up to 15~20 meters
- Removable IR-cut filter for Day & Night function

➤ **Video and Audio**

- Simultaneous H.264 and H.265 video compression
- Simultaneous multi-stream support
- Max. resolution of 1080p at 30fps
- DNR to improve picture quality at low lux
- WDR enhancement function strengthens visibility under extremely bright or dark environments
- Two-way audio support with enhanced audio quality

➤ **Network and Configuration**

- Compliant with IEEE 802.3af/at PoE interface for flexible deployment
- RTSP, FTP, and PLANET DDNS protocols selectable

➤ **Easy Installation and Management**

- ONVIF compliant for interoperability
- IP66-rated housing and waterproof RJ45 connector for rigorous environment
- Intelligent motion detection alarm
- Easy configuration and management via Windows-based utility or web interface

3. PRODUCT SPECIFICATIONS

3.1 Component Specifications

CPU	Hi3516C
Sensor	IMX-323
RAM	1GB
Flash	8MB

3.2 Functional Specifications

Model	ICA-4250
Camera	
Image device	1/2.8" 2 mega-pixel Sony Exmor progressive scan CMOS sensor
Lens	Fixed lens 3.6mm, F1.2 Angle of view: Horizontal: 74 degrees Vertical: 55 degrees
Min. Illumination	0.01 lux (color) @ F1.2 0 lux (B/W) @ IR on
IR Illuminations	IR LED x 24, 850nm Built-in IR illuminators, effective up to 15~20 meters* *The IR distance is based on the environment.
Effective Pixels	1920 x 1080 pixels
Image	
Video Compression	H.264/H.265
Video Resolution	1080p, 960p, 720p, 704 x 576, 640 x 480, 352 x 288
Frame Rate	Up to 30fps for all resolutions
Bitrate	1024~8000kbps
Shutter Time	1/25~1/10000 sec
Image Setting	2D noise reduction WDR Brightness, saturation, contrast Mirror/Rotate Privacy mask (4 regions) Text, time and date overlay
Streaming	Simultaneous multi-profile streaming Streaming over HTTP or RTSP Controllable frame rate and bandwidth Constant and variable bit rate
Audio	
Audio Streaming	Two-way audio
Audio Compression	G.711 (A-law and μ -law)
Audio Input	Cable with RCA jack
Audio Output	Cable with RCA jack
Network and Configuration	
Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX


	IEEE 802.3af/at Power over Ethernet
Protocol	IPv4, TCP/IP, HTTP, FTP, DHCP, DNS, PLANET DDNS, RTP, RTSP, RTCP, PPPoE, NTP, SMTP
Security	Password protection
Users	3 clients on-line monitoring at the same time
System Integration	
Application Programming Interface	SDK for software integration ONVIF compliant
Alarm Triggering	Motion detection
Alarm Events	Event snapshot upload via FTP Notification via email, and HTTP
General	
Power Requirements	12V DC, 1A IEEE 802.3af/at Class 3
Power Consumption	8W (IR on)
Weight	390g
Dimensions (Φ x L)	110 x 86 mm
Emission	CE, FCC
Housing	IP66-rated
Connectors	10/100Mbps Ethernet, waterproof RJ45 connector DC power jack RCA audio in (white) and RCA audio out (red)
Environments	
Cold Boot Temperature	-10 ~ 50 degrees C
Operating Temperature	-15 ~ 55 degrees C
Operating Humidity	20 ~ 80% (non-condensing)

3.3 Physical Specifications

Dimensions (Φ x L)	110 x 86 mm
Weight	390g (gross weight)

➤ **Camera Image**



Item	Description
Lens	Keep the lens clean for excellent video quality.
IR LED	Emits infrared light to provide light source in dark places.
Light Sensor	<p>Detects the illumination level or the place where this IP camera is installed, and switches IR LEDs on when it's required.</p> <div style="border: 1px solid black; padding: 5px;"> <p> Note When IR LEDs are switched on, this IP camera will switch to black and white video mode to enhance video quality. Do not cover light sensor or else this IP camera will work in black and white mode only.</p> </div>

3.4 Environmental Specifications

Temperature

Cold Boot	-10 ~ 50 degrees C
Operating	-15 ~ 55 degrees C

Operating Humidity

Operating	20 ~ 80% (non-condensing)
Storage	0 ~ 90% (non-condensing)

3.5 Electrical Specification

Device Input Voltage	12V DC, 1A
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3.6 Regulatory Compliance

CE, FCC, RoHS, WEEE

3.7 Reliability

MTBF> 50,000hrs @ 25 degrees C

3.8 Basic Packaging

- 1 x Camera Unit
- 1 x Quick Installation Guide
- 1 x Cable Gland
- 1 x Screw Package

3.9 Package Information

Dimensions (W x D x H)	136 x 136 x 125 mm
Weight	540g
Carton Dimensions (W x D x H)	550 x 365 x 300 mm
Carton Weight	8.75kg
Carton Unit	18pcs 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	IP Finder II