

## Product Specifications

### 5 Mega-pixel Outdoor IR PoE Fisheye IP Camera with Extended Support

## ICA-E8550

Version 1.1

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#### Change History:

Revision	Date	Author	Change List
Version 1.0	2015/12/23	Keithy	Initial release
Version 1.1	2018/08/22	Keithy Lin	Remove CV7L. Change search tool to Smart Discovery Lite.

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

## 1. PRODUCT DESCRIPTION



### **Full Surveillance with 360° Surround View**

PLANET ICA-E8550 fish-eye camera allows you to monitor all angles of a location indoors or outdoors using just one camera and thus saves lots of the traditional mechanical Pan/Tilt maintenance cost. The e-PTZ feature of the ICA-E8550 can allow user to use e-PTZ to zoom in, zoom out, and pan across your camera's video to survey a large area easily.

### **Professional, High-resolution Network Camera**

The ICA-E8550 is a high-resolution camera for the round-the-clock surveillance. This camera supports H.264 and MJPEG compression formats and delivers excellent picture quality in 5 mega-pixel resolutions at 15 frames per second (fps).

### **Day & Night Functionality**

To adapt to constantly changing lighting conditions during the day and night, the ICA-E8550 comes with a removable IR-cut filter and built-in IR illuminators, which enable the camera to provide color video when there is sufficient light, and black/white video in dark conditions. The ICA-E8550 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-E8550 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.

### **Ideal for installation in rolling stock application**

Designed for railway and other rugged applications, the ICA-E8550 with NEMA4X housing is EN50155 certified. It is adapted to withstand vibrations, humidity, dust and temperature fluctuations particularly designed for mass transit vehicles.

### **High-level Outdoor Protection**

With the IK10-rated vandal-proof metal casing and enhanced transparent cover, the ICA-E8550 ensures resistance against impacts.

Its housing is also IP68-rated to protect the camera body against rain and dust and ensures the camera can be operated under extreme weather conditions.

### **Extended Support with Specific Software**

The ICA-E8550 IP cameras is able to provide advanced surveillance monitoring applications with specific software such as video analyzing. It supports the CV7-VA, a software of video analytics that is designed to transform your video surveillance network into a smart detection system. The software provides Enter Area, People Counting, Missing Object, Line Crossing, Unattended Object and Tamper functions. Once a suspicious activity is detected, users can play back to watch these events and use them as references or evidences if needed.

### **Flexible Installation and Power Functionality**

The ICA-E8550 incorporates IEEE 802.3af Power over Ethernet technology and can be powered from a PoE switch via the network, which eliminates the need for power cables and reduces installation costs. In addition, the ICA-E8550 is ONVIF-compliant and therefore interoperable with other brands in the market, greatly supporting users to integrate with their existing surveillance network.

## 2. PRODUCT FEATURES

### ➤ Camera

- 5 mega-pixel progressive scan CMOS sensor
- 1.19 mm fix focal, fixed-iris lens
- 0.1 lux minimum illumination at F2.0
- Maximum resolution 2592 x 1944
- Built-in adaptive 3 IR illuminators, effective up to 15 meters
- Removable IR-cut filter for Day & Night function

### ➤ Video/Audio

- H.264/MJPEG video compression
- Simultaneous multi-stream support
- H.264 high profile, main profile and baseline
- Max. resolution of 5 mega-pixel at 15fps
- 2DNR to improve picture quality at low lux
- WDR enhancement function strengthens visibility under extremely bright or dark environments

### ➤ Network and Configuration

- Compliant with IEEE 802.3af PoE interface for flexible deployment
- Supports both IPv6 and IPv4 protocols
- RTSP, UPnP, Bonjour and HTTPS protocols selectable

### ➤ Easy Installation & Management

- EN50155 compliant for mobile surveillance
- NEMA4X housing for rugged applications
- ONVIF compliant for interoperability
- IK-10, IP68 classification with vandal and weather proof
- Micro SD card local video recording supported

### 3. PRODUCT SPECIFICATIONS

#### 3.1 Component Specifications

CPU	A1 Soc
RAM	1Gb
Flash	128Mb

#### 3.2 Functional Specifications

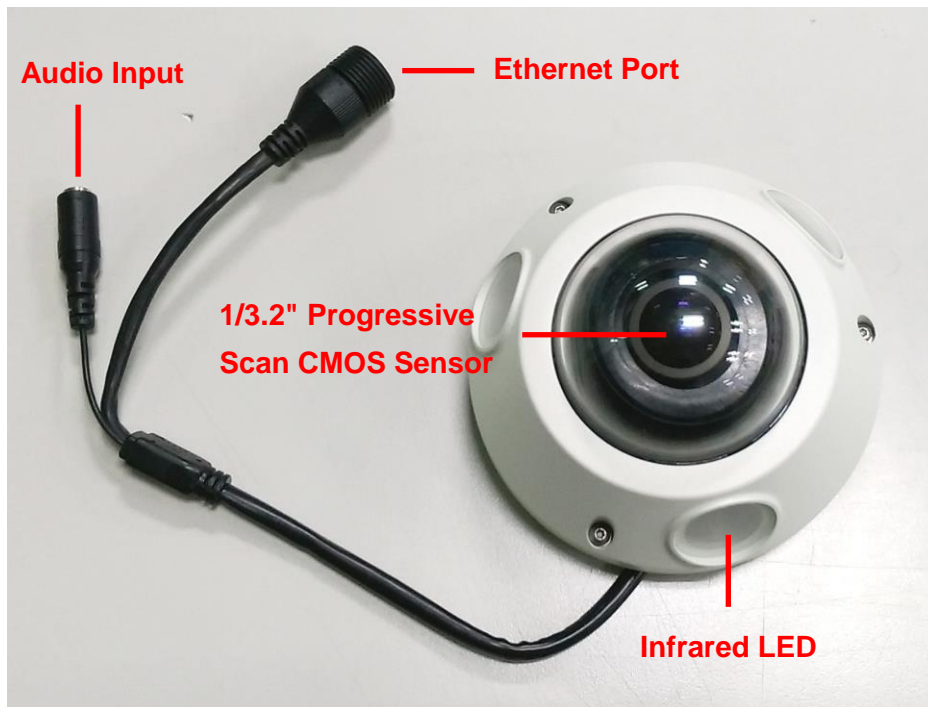
<b>Model</b>	ICA-E8550
<b>Camera</b>	
<b>Image Device</b>	5 mega-pixel progressive scan CMOS Sensor
<b>Lens</b>	Fix focal, f1.19 mm/F2.0, fixed-iris Mechanical IR-cut filter Angle of view: 360 degrees
<b>Min Illuminator</b>	Color: 0.1 lux @ F2.0 (30 IRE, 2400°K) B/W: 0 lux (IR on)
<b>IR Illumination LED</b>	Adaptive IR LED x 3, 850nm Built-in IR illuminators, effective up to 15 meters
<b>Effective Pixels</b>	2592 x 1944 pixels
<b>Electronic Shutter</b>	1/5~1/32000 sec
<b>Image</b>	
<b>Video Encoder</b>	H.264, MJPEG
<b>Video Profile</b>	H.264: 2592 x 1944, 2048 x 1536, 1440 x 1080, 1280 x 960, 800 x 600, 640 x 480, 320 x 240 MJPEG: 2592 x 1944, 2048 x 1536, 1440 x 1080, 1280 x 960, 800 x 600, 640 x 480, 320 x 240
<b>Frame Rate</b>	Up to 15fps for all resolutions
<b>Image Setting</b>	Video Flipping/Video Mirroring, Brightness, Contrast, 2DNR, WDR (74dB), Exposure, White Balance, OSD, Privacy Mask (4 regions)
<b>Streaming</b>	Simultaneous dual streams based on two configurations Controllable frame rate and bandwidth Constant and variable bit rate
<b>Audio</b>	
<b>Compression</b>	PCM, G.711A, G7.11U
<b>Audio Input</b>	Cable with 3.5mm phone jack
<b>Network and Configuration</b>	
<b>Network Standard</b>	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX
<b>Protocol and Service</b>	TCP, UDP, HTTP, HTTPs, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, PLANET DDNS, PLANET Easy DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
<b>Security</b>	Password protection, IP address filtering, HTTPS encryption, anonymous login, 802.1X network access control

<b>Users</b>	10 simultaneous unicast users
<b>System Integration</b>	
<b>Application Programming Interface</b>	Software Development Kit (SDK) available; ONVIF compliant
<b>Alarm Triggering</b>	Video motion detection (3 regions), sound detection
<b>Alarm Events</b>	Notify control center; change camera settings; command other devices; e-mail notification with snapshots; save video or snapshot to local storage; upload video and snapshot to FTP server
<b>General</b>	
<b>Power Supply</b>	PoE Class 2 (IEEE 802.3af)
<b>Power Consumption</b>	PoE: 5.04W (IR On)
<b>Housing</b>	IK10/IP68 classification with vandal and weather proof, NEMA 4X, EN50155 certification with vibration proof
<b>Operating Temperature</b>	-20 ~ 50 degrees C
<b>Operating Humidity</b>	10 ~ 85% (non-condensing)
<b>Weight</b>	469g
<b>Dimensions (Φ x L)</b>	115 x 70 mm
<b>Emission</b>	CE, FCC
<b>Connectors</b>	10/100Mbps Ethernet, RJ45 Reset button Micro SDHC/micro SDXC card slot (max. 32GB, class 10)

### 3.3 Physical Specifications

<b>Dimensions (Φ x L)</b>	115 x 70 mm
<b>Weight</b>	469g

**Top View**



**Inside View**



Interface	Description
<b>Lens</b>	Keep this area clean for excellent video quality.
<b>IR LED</b>	Emits infrared light to provide light source in dark places.
<b>Audio In</b>	User can connect an external microphone with 3.5mm audio cable to receive audio. .

Interface	Description
<b>Ethernet Port</b>	Connects to a network using a standard Ethernet cable.
<b>Reset Button</b>	Use the Reset Button to reset the camera to its factory default settings. To do the reset, press and hold the Reset button for at least 5 seconds or until the Power LED lights up. When the Power LED lights up again, reset is completed.
<b>Micro SD Card Slot</b>	Insert a memory card (not included) into this slot for local recording purposes.

### 3.4 Environmental Specifications

#### Temperature

<b>Operating</b>	-20 ~ 50 degrees C
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#### Operating Humidity

<b>Operating</b>	10 ~ 85% (non-condensing)
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### 3.5 Electrical Specifications

<b>Device Input Voltage</b>	PoE Class 2 (IEEE 802.3af)
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### 3.6 Regulatory Compliance

FCC, CE, RoHS, WEEE

### 3.7 Reliability

MTBF > 50,000hrs @ 25 degrees C

### 3.8 Basic Packaging

- ICA-E8550 x 1
- Quick Installation Guide x 1
- Mounting Screw Kit x 1
- Cable Gland x 1
- Cosmetic Cover (For unused IR LED) x 3
- Mounting Label x 1
- Hexagon Screwdriver x 1
- Desiccant Bag x 1



### 3.9 Package Information

<b>Dimensions (W x D x H)</b>	200 x 200 x 120 mm
<b>Weight</b>	895g
<b>Carton Dimensions (W x D x H)</b>	420 x 420 x 390 mm
<b>Carton Weight</b>	11.5kg
<b>Carton Unit</b>	12pcs in one carton

**APPENDIX A: DEFAULT SETTING**

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