H.265+ 8MP Full Color Smart IR Bullet IP Camera

Excellently Efficient Surveillance Video with Advanced 8MP IP Camera Technology

PLANET ICA-3880 PoE IP Camera offers exceptional image quality with **8-megapixel resolution** and supports **H.264(+) and H.265(+) video compression**. The ICA-3880 brings flexibility and precision to nighttime surveillance with its **dual IR and warm white LED** support, enabling both Smart IR and Full Color modes. This innovative combination allows the camera to adapt effortlessly to various lighting conditions, delivering clear, detailed images in black and white or vibrant full color, depending on the environment. Perfect for maintaining top-quality monitoring around the clock, the **built-in microphone** enables local audio capture, making it ideal for real-time communication and enhancing security with clear sound. This feature adds an extra layer of situational awareness, ensuring that nothing goes unheard in your surveillance environment.

Incorporating the **1/3" Progressive Scan CMOS Sensor** and **40-meter Smart IR/30-meter Full Color** illuminators (*The IR distance is based on the environment.), the ICA-3880 is specially designed for surveillance applications, delivering sharp images in all lighting conditions. With a wide temperature range from **-20** to **60 degrees C**, the ICA-3880, equipped with a tough IP67-rated metal housing and its outdoor and handy features, enables you to easily install the camera in any public areas, such as buildings, gardens, parking areas, markets, railway stations and hospitals. It ensures the highest level of reliability for mission-critical applications in any difficult environment.

Exceptional Image Quality with WDR and 3DNR Technology

The ICA-3880 PoE IP Camera is crafted for optimal performance in dynamic environments, featuring **Wide Dynamic Range (WDR) at 120dB** and advanced **3D Noise Reduction (3DNR)** technology. These powerful image processing capabilities allow it to overcome harsh lighting and background noise, delivering crystal-clear, high-definition visuals in even the most challenging lighting conditions. This makes the ICA-3880 an ideal choice for capturing fine details and ensuring superior surveillance quality in all settings.

Camera

- 1/2.7" Progressive Scan CMOS Sensor
- 4mm fixed with 8MP lens
- 0.05 lux minimum illumination at F1.6
- Built-in Smart IR illuminators, effective up to 40 meters *The IR distance is based on the environment
- Built-in Full Color illuminators, effective up to 30 meters
- Switchable Smart IR/Full Color-cut filter for Day & Night function

Video and Audio

- Simultaneous H.264(+)/H.265(+) dual-stream video encoding
- Supports simultaneous two streaming capabilities.
- H.264(+)/H.265(+) baseline profile, main profile or high profile options
- Max. resolution of 2688 x 1512@25fps
- Supports WDR (WDR) (120dB).
- 3DNR to improve picture quality at low lux
- Built-in microphone for 3~5m record sound
- Image adjustment options
  – Saturation/Brightness/Contrast /Sharpness, Mirror, Anti Flicker, Video Tampering, HLC
  – Full Color
  – Corridor Pattern
  – Color/ B&W (IR-CUT)
  – White Balance
  – Video Adjustment
  – Image Enhancement
  – Defog Model
- OSD Settings (Text, time and date overlay and overlay image on video)
- Event Detection
  – Motion detection
  – Video tampering
  – Intrusion detection
- 3 configurable regions of privacy mask to protect personal privacy
- ROI (Region of Interest)

WDR: OFF

WDR: ON

3DNR: OFF

3DNR: ON

Optimized Video Compression Technology

The ICA-3880 employs the **H.264(+)/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 83% of bandwidth, meaning **H.264(+)/H.265(+)** offers much higher quality video for less bandwidth. Thus, it can further enhance the overall performance of its IP surveillance system.

24-hour File Size (GB)
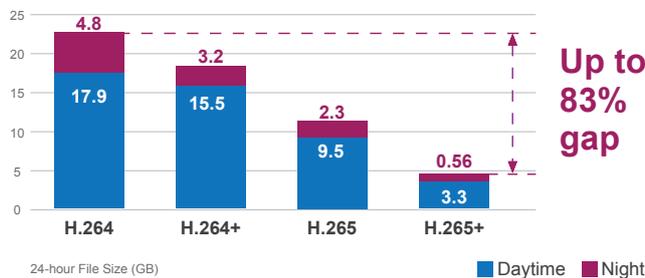
Advanced Media Management with Smart Detection

The ICA-3880 supports a number of advanced features to enhance surveillance flexibility and event management capabilities. The advanced features include **ROI (region of interest)**, motion detection, 3 configurable regions of privacy mask to protect personal privacy, and video tampering function. It also comes with defog model and image adjustment options, newly-added anti-overexposure protection function and three white balance modes. For enhanced security, it also features Intrusion Detection (based on human and vehicle detection) and Motion Detection (based on human detection).

With more user-friendly GUI interface that allows users to better monitor, the ICA-3880 supports **IPv6**, **QoS** and **IEEE 802.1x** functions. Newly-added secure email for password reset and email encryption protocol now can support **TLS**.

Power over Ethernet
2
- Compatible with IEEE 802.3af/at Power over Ethernet PD for flexible deployment

Network Configuration and Management
- PPPoE, IPv4 DHCP Client and IPv4 Static IP Address management
- Supports IPv6.
- PLANET DDNS and Easy DDNS, TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, PPPoE, NTP, SMTP, UDP, Qos,802.1x, P2P, Cloud
- ONVIF compliant for interoperability
- Network Time Protocol (NTP) for time synchronization
- Schedule power rebooting
- System log
- User management options for various authorities:
  – Admin
  – Operator
  – Guest
- System maintenance
  – Firmware upload/download via HTTP/HTTPS
  – Configuration upload/download through web interface
  – Hardware-based reset button for resetting to factory default
- Easy configuration and management via Windows-based software or web interface
- PLANET Search Tools utility and Professional Video/Central Management Software
- NDAA compliant

Case and Installation
- IP67-rated metal housing with cable management bracket for rigorous environment
- Waterproof and dustproof designs
- -20 to 60 degrees C operating temperature
- Plug and Play installation

Flexible Installation and Power Functionality

Powered from a PoE power sourcing equipment such as 802.3af/at PoE switch or 802.3af/at PoE injector over a network cable, the ICA-3880, adopting the IEEE 802.3af/at standard, does not need extra power cables and manpower, thus reducing installation costs while increasing deployment flexibility and scalability. The ICA-3880 is ONVIF compliant and interoperable with other brands in the market, making it an indisputably ideal choice for reliable and high-performance surveillance.

Scheduled Power Rebooting

The ICA-3880 can be scheduled to reboot at a specified time like every minute, every hour, every week or every month to reduce the chance of crash resulting from buffer overflow.
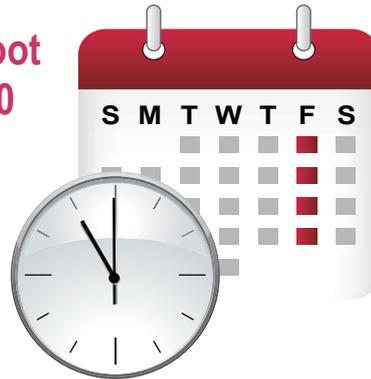
Remote Access via Mobile App, Web Browser or PVMS

Remote management makes you easy to set the configuration and live viewing via Mobile app, NVR, HDVR, and Web browser. Besides, the ICA-3880 provides central surveillance management capability with the adoption of its bundled **PLANET Video Management Software**. With the **PVMS**, the ICA-3880 is expandable for multi-sites management of up to 256-ch IP cameras simultaneously. Users are able to monitor the IP cameras anytime, anywhere.

Water-resistant and Dust-proof Protection

With a robust IP67-rated metal housing, this camera is engineered for all-weather protection against rain and dust, ensuring reliable performance in extreme conditions. Its durability makes it the perfect choice for demanding outdoor environments, including buildings, roadways, parking lots, garages, railway stations, and airports, where dependable surveillance is essential.

Applications

High Scalability for Diverse Outdoor Surveillance

PLANET ICA-3880 8-megapixel PoE IP cam, equipped with dual IR and warm white LEDs, delivers adaptable performance in various lighting conditions, enabling clear color footage in low light and optimal visibility in total darkness. This flexibility is ideal for outdoor settings such as parking areas, roads, and rail stations. The ICA-3880 supports 802.3af/at PoE for power over Ethernet, simplifying installation without external power. With integrated PVMS, NVR, HDVR, and user-friendly web interfaces, this camera is the ultimate choice for reliable, high-quality outdoor surveillance.

Specifications

Product	ICA-3880		
Camera			
Image Sensor	1/2.7" Progressive Scan CMOS Sensor		

Lens	Focus Length: 4mm
	Focus Control: Fixed
	Lens Type: Fixed
	Pixels:8MP
	Angle of view:
	  Horizontal FOV: 87 degrees
	  Vertical FOV: 46 degrees
	  Diagonal FOV: 105 degrees		

Min. Illumination	0.05 lux (color) @ F1.6 0 Lux white light, B/W: 0 Lux with IR		
IR Illuminations	Built-in Smart IR illuminators, effective up to 40 meters Built-in Full color illuminators, effective up to 30 meters *The IR distance is based on the environment.		
Effective Pixels (H x V)	3840 (H) x 2160 (V)		
Power over Ethernet			
PoE Standard	IEEE 802.3af/at PoE PD		
Image			
Video Compression	H.264/H.264+/H.265/H.265+/MJPEG		
Video Resolution	**Item**	**Main Stream**	**Sub Stream**
	H.264/H.264+	3840 x 2160@20fps 3200 x 1800@20fps 2880 x 1620@20fps 1920 x 1080@30fps 1280 x 720@30fps	1280 x 720@30fps 720 x 480@30fps 352 x 288@30fps
	H.265/H.265+		
	JPEG	1280 x 720@30fps	
Frame Rate	Up to 20~30 fps for all resolutions		
Bitrate	32~16384kbps		
Shutter Time	Auto: 1/3-1/100000Sec		
Image Setting	Saturation/Brightness/Contrast /Sharpness, Mirror, Anti Flicker, Video Tampering, HLC Full Color Corridor Pattern Color/ B&W (IR-CUT) White Balance Video Adjustment Image Enhancement Defog Model Distortion OSD Settings Motion detection Video Tampering Intrusion Detection 3 configurable regions of privacy mask to protect personal privacy		
Streaming	Streaming over UDP, TCP, HTTP, or HTTPS Controllable frame rate Constant and variable bit rate ROI (Region of Interest)		

Audio	
Audio Streaming	Built-in micMIC (On-site sound recording, effective distance 3-5M)
Audio Compression	G.711A/G.711U/AAC
Audio Input	Built-in mic
Networking & Configuration	
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3af/at Power over Ethernet
Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, PPPoE, NTP, SMTP, UDP, Qos,802.1x, P2P, Cloud
Security	User Management options for various authority levels - Admin - Operator - Guest
Users	On-line monitoring of 7 clients at the same time
Web Brower	Microsoft IE8-11, Edge, Google Chrome, Firefox
App	Yes (Android, IOS with P2P QR code)
Language	Chinese Simplified, Chinese Traditional, English, Russian, Korean, Polish, French, Japanese, Spanish, Portuguese, Italian, Hebrew, Ukrainian, Arabic, Vietnamese, Thai, Hungarian
System Integration	
Application Programming Interface	ONVIF compliant
Alarm Triggering	Motion detection, v / Video tTampering and i/ Intrusion dDetection
Alarm Events	SMTP, FTP, Cloud (Google)
Hardware Specifications	
Power Requirements	12V DC, 0.7A IEEE 802.3af/at Power over Ethernet
Power Consumption	3.5W (IR on) 4.3W (White LED on)
Dimensions (W x D x H)	70 x 169 x 67.5 mm
Weight	450g
Reset Button	Yes
LED	IR: 38μ x 2pcs, warm LED: 38μ x 2pcs 4000K warm LED
Connector	10/100Mbps Ethernet, waterproof/dustproof RJ45 connector DC power jack
Enclosure	IP67 metal case
Standards Conformance	
Regulatory Compliance	FCC Part 15 Subpart B, CE
NDAA Compliance	Yes
Environment	
Operating	Temperature: -20 ~ 60 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -20 ~ 60 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

Ordering Information

ICA-3880	H.265+ 8MP Full Color Smart IR Bullet IP Camera

Related Products

ICA-4880	H.265+ 8MP Full Color Smart IR Dome IP Camera
ICA-3480	H.265+ 4MP Smart IR Bullet IP Camera
ICA-4480	H.265+ 4MP Smart IR Dome IP Camera
ICA-3480F	H.265+ 4MP Ful Color Bullet IP Camera
ICA-4480F	H.265+ 4MP Full Color Dome IP Camera
ICA-M3580P	H.265 5 Mega-pixel Smart IR Bullet IP Camera with Remote Focus and Zoom
ICA-M4580P	H.265 5 Mega-pixel Smart IR Dome IP Camera with Remote Focus and Zoom
ICA-W8100	Wireless Cube Fish-Eye IP Camera
HDVR-435	H.265 4-ch 5-in-1 Hybrid Digital Video Recorder
NVR-1600	H.265+ 16-ch 4K Network Video Recorder
NMS-500	Universal Network Management Controller
NMS-1000V	Universal Network Management Controller with LCD Touch Screen (10"/12")

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