3 Mega-Pixel Vandal Proof Fish-Eye IP Camera

The PLANET ICA-8350 3 Mega-Pixel Fish-Eye IP Camera supports H.264, and JPEG compression formats and delivers excellent picture quality in up to 1536 x 1536 pixels at 20 frames per second (fps). Incorporating the professional 3.4 MP-resolution sensor, the ICA-8350 provides high quality images and panorama function with quad view to enable images of monitoring and recording from four different angles to be displayed simultaneously. It offers 180° panoramic view by wall mount installation or 360° surround view in deployment of ceiling / floor / table mount. Therefore, users do not need to install multiple IP cameras and hence save tremendous installation and maintenance cost. Moreover, the IP66-rated vandal proof housing protects the ICA-8350 against rain and dust and ensures stable operation under extreme weather conditions. The ICA-8350 is an ideal solution for both indoor and outdoor surveillance applications such as buildings, hospital, bank, hotel lobby, garages, hallway, stores and offices.

Camera

- 1/2.8" 3.4 Mega-Pixel progressive scan CMOS sensor
- 360° /180° Fish-Eye panoramic wide angle view
- 9 different video modes including digital PTZ function
- Maximum resolution 1536 x 1536
- Removable IR-Cut Filter for Day & Night Function

Video / Audio

- H.264 and M-JPEG video compression simultaneously
- Simultaneous multi-stream support
- H.264 high profile, main profile and baseline
- Up to 22fps for all resolutions
- 3DNR 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
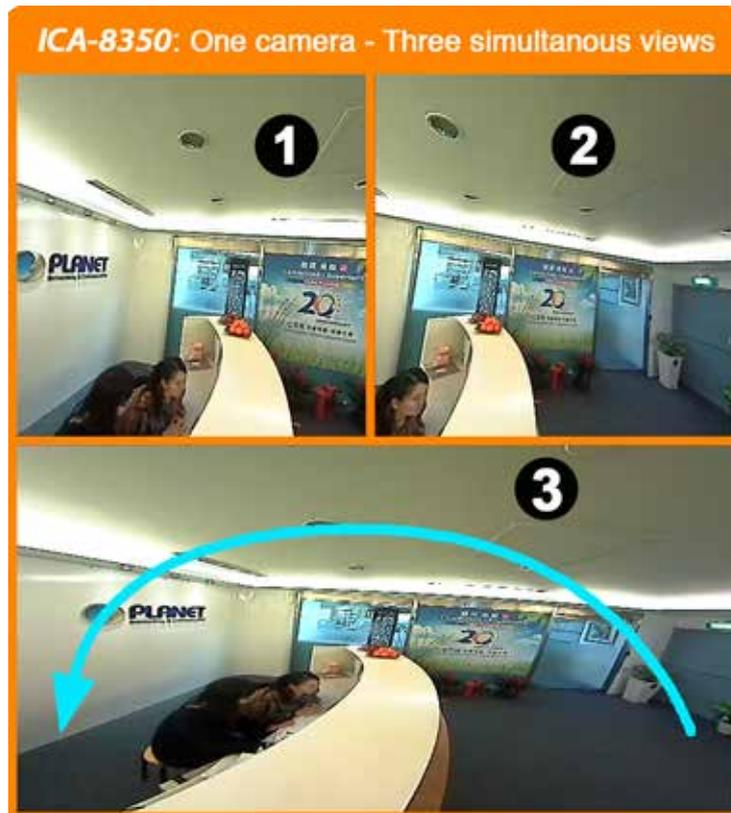
Network and Configuration

- Compliant with IEEE 802.3af PoE interface for flexible deployment
- Equipped with Gigabit Ethernet port
- Auto MDI/MDI-X supported
- Supports IPv6 in addition to the standard IPv4
- RTSP / UPnP / 3GPP / HTTPS protocols selectable

Easy Installation & Management

- ONVIF compliant for interoperability
- IP66 outdoor classifications for rigorous environment
- Built-in Samba client for NAS
- 3GPP for 3G mobile remote applications
- Micro SD card local video recording supported
- RS-485 interface for P/T scanner control
- Digital Input/Output for integration with sensors and alarms
- Cam Viewer 3 Central management software supported

Complete Monitoring by 360° Surround View

The ICA-8350 is a fisheye camera with 360 Degree panoramic wide angle view without blind spot to allow monitoring all angles of a location using just one camera and thus save lots of traditional mechanical Pan/Tilt maintenance cost. The distorted hemispherical image of the fisheye camera will be converted into the conventional rectilinear projection. Without installing any software, by the ICA-8350, you can watch live view and utilize functions such as motion detection and camera tampering through the Web interface via an IE browser. It also provides distortion correction function to fix the camera video so users can zoom in and zoom out the image, and pan across the camera's video to survey a large area easily.
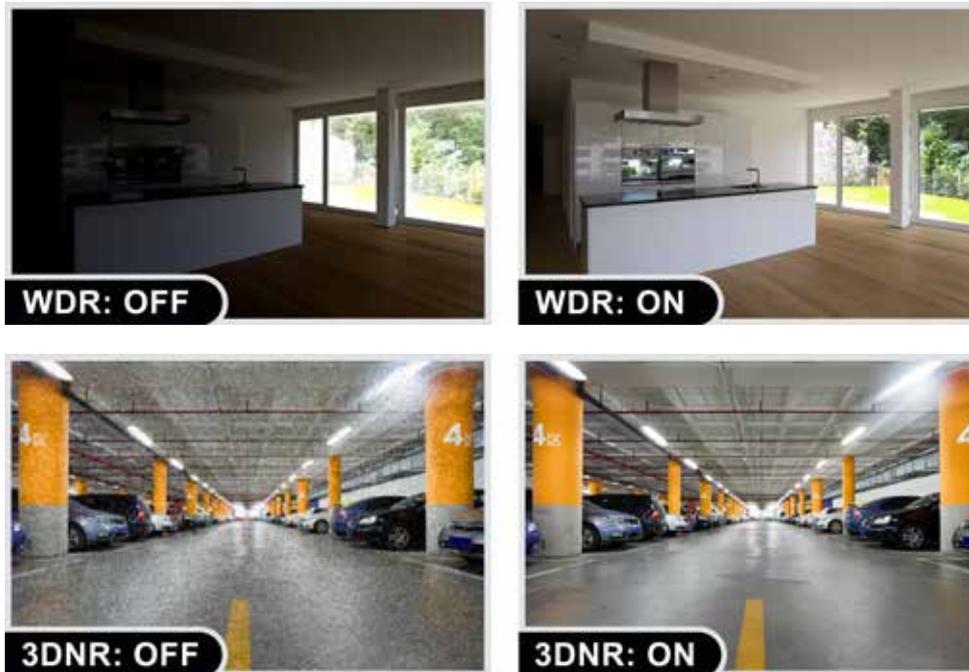

Day & Night functionality

The ICA-8350 features an automatic, removable infrared-cut filter, which enables the camera to provide color video when there is sufficient light, and black/white video in dark conditions. The camera is able to maintain clear images 24 hours a day.

Exceptional Image Quality

Together with powerful image processing attributes like Wide Dynamic Range and 3D Digital Noise Reduction (3DNR) technology, the ICA-8350 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.

Camera tampering and audio detection

Provided with three individually configurable motion detection zones, the ICA-8350 can record video, trigger alarms or alerts when motion is detected in specified areas. Moreover, the camera's built-in microphone enables you to hear voice from where out of the video surveillance range and to trigger the audio detection alarm when sounds like screams or glass breaking are detected.
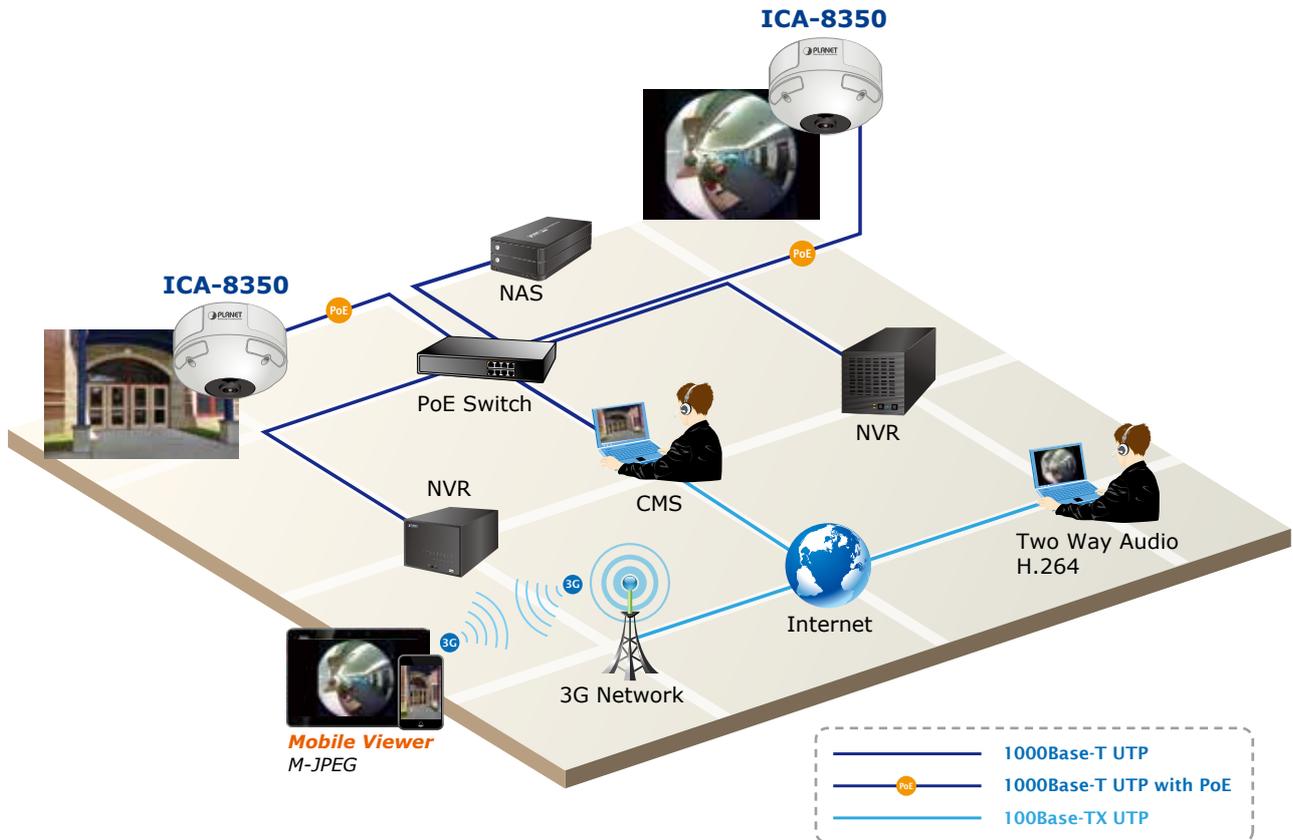
Advanced event management

The ICA-8350 supports a number of advanced features to enhance surveillance flexibility and event management capabilities. The advanced features include AV out for two-way audio function, RS485 for connection of an optional pan/tilt enclosure which effectively adds pan/tilt functionality, and inputs/outputs interface for connecting to external devices such as door sensors and relays to activate light or close doors.

Flexible Installation and Power Functionality

The ICA-8350 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. With advanced features of the Gigabit Ethernet Transmission, the ICA-8350 gives users the utmost in bandwidth flexibility and storage efficiency. Furthermore, the ICA-8350 is ONVIF-compliant and therefore interoperable with other brand's products in the market, greatly supporting users to integrate with their existing surveillance network. In addition, the ICA-8350 seamlessly integrates with the 64-CH central management software, providing advanced monitoring and video management features. The ICA-8350 is indisputably the top choice for reliable and high performance panoramic surveillance.

Application

PLANET ICA-8350 provides various surveillance applications to deliver clear images in 360 Degree panoramic view. It helps to identify objects and people, which is perfect for surveillance needs from all aspects such as shop, the mall, lobby, public area and etc.

360 Degree Surveillance

With the panoramic 360 Degree surveillance, the ICA-8350 features digital Pan/Tilt and zoom function providing users 9 different video modes includes:

- **1O** - One Original fisheye view
- **1P** - One Panoramic view
- **1R** - One Regional view
- **1P2R** - One Panoramic and two Regional views
- **1P3R** - One Panoramic and three Regional views

- **2P** - Two Panoramic views
- **1O3R** - One Original and three Regional views
- **4R** - Four Regional views
- **4R PRO** - Four Regional views interactively displayed when the field of view changes in any of the views

Specification

Model	ICA-8350
Camera	
Image Device	1/2.8" 3.4 Mega-Pixel progressive scan CMOS sensor
Lens	FOV=180 +/- 5°(D/H/V), F=2.0, f=1.25mm Mechanical IR Cut Filter Angle of view : 360 Degree view angle
Min Illumination	Cat. 5/5e/6 UTP cable
Effective Pixels	0.5 Lux @ F2.0
Buttons	1536 x 1536 pixels
Video	
Video Encoder	H.264 / M-JPEG
Video Resolution	H.264 1536 x 1536 / 1280 x 1280 / 768 x 768 / 384 x 384 M-JPEG 1536 x 1536 / 1280 x 1280 / 768 x 768 / 384 x 384
Frame Rate	Up to 22fps for all resolutions
Image Setting	AE, AWB 3D Noise reduction Color, brightness, sharpness, contrast Mirror/Flip 7 Privacy Masks Text, time and date overlay
Streaming	Simultaneously multi-profile streaming Streaming over UDP, TCP, or HTTP M-JPEG streaming over HTTP (server push) Controllable frame rate and bandwidth Constant and variable bit rate (H.264) ROI AOI
Region of Interest	2 windows with selectable resolution and codec max region size 640x352
Rate Control	CBR (Constant Bit Rate) VBR (Variable Bit Rate) EVBR (Enhanced Variable Bit Rate)
UI Layout	1O - One Original fish-eye view 1P - One Panoramic view 1R - One Regional view 2P - Two Panoramic views 1O3R - One Original and three Regional views 4R - Four Regional views 1P2R - One Panoramic and two Regional views 1P3R - One Panoramic and three Regional views 4R PRO - Four Regional views interactively displayed when the field of view changes in any of the views
Audio	
Audio Streaming	2-Way Audio
Audio Compression	RTSP: G.711 64kbps, G.726 32kbps
Microphone	External microphone input
Audio Output	Adjustable audio output gain
Network and Configuration	
Network Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T
Network Protocol	IPv4, IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, IGMP, PPPoE, 3GPP, ICMP, Samba
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, user access log

Users	20 simultaneous unicast users
System Integration	
SDK	Open API for software integration ONVIF
Alarm Triggers	Intelligent video motion detection and external input
Alarm Events	File upload via FTP, Samba, SD card or email Notification via email, HTTP, and TCP External output activation Audio alerting output Pre and post alarm buffering
Environment	
Power Requirement	12V DC, 1A IEEE 802.3af Power over Ethernet Class 3
Power Consumption	7W max.
Operating Temperature	-20 ~ 50 Degree C
Operating Humidity	20 ~ 80% (non-condensing)
Weight (includes LENS)	817g
Dimension (ƒ x H)	140 x 92.7 mm
Emission	CE, FCC
Connectors	10/100/1000 RJ-45 DC power jack Terminal block for 1 alarm input and 1 output RS-485 interface for pan/tilt scanners control External MIC input Audio out Composite video output (Max. resolution: D1 720 x 480 pixel) Micro SD card (Max 32GB, Class 6) Factory default reset

Application

ICA-8350	3 Mega-Pixel Vandal Proof Fish-Eye IP Camera

Related Products

ICA-5350V	3 Mega-Pixel Vandal Proof IR IP Camera
ICA-HM131	H.264 Fixed Dome IP Camera
ICA-HM131R	H.264 Real-Time Fixed Dome IP Camera
ICA-HM136	H.264 2 Mega-Pixel 20M IR Vandal Proof Dome IP Camera
ICA-HM830W	2 Mega-Pixel Wireless Fisheye IP Camera
CV3P-4	4-Channel Cam Viewer 3 Professional
CV3P-8	8-Channel Cam Viewer 3 Professional
CV3P-16	16-Channel Cam Viewer 3 Professional
CV3P-36	36-Channel Cam Viewer 3 Professional
CV3P-64	64-Channel Cam Viewer 3 Professional
NVR-420	4-Ch Network Video Recorder with HDMI
NVR-810	8-CH Network Video Recorder
NVR-1610	16-CH Network Video Recorder
NVR-3210	32-CH Network Video Recorder
NVR-3250	32-Ch Rack Mount Network Video Recorder
CV3-M1024	1024-Channel Central Management Software

ICA-8350