

## Product Specifications

# 1080p IR Bullet PoE IP Camera

ICA-3250

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 Outdoor Surveillance

PLANET ICA-3250 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 20- to 25-meter IR illuminators, which are specially designed for surveillance applications, the ICA-3250 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.

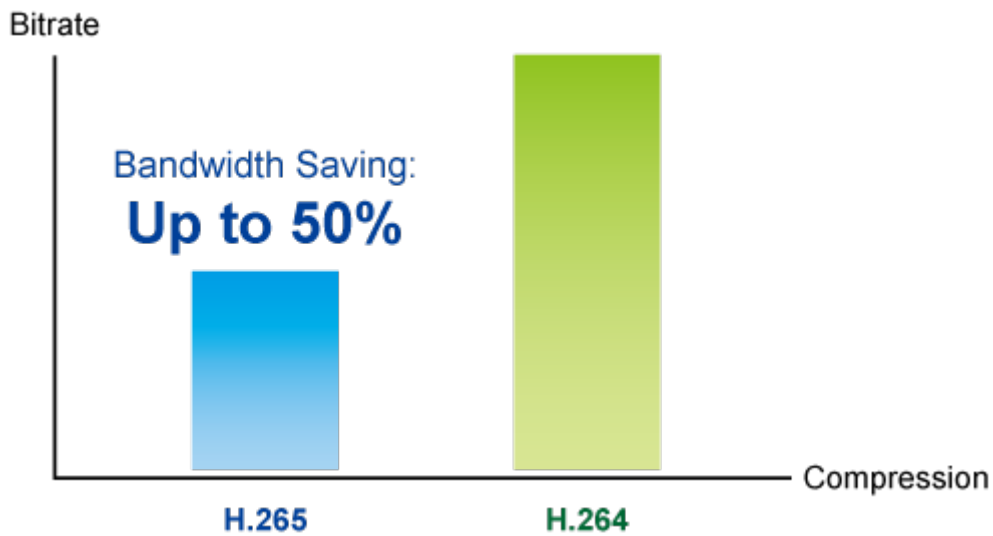
**Sharp Images under All Lighting Conditions!**

A collage of images showing a city street, a security monitor, and a camera. Callouts include: 'Powerful IR' (green circle), 'Alarm Event' (red circle), 'H.264' (blue circle), 'H.265 New Video Compression' (blue circle), and 'Sony Exmor Built-in Sony Sensor' (purple circle). Logos for ONVIF, Google play, and Available on the App Store are at the bottom.

### High Efficiency Video Compression

The ICA-3250 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.



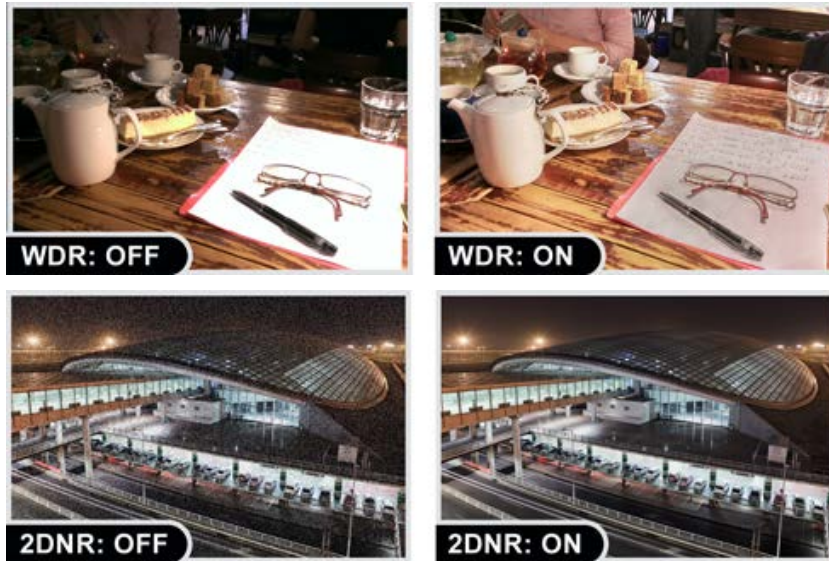
### Day & Night Surveillance

To adapt to constantly changing lighting conditions during the day and night, the ICA-3250 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-3250 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-3250 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-3250 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-3250 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-3250 is ONVIF compliant and thus, it is interoperable with other brands in the market. The ICA-3250 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
- 30 built-in powerful IR illuminators, effective up to 20~25 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 with cable management bracket 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

<b>Model</b>	ICA-3250
<b>Camera</b>	
<b>Image device</b>	1/2.8" 2 mega-pixel Sony Exmor progressive scan CMOS sensor
<b>Lens</b>	Fixed lens 3.6mm, F1.2 <b>Angle of view:</b> Horizontal: 74 degrees Vertical: 55 degrees
<b>Min. Illumination</b>	0.01 lux (color) @ F1.2 0 lux (B/W) @ IR on
<b>IR Illuminations</b>	IR LED x 30, 850nm Built-in IR illuminators, effective up to 20~25 meters* *The IR distance is based on the environment.
<b>Effective Pixels</b>	1920 x 1080 pixels
<b>Image</b>	
<b>Video Compression</b>	H.264/H.265
<b>Video Resolution</b>	1080p, 960p, 720p, 704 x 576, 640 x 480, 352 x 288
<b>Frame Rate</b>	Up to 30fps for all resolutions
<b>Bitrate</b>	1024~8000kbps
<b>Shutter Time</b>	1/25~1/10000 sec
<b>Image Setting</b>	2D noise reduction WDR Brightness, saturation, contrast Mirror/Rotate Privacy mask (4 regions) Text, time and date overlay
<b>Streaming</b>	Simultaneous multi-profile streaming Streaming over HTTP or RTSP Controllable frame rate and bandwidth Constant and variable bit rate
<b>Audio</b>	
<b>Audio Streaming</b>	Two-way audio
<b>Audio Compression</b>	G.711 (A-law and $\mu$ -law)
<b>Audio Input</b>	Cable with RCA jack
<b>Audio Output</b>	Cable with RCA jack
<b>Network and Configuration</b>	
<b>Standard</b>	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX

	IEEE 802.3af/at Power over Ethernet
<b>Protocol</b>	IPv4, TCP/IP, HTTP, FTP, DHCP, DNS, PLANET DDNS, RTP, RTSP, RTCP, PPPoE, NTP, SMTP
<b>Security</b>	Password protection
<b>Users</b>	3 clients on-line monitoring at the same time
<b>System Integration</b>	
<b>Application Programming Interface</b>	SDK for software integration ONVIF compliant
<b>Alarm Triggering</b>	Motion detection
<b>Alarm Events</b>	Event snapshot upload via FTP Notification via email, and HTTP
<b>General</b>	
<b>Power Requirements</b>	12V DC, 1A IEEE 802.3af/at Class 3
<b>Power Consumption</b>	8W (IR on)
<b>Weight</b>	440g
<b>Dimensions (Φ x L)</b>	63.5 x 136 mm
<b>Emission</b>	CE, FCC
<b>Housing</b>	IP66-rated with cable management bracket
<b>Connectors</b>	10/100Mbps Ethernet, waterproof RJ45 connector DC power jack RCA audio in (white) and RCA audio out (red)
<b>Environments</b>	
<b>Cold Boot Temperature</b>	-10 ~ 50 degrees C
<b>Operating Temperature</b>	-15 ~ 55 degrees C
<b>Operating Humidity</b>	20 ~ 80% (non-condensing)


### 3.3 Physical Specifications

<b>Dimensions (Φ x L)</b>	63.5 x 136 mm
<b>Weight</b>	440g (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> <b>Note</b> 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

<b>Cold Boot</b>	-10 ~ 50 degrees C
<b>Operating</b>	-15 ~ 55 degrees C

#### Operating Humidity

<b>Operating</b>	20 ~ 80% (non-condensing)
<b>Storage</b>	0 ~ 90% (non-condensing)

### 3.5 Electrical Specification

<b>Device Input Voltage</b>	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

<b>Dimensions (W x D x H)</b>	210 x 109 x 90 mm
<b>Weight</b>	550g
<b>Carton Dimensions (W x D x H)</b>	550 x 365 x 300 mm
<b>Carton Weight</b>	10.5kg
<b>Carton Unit</b>	30pcs in one carton

## ***APPENDIX A: Default Setting***

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<b>Default DHCP Client</b>	On
<b>Default IP Address</b>	192.168.0.20 – if no DHCP existed in the network
<b>Default Login User Name</b>	admin
<b>Default Login Password</b>	admin
<b>Search Tools</b>	IP Finder II

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