Photon Series
Professional-Grade IP Surveillance Cameras

EnGenius Photon Series, of professional-grade IP Surveillance Cameras, offer superior, high definition image performance in deployments that need 24/7 monitoring. Retail businesses, corporate or school campuses, multi-tenant housing and luxury estates, are all more secure with a Photon Series IP Camera situated at strategic access points.

With built-in infrared (IR) lighting and motion detection, properties can be monitored day or night in low light or complete darkness. Remotely view cameras and receive email alerts and 10-second video clips directly to an iPhone®, iPad® or Android™ smartphone or tablet for global 24/7 surveillance with EnGenius’ EnViewer™ mobile App.

Extend your camera network to maximize coverage virtually anywhere. Choose the Photon IP Camera or Wireless IP Surveillance System that best meets your surveillance needs, including indoors or outdoors with wired, and near or long-range wireless network access.

Photon Series IP Surveillance Cameras are ideal for deployment in:

- Luxury Homes & Estates
- Small Businesses
- Small-to-Medium Corporate Campuses
- Transportation Hubs – Airports, Bus Depots, & Train Stations
- Schools, Colleges & Universities
- Stadiums & Arenas
- Multi-Tenant Dwellings
- Hotels & Resorts
- Warehouse Operations
- Military Bases
- Medical Centers
- Parks & Golf Courses
- Parking Structures
- Shopping Malls

Features

- Wide angle CMOS lens captures high-res images over broader areas
- Mechanical IR cut filters & built-in IR illuminators for night viewing to 85-ft./25m
- High-speed wired & 802.11n wireless cameras for flexible deployments
- Power-over-Ethernet (802.11af) extends power to unwired areas
- H.264 Video provides up to 1920 x 1080 HD performance with less bandwidth
- Triple Codecs: H.264/MPEG-4 & MJPEG to 30 fps
- Dual-stream supports varying frame-rates & resolutions
- Includes 16-Channel VM Software with live monitoring
- Receive alarm alerts directly to your mobile device for rapid response
- Remotely view cameras from your mobile device with free EnViewer mobile App
- ONVIF-compliant for easy integration with 3rd party products
- Point-to-point & point-to-multipoint surveillance over large distances
- IP66-rated waterproof
Network Integration

Security concerns top the agenda of many organizations today leading to an increased presence of surveillance cameras in homes and businesses alike. As surveillance systems become an integral part of the network, the need to quickly integrate and monitor them along with existing networks becomes increasingly important. EnGenius Photon Series IP Cameras seamlessly integrates quickly and easily with EnGenius’ complete line of wired and wireless networking solutions.

IP Cameras - Superior Surveillance Technology

Today’s surveillance cameras are far superior to their older analog CCTV cousins, providing the highest quality digital images along with the highest frame rates for clearer faces, sharper details and smoother video. Also unlike their analog counterparts, IP cameras integrate easily into existing wired or wireless Ethernet networks and offer:

**Simplified Installation** – Plug-and-play configuration is standard for IP Cameras. Provide power, network connectivity and stream video over a single CAT5/6 cable or go wireless and simply plug the camera into an electrical outlet vs. the configuration time and multiple cables needed for a single analog camera installation.

**Elimination of Unnecessary Hardware** – Connect to existing network switches and store video footage directly to network connected computers or storage servers (NAS), eliminating the need for analog to digital conversion hardware such as video encoders and Digital Video Recorders (DVR).

**Affordable Scalability** – Add cameras as needed, with no limits associated to your DVR’s camera connection capacity.

**Greater Functionality** – Easily view IP camera feeds remotely via the Internet, receive automated alerts via email and integrate with feature-rich monitoring software for Intelligent Surveillance; features only previously available with expensive analog video encoder/DVR systems.

**Open Platform** – Utilizing a standards-based architecture ensures IP cameras and Video Management Software is interoperable with a wider range of network devices, including Windows-based PCs, as compared to proprietary Network Video Recorders (NVRs) and DVRs.

**Improved Image Quality** – On-camera digital processors optimize video, transmitting consistent high-quality digital images without degradation compared to lower quality analog CCTV video, which must be converted to digital by the encoder or DVR, losing even more image quality along the way.

Wireless Cameras offer Affordability, Flexibility & Scalability in Deployment Scenarios

Choose an EnGenius Photon Series Wireless Camera for even greater flexibility in the most demanding deployments. Eliminate the need for expensive trenching or concrete cutting for CCTV cable runs in outdoor perimeter camera placements, and cabling through walls, attics or floors. Wireless Cameras also offer a greater level of scalability and are easily added to an existing system with minimal planning.

Photon Wireless IP Cameras support fast wireless speeds up to 150 Mbps, providing high-speed performance, maximizing HD video transmissions.

Wireless IP Surveillance System

Not all surveillance challenges fit into a neat little box. Campuses, civic centers, shopping complexes, plus indoor and outdoor arenas can be crowded with buildings and other obstructions, and may be saturated with a spectrum of RF signals. EnGenius Wireless IP Surveillance System is designed to provide long-range, point-to-point and point-to-multipoint surveillance coverage for expansive venues, transmitting streaming video at stable, robust wireless speeds over great distances – up to 5 miles point-to-point in challenging environments.

Available in both Wireless N300 speeds, the 2.4 GHz IP Surveillance System (EDS8012 or EDS8022) or the 5 GHz IP Surveillance System (EDS8015 or EDS8025), is designed to withstand extreme environmental conditions and features certified IP-rated housing.
Highly Defined Resolution

All Photon Series IP Surveillance Cameras support the latest Progressive Scan CMOS sensor technology, providing crystal clear details in moving objects like car license plates or facial features making these important details less ambiguous. With High Definition quality video running 1080p at 30 frames per second, Photon IP Cameras provide superior quality and smooth video over analog CCTV with smaller file sizes, which is ideal for viewing video on mobile devices, sending via email and maximizing available storage space.

Optimize Images in Varied Lighting

With Wide Dynamic Range technology, select Photon Series IP Cameras can be fine-tuned to ensure an optimal level of configuration for customized lighting environments, providing clear images, even in highly backlit areas indoors and out.

Alarm Alerts

Integrate IP camera with 3rd party digital alarms, sensors or other electronic devices that activate when motion detectors are triggered, serving as an added deterrent to prolonged suspicious activity.

Excellent Performance in Harsh Environments

Need to deploy surveillance cameras in harsh environments? Select Photon IP Cameras include IP66-rated dust and waterproof housing designed to withstand harsh environmental conditions. With an included cable management bracket, each device is protected and accompanying cables are hidden from damage while offering a clean aesthetic.

Place Almost Anywhere with PoE Support

Extend your camera network to maximize coverage virtually anywhere. Select the Photon IP Camera that best meets your surveillance needs including indoor, outdoor, wired or wireless network access. All cameras are 802.3af-compliant and can be powered via Power-over-Ethernet (PoE), eliminating the need for a nearby electrical outlet.

Example:
Set an event profile to flash an alert light when the active IR sensor is triggered so the camera will send a triggered event alert.
**Push Notification**

Remotely view and monitor up to four (4) cameras simultaneously from anywhere and instantly record video with EnGenius’ EnViewer mobile App. View, record and receive triggered event alerts directly to your smartphone or tablet for instant notifications of events in progress with free downloadable App for Android and iOS.

**24/7 Vigilance**

Monitor your business during or after hours, even in low light or in complete darkness up to 85-feet, with EnGenius Day/Night IP Surveillance Cameras. Receive Motion and Audio Detection alerts (on select models) and recordings directly to your smartphone or iPad ensuring a quick response to suspicious activity.

**Zone Coverage**

Set precise zone coverage within designated areas to record activity or detect motion near entryways or around registers and loading docks within each camera’s field of view. Customize sensitivity in each zone for greater control and even set Motion and Audio Detection Alerts to trigger a connected audible alarm (on select models).

**Enterprise Viewing Capacity**

EnGenius VMS Software allows personnel to easily monitor the entire camera network, whether in a multi-building environment or at an entirely separate location. View feeds from up to 16 cameras concurrently, in real-time, and plan for future expansion to 32 or 64-channel capacities with future software upgrades, available via www.engeniustech.com.

Conduct basic configuration and initiate firmware upgrades right from your desktop and import your office building’s floor plan to create a camera location map through eMap. Schedule recordings based on time or date, such as after hours or when shipments are due to arrive. Setup and configuration is streamlined with VMS’ Discovery Tool, which quickly locates EnGenius IP Cameras.

**16-Channel Video Management Software (VMS)**

Unlike proprietary NVRs and DVRs that are expensive to purchase, maintain and upgrade, EnGenius’ Video Management Software comes free with all Photon Series IP Surveillance Cameras, further enhancing the line’s affordability and lower total cost of ownership.
### Photon Series IP Surveillance Cameras

<table>
<thead>
<tr>
<th>Models</th>
<th>EDS5250</th>
<th>EDS5110</th>
<th>EDS5255</th>
<th>EDS5115</th>
<th>EDS6255</th>
<th>EDS6115</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Type</td>
<td>Bullet</td>
<td>Bullet</td>
<td>Bullet</td>
<td>Bullet</td>
<td>Mini-Dome</td>
<td>Mini-Dome</td>
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<tr>
<td>Progressive Scan CMOS Image Sensor</td>
<td>1/2.7&quot; 2-Megapixel</td>
<td>1/4&quot; 1-Megapixel</td>
<td>1/2.7&quot; 2-Megapixel</td>
<td>1/4&quot; 1-Megapixel</td>
<td>1/4&quot; 1-Megapixel</td>
<td>1/4&quot; 1-Megapixel</td>
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<td>LAN Interface</td>
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<td>Wired/Wireless</td>
<td>Wired/Wireless</td>
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<td>Ethernet Ports</td>
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<td>1 x 10/100Mbps</td>
<td>1 x 10/100Mbps</td>
<td>1 x 10/100Mbps</td>
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<td>Weatherproof</td>
<td>Yes (indoors/outdoors)</td>
<td>Yes (indoors/outdoors)</td>
<td>Yes (indoors/outdoors)</td>
<td>Yes (indoors/outdoors)</td>
<td>No (indoors only)</td>
<td>No (indoors only)</td>
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<td>IR LEDs</td>
<td>12-pieces</td>
<td>12-pieces</td>
<td>12-pieces</td>
<td>12-pieces</td>
<td>12-pieces</td>
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<tr>
<td>HD Resolution</td>
<td>1920 x 1080P</td>
<td>1020 x 720P</td>
<td>1920 x 1080P</td>
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<td>1920 x 1080P</td>
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<td>Frame Rate</td>
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<td>30 fps</td>
<td>30 fps</td>
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<td>Motion Detection</td>
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<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<tr>
<td>F.O.V.</td>
<td>120-degrees</td>
<td>62-degrees</td>
<td>120-degrees</td>
<td>62-degrees</td>
<td>120-degrees</td>
<td>86.8-degrees</td>
</tr>
<tr>
<td>Wide Dynamic Range Technology</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<tr>
<td>802.3af-PoE Compliant</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<tr>
<td>On-board MicroSD</td>
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<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<tr>
<td>Built-in Microphone</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<tr>
<td>Remote Access via EnViewer Mobile App</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<tr>
<td>Email Notifications</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<tr>
<td>Included VM Software</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
<td>✔ ✔ ✔ ✔ ✔ ✔</td>
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<td>✔ ✔ ✔ ✔ ✔ ✔</td>
</tr>
</tbody>
</table>

### Technical Specifications IP Cameras

**Type**
- EDS5110 / EDS5115 / EDS5250 / EDS5255 Bullet
- EDS6115 / EDS6255 Mini-Dome

**Image Sensor**
- EDS5110 / EDS5115 / ED6115
  - 1/4" 1-Megapixel Progressive Scan CMOS Image Sensor
- EDS5250 / EDS5255 / EDS6255
  - 1/2.7" 2-Megapixel Progressive Scan CMOS Image Sensor

**Lens**
- Fixed Board Lens
- Fixed-Focus
- EDS5110 / EDS5115 4 mm @ F1.5
- EDS6115 3.3 mm @ F1.8
- EDS5250 / EDS5255 / EDS6255 2.8 mm @ F1.8

**F.O.V.**
- EDS5110 / EDS5115 62° (diagonal)
- EDS6115 86.8° (diagonal)
- EDS5250 / EDS5255 / EDS6255 120° (diagonal)

**Day/Night**
- Removable Mechanical IR-Cut Filter

**Minimum Illumination**
- EDS5110 / EDS5115
  - Color (IR-Off): 0.5 lux @ F1.5
  - B/W (IR-On): 0 lux @ F1.5
- EDS6115
  - Color (IR-Off): 0.5 lux @ F1.8
  - B/W (IR-On): 0 lux @ F1.8
- EDS5250 / EDS5255 / EDS6255
  - Color (IR-Off): 0.01 lux @ F1.8
  - B/W (IR-On): 0 lux @ F1.8

**IR Illuminator**
- 12 pc IR Illuminator LEDs, Effective up to 32ft/10m
- EDS5110 / EDS5115 / ED6115
  - Up to 32-feet/10 meters
- EDS5250 / EDS5255
  - Up to 85-feet/25 meters
- EDS6255
  - Up to 49-feet/15 meters

**Shutter Time**
- EDS5110 / EDS5115 / ED6115
  - 1/7.5 sec. to 1/24,000 sec.
- EDS5250 / EDS5255 / EDS6255
  - 1/2.5 sec. to 1/10,000 sec.
## Technical Specifications IP Cameras continued

### Physical Interface (All-In-One Cable)

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDS5110 / EDS5115 / EDS5250 / EDS5255</td>
<td>1 x Cable Management Bracket</td>
</tr>
<tr>
<td>EDS6115 / EDS6255</td>
<td>1 x DC Jack (12V/1A)</td>
</tr>
</tbody>
</table>

#### EDS5110 / EDS5115 / EDS5250 / EDS5255
- 1 x RJ45 10/100 Base-T (802.3af PoE)
- 1 x Reset Button (EDS5110 Only)
- 1 x Alarm-In/Out (EDS5110 Only)

#### EDS6115 / EDS6255
- 1 x Micro SD/SDHC Slot/Reset Button
- 1 x Manual Pan/Tilt Lens Tool
- 1 x Manual Pan/Tilt Adjuster
- 1 x Built-In Microphone
- 1 x All-In-One Cable
  - 1 x RJ45 10/100 Base-T (802.3af PoE)
  - 1 x DC Jack (12V/1A)

#### Power Input

- Power Input: 12V/1A/PoE 48V

### Video

#### Compression

- H.264/MPEG4/MJPEG

#### Stream

- 2x Video Streams

#### Frame Rates

- **EDS5110 / EDS5115 / EDS6115**
  - Up to 30 fps at 1280 x 720p

- **EDS5250 / EDS5255 / EDS6255**
  - Up to 30 fps at 1920 x 1080p

#### Image Settings

- Adjustable Image Size, Quality & Bit Rate

#### EDS5110 / EDS5115 / EDS5250 / EDS5255
- WDR (Wide Dynamic Range) Technology

#### EDS6115 / EDS6255
- WDR (Wide Dynamic Range) Technology

### Audio

#### Compression

- G.711

#### Interface

- Built-In Microphone

### Networking

#### Network

- 10/100 Mbps Ethernet, RJ-45
- Power-over-Ethernet (PoE 802.3af class 2)

#### Wireless Standard

- IEEE 802.11b/g/n

#### Antenna

- **EDS5115 / EDS5250 / EDS6115 / EDS6255**
  - 2 dBi High-Gain External Antenna
- **EDS6115 / EDS6255**
  - 3 dBi High-Gain Internal Antenna

### EnGenius DDNS

- Auto NAT Pass Through/UPnP Traversal

### Protocol

- IPv4, TCP, UDP, DHCP, NTP, DNS, DDNS, SMTP, FTP, HTTPS, UPnP, NFS/Samba client, QoS/DCP, RTP, RTSP, 3GPP, PPPoE
- ONVIF Compatible (Profile S)

### Security

- Admin/User Account Level
- Password Protection
- WEP/WPA/WPA2-PSK

### Schedule Recording

#### Alarm & Event/Recording

- Motion/Alarm Input Detection

#### Event Notification

- Email/Push Notification

#### Event Actions

- File Upload to NFS/Samba/FTP/SMT, EnGenius Cloud & Play Audio
- Video Playback (PC/iPhone®/iPad®/Android™)
- EnGenius Simple Smart Recording (Only for EnGenius Cloud Series Routers/Gateways)

### Common Key Features

- **Camera**
  - Progressive Scan CMOS
  - Fixed-Focus Lens
  - Day/Night: Built-In Mechanical IR-Cut Filter

- **Video**
  - High-Definition 1080p at 30fps
  - Compression: H.264/MPEG4/MJPEG
  - Simultaneous Dual-Stream Video
  - Image Settings: Adjustable Image Size, Quality, & Bit Rate
  - Configurable Brightness, Sharpness, Contrast, Saturation, White Balance, & Exposure

- **Network**
  - 10/100 Mbps Ethernet
  - 802.11n Wireless

- **Security**
  - Wireless Password Protection
  - IP Address Filtering
  - User Access Log

- **Alarm & Event/Recording**
  - Alarm: Motion Detection
  - Event Actions: File Upload to FTP, SMB, SMTP, Mobile App., EnGenius Cloud Router
  - Notification: Email, Push Notifications (Mobile Apps Only)
  - Video Playback (PC/iPhone®/iPad®/Android™)
  - EnGenius Smart Recording (Only for EnGenius Cloud Series Routers Only)

- **Mobile Apps Supported**
  - iPhone/iPad/Android Devices

### Video Buffer

- 5-Seconds Pre-Alarm & Post-Alarm

### Mobile Apps Supported

- iPhone/iPad/Android Devices

### Video Management Software

- Viewing System Requirements

### Operating System


### Web Browsers

- IE, Safari, Chrome, Firefox, Opera
Technical Specifications IP Cameras continued

View Clients
Live Viewing For up to 5 Clients

Environmental & Physical

Temperature Range

EDS5110 / EDS5115 / EDS5250 / EDS5255
Operating: -4° F to 122° F (-20°C to 50° C)
Storage: -40º F to 140º F (-40º to 60º C)

EDS6115 / EDS6255
Operating: 32° F to 122° F (0°C to 50° C)
Storage: -4º F to 140º F (-20º to 60º C)

Humidity (non-condensing)

EDS5110 / EDS5115 / EDS5250 / EDS5255
Operating: 80% or less
EDS6115 / EDS6255
Operating: 80% or less

Waterproof

EDS5110 / EDS5115 / EDS5250 / EDS5255
iP66-Rated Enclosure

Dimensions & Weights

EDSS110 / EDSS115 / EDSS250 / EDSS255

Device with Bracket
Weight: .69 lbs. (312 g)
Length: 8.2” (208 mm)
Width: 2.5” (63 mm)
Height: 2.9” (73 mm)

EDS6115 / EDSS6255
Weight: 0.50 lbs. (226 g)
Width: 2.57” (65 mm)
Length: 3.77” (95 mm)
Height: 2.57” (65 mm)

Packaging

EDSS110 / EDSS115 / EDSS250 / EDSS255
Weight: 1.74 lbs. (789 g)
Width: 5.7” (144 mm)
Length: 10.82” (274 mm)
Height: 4.72” (119 mm)

EDS6115 / EDSS6255
Weight: 1.4 lbs. (65.3 g)
Width: 3.7” (93 mm)
Length: 10.3” (261 mm)
Height: 5.7” (144 mm)

Package Contents:

EDS5110 / EDS5115 / EDSS250 / EDSS255
Bullet IP Camera
Mounting Kit
RJ-45 Ethernet Cable (10/100 BASE-T 802.3af PoE)
Quick Installation Guide
QR Code Label
Terminal Block for Alarm Input/Output (EDS5110 Only)
Power Adapter
EDSS115
Detachable Antenna
EDS6115
1MP Wi-Fi Dome IP Camera
Mounting Kit
RJ-45 Ethernet Cable (10/100 Base-T 802.3af PoE)
Quick Installation Guide
QR Code Label
Power Adapter
CD with User Manual

Certifications
FCC, CE

Warranty
1 Year

EDS5110 / EDS5250 IR Bullet IP Camera

Cable Management Bracket
Built-In Lens
IR LEDs
Digital-In/Out (EDS5110 Only)
Reset / Reboot Button (EDS5110 Only)
DC Jack
RJ-45 with 802.3af PoE

View Clients
Live Viewing For up to 5 Clients

Environmental & Physical

Temperature Range

EDS5110 / EDS5115 / EDS5250 / EDS5255
Operating: -4° F to 122° F (-20°C to 50° C)
Storage: -40º F to 140º F (-40º to 60º C)

EDS6115 / EDS6255
Operating: 32° F to 122° F (0°C to 50° C)
Storage: -4º F to 140º F (-20º to 60º C)

Humidity (non-condensing)

EDS5110 / EDS5115 / EDS5250 / EDS5255
Operating: 80% or less
EDS6115 / EDS6255
Operating: 80% or less

Waterproof

EDS5110 / EDS5115 / EDS5250 / EDS5255
iP66-Rated Enclosure

Dimensions & Weights

EDSS110 / EDSS115 / EDSS250 / EDSS255

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RJ-45 Ethernet Cable (10/100 Base-T 802.3af PoE)
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Power Adapter
CD with User Manual

Certifications
FCC, CE

Warranty
1 Year

EDS5110 / EDS5250 IR Bullet IP Camera

Cable Management Bracket
Built-In Lens
IR LEDs
Digital-In/Out (EDS5110 Only)
Reset / Reboot Button (EDS5110 Only)
DC Jack
RJ-45 with 802.3af PoE
EDS5115 Wi-Fi Bullet IP Camera

- Cable Management Bracket
- Removable Antenna
- Built-In Lens
- IR LEDs
- Digital-In/Out
- Reset / Reboot Button
- RJ-45 with 802.3af PoE
- DC Jack
- Built-In Mic
- Removable Antenna
- IR LEDs
- Built-In Lens
- Digital-In/Out
- Reset / Reboot Button
- RJ-45 with 802.3af PoE
- DC Jack

EDS6115 Wi-Fi Mini Dome IP Camera

- Manual Pan/Tilt Lens Tool
- Built-In Lens
- IR LEDs
- Built-In Mic
- Micro SDHC Slot/Reset Button
- WPS, Reboot, Reset
- DC Jack
- RJ-45 with 802.3af PoE
### EnGenius Wireless IP Surveillance System

<table>
<thead>
<tr>
<th>Models</th>
<th>EDS8012</th>
<th>EDS8015</th>
<th>EDS8022</th>
<th>EDS8025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standards</td>
<td>802.11b/g/n</td>
<td>802.11a/n</td>
<td>802.11b/g/n</td>
<td>802.11a/n</td>
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<tr>
<td>Frequency</td>
<td>2.4 GHz</td>
<td>5 GHz</td>
<td>2.4 GHz</td>
<td>5 GHz</td>
</tr>
<tr>
<td>Data Rates</td>
<td>300 Mbps</td>
<td>300 Mbps</td>
<td>300 Mbps</td>
<td>300 Mbps</td>
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<tr>
<td>Radio Chains/Streams</td>
<td>2 x 2</td>
<td>2 x 2</td>
<td>2 x 2</td>
<td>2 x 2</td>
</tr>
<tr>
<td>RF Output Power</td>
<td>26 dBm</td>
<td>26 dBm</td>
<td>26 dBm</td>
<td>26 dBm</td>
</tr>
<tr>
<td>Ingress Protection (AP/Camera)</td>
<td>55/66</td>
<td>55/66</td>
<td>55/66</td>
<td>55/66</td>
</tr>
<tr>
<td>Fast Ethernet (10/100 Mbps)</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Secondary Ethernet Port</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Integrated Antennas</td>
<td>13 dBi</td>
<td>19 dBi</td>
<td>13 dBi</td>
<td>19 dBi</td>
</tr>
<tr>
<td>Camera</td>
<td>1 MP</td>
<td>1 MP</td>
<td>1 MP</td>
<td>1 MP</td>
</tr>
<tr>
<td>IR Illuminators</td>
<td>12 pcs</td>
<td>12 pcs</td>
<td>12 pcs</td>
<td>12 pcs</td>
</tr>
<tr>
<td>F.O.V.</td>
<td>60° (diagonal)</td>
<td>60° (diagonal)</td>
<td>120° (diagonal)</td>
<td>120° (diagonal)</td>
</tr>
</tbody>
</table>

### Technical Specifications Long-Range Wireless Outdoor Access Point/Client Bridge

#### RF Frequency Band
- **EDS8012 / EDS8022**: 2.4 GHz
- **EDS8015 / EDS8025**: 5 GHz

#### Standard
- **EDS8012 / EDS8022**: 802.11b/g/n
- **EDS8015 / EDS8025**: 802.11a/n

#### Physical Interface
- **AP Device**
  - 2 x 10/100 BASE-T Ethernet Ports
  - 1 x Port supports 24V Proprietary PoE Input
  - 1 x Port Supports Extension of an Internet Signal
  - 1 x Reset Button
- **LED Signal**
  - 1 x Power
  - 1 x LAN 1
  - 1 x LAN 2
  - 1 x WLAN

#### Antenna
- **Internal High-Gain Directional Antenna**

**EDS8012 / EDS8022**
- 2.4 GHz (P1)
  - Average Antenna Gain: 13 dBi
  - Polarization: Linear
  - Azimuth Beam Width: 67°
  - Elevation Beam-Width: 33°
  - VSWR: 1.20

**EDS8015 / EDS8025**
- 5 GHz (P1)
  - Average Antenna Gain: 19 dBi
  - Polarization: Linear
  - Azimuth Beam Width: 30°
  - Elevation Beam-Width: 18°
  - VSWR: 1.20

**EDS8012 / EDS8022 continued**
- 2.4 GHz (P2)
  - Peak Antenna Gain: 13 dBi
  - Polarization: Linear
  - Horizontal Beam Width: 61°
  - Elevation Beam-Width: 35°
  - VSWR: 1.20

**EDS8015 / EDS8025**
- 5 GHz (P2)
  - Peak Antenna Gain: 19 dBi
  - Polarization: Linear
  - Horizontal Beam Width: 18°
  - Elevation Beam-Width: 30°
  - VSWR: 1.20

#### Operation Modes
- **Access Point**
- **Client Bridge**
- **WDS Bridge**

#### Radio I
- **EDS8012 / EDS8022**: 11b/g/n: 2.412-2.472 GHz
- **EDS8015 / EDS8025**: 11a/n: 5.180-5.825 GHz

#### Data Rate
- Up to 300 Mbps

#### Transmit Power
- Up to 26 dBm
- Up to 400 mW
- Max Power is limited by regulatory power

#### Supported Radio Technologies
- **EDS8012 / EDS8022**
  - 802.11b: Direct-Sequence Spread-Spectrum (DSSS)
  - 802.11n: Orthogonal Frequency-Division Multiplexing (OFDM)
  - 802.11n: with 5/10/20/40 MHz Channel Width
  - 802.11n: with 5/10/20 MHz Channel Width
  - 802.11b/g: with 5/10/20 MHz Channel Width
- **EDS8015 / EDS8025**
  - 802.11a/n: Orthogonal Frequency-Division Multiplexing (OFDM)
  - 802.11n with 5/10/20/40 MHz Channel Width
  - 802.11a with 5/10/20 MHz Channel Width
  - 802.11a/n: BPSK, QPSK, 16-QAM, 64-QAM

#### Supported Data Rates (Mbps)
- **EDS8012 / EDS8022**
  - 802.11b: 1, 2, 5.5, 11
  - 802.11g: 6, 9, 12, 18, 36, 48, 54
  - 802.11n: 6.5-300 (MCS0 to MCS15)
Technical Specifications Long-Range Wireless Outdoor Access Point/Client Bridge continued

**QoS**
Compliant with IEEE 802.11e Standard
Save Configurations as Default
Saves the customized configuration as the default value for different customer demands

**Client Traffic Status**
Reports various information in a timely manner as required by the administrator

**Control Features**
RADIUS Accounting
Helps operators to offload 3G to Wi-Fi seamlessly

**CLI Comments Support**
Settings Vary by Regulatory Domains

**Distance Control (Ack Timeout)**
Multicast Supported

**Wi-Fi Scheduler**
Sets the Schedule for rebooting the device

**Security continued**
Wireless STA (Client) Connection List
Reports various information in a timely manner as required by the administrator

**Environmental & Physical**
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Storage: 22 °F to 176 °F (-30 °C to 80 °C)

**Humidity (non-condensing)**
Operating: 90% or less
Storage: 90% or less

**Waterproof**
IP55-Rated Enclosure

**Certifications**
FCC, CE

**Dimensions & Weights**
AP/Client Bridge Device
Weight: 1.03 lbs. (0.47kg)
Depth: 7.4” (190mm)
Height: 1.5” (38mm)

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Technical Specifications 1-MP and 2-MP Day/Night Bullet IP Surveillance Camera

**Camera**
Image Sensor
**EDS8012 / EDS8015** 1/4” 1-Megapixel Progressive Scan CMOS Image Sensor
**EDS8022 / EDS8025** 1/2.7” 2-Megapixel Progressive Scan CMOS Image Sensor

**Lens**
Fixed Board Lens
**EDS8012 / EDS8015** Fixed-Focus, 4 mm @ F1.5
**EDS8022 / EDS8025** Fixed-Focus, 2.8 mm @ F1.8

**F.O.V.**
**EDS8012 / EDS8015** 62° (diagonal)
**EDS8022 / EDS8025** 120° (diagonal)

**Day/Night**
Removable Mechanical IR-Cut Filter

**Minimum Illumination**
**EDS8012 / EDS8015**
Color (IR-Off): 0.5 lux @ F1.5
B/W (IR-On): 0 lux @ F1.5
**EDS8022 / EDS8025**
Color (IR-Off): 0.1 lux @ F1.8
B/W (IR-On): 0 lux @ F1.8

**IR Illuminator**
**EDS8012 / EDS8015**
12 pcs IR Illuminator LEDs, effective up to 32-ft./10m
**EDS8022 / EDS8025**
12 pcs IR Illuminator LEDs, effective up to 82-ft./25m

**Shutter Time**
**EDS8012 / EDS8015**
1/7.5 sec. to 1/24,000 sec.
**EDS8022 / EDS8025**
1/2.5 sec. to 1/10,000 sec.

**Physical Interface (All-in-One Cable)**
1 x Cable Management Bracket
1 x All-in-One Cable
1 x RJ45 10/100 Base-T (802.3af PoE)
1 x Reset Button
1 x Alarm-In/Out
1 x DC Jack (12V/1A)
Technical Specifications 1-MP Day/Night Bullet IP Surveillance Camera continued

**Power Input**
- Power Input: 12V/1A, PoE 48V

**Video**
- Compression: H.264/MPEG4/MJPEG
- Stream: 2x Video Streams

**Frame Rates**
- EDS8012 / EDS8015: Up to 30 fps at 1280 x 720
- EDS8022 / EDS8025: Up to 30 fps at 1920 x 1080

**Image Settings**
- Adjusted Image Size, Quality & Bit Rate
- Configurable Brightness, Sharpness, Contrast, Saturation, Exposure
- AGC/AWB/AES
- Flip & Mirror
- Time Stamp & Text Caption Overlay
- Manual/Auto Day & Night Mode
- WDR (Wide Dynamic Range) Technology

**Networking**
- Network:
  - 10/100 Mbps Ethernet, RJ-45
  - Power-over-Ethernet (PoE 802.3af class 2)
  - EnGenius DDNS
  - Auto NAT Pass Through/UPnP Traversal

**Protocol**

**ONVIF Compatible (Profile S)**

**Security**
- Admin/User Account Level

**Alarm & Event/Recording**
- Event Trigger: Motion/Alarm-In Detection
- Event Notification: Email/Push Notifications
- Event Actions: File Upload to NFS/SAMBA/FTP/SMTP, EnGenius Cloud & Play Audio
- Video Playback (PC/iPhone®/Android™)
- EnGenius Simple Smart Recording (Only for EnGenius Cloud Series Routers/Gateways)

**Video Buffer**
- 5-Seconds Pre-Alarm/Post-Alarm

**Schedule Recording**
- Mobile Apps Supported: iPhone/iPad/Android Devices

**Video Management Software**
- Viewing System Requirements
- Web Browsers: IE, Safari, Chrome, Firefox, Opera
- View Clients: Live Viewing For up to 5 Clients

**Environmental & Physical**
- Temperature Range:
  - Operating: -4° F to 122° F (-20°C to 50° C)
  - Storage: -40° F to 140° F (-40°C to 60° C)
- Humidity (non-condensing): Operating: 80% or less

**Waterproof**
- IP66-Rated Enclosure

**Dimensions & Weights**
- IP Camera Device with Bracket
  - Weight: .69 lbs. (.312 kg)
  - Length: 8.2” (210mm)
  - Width: 2.5” (65mm)
  - Height: 2.9” (75mm)

**Package Contents:**
- 1-Megapixel Bullet IP Camera
- 12V/1A Power Adapter
- Mounting Kit
- RJ-45 Ethernet Cable
- Outdoor AP/Bridge
- PoE Injector (EPE-1212) with Power Adapter (24V/ 6A)
- Pole/Wall Mounting Kit
- Mounting Screw Set
- Quick Installation Guide

**Certifications**
- FCC, CE

**Warranty**
- 1 Year

---

### Compatible Products

<table>
<thead>
<tr>
<th>Products</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnStation2</td>
<td>Long-Range Wireless 2.4 GHz Outdoor AP/Bridge</td>
</tr>
<tr>
<td>EnStation5</td>
<td>Long-Range Wireless 5 GHz Outdoor AP/Bridge</td>
</tr>
<tr>
<td>EDS5110</td>
<td>1 MP Day/Night Bullet IP Surveillance Camera</td>
</tr>
<tr>
<td>EDS5250</td>
<td>2 MP Day/Night Bullet IP Surveillance Camera</td>
</tr>
</tbody>
</table>
Wireless IP Surveillance System

Outdoor AP/Bridge

- UV Resistant Cover
- LED Indicators (Power, Wireless & LAN Status)
- 360° 3D-Array Rotation
- Sealing Nut
- Wall / Pole Mounting Bracket
- Port Cover
- Reset Button
- Ethernet & Data Port (PoE-Pass Through Only EnStationAC)
- PoE Port
- Bracket
- Rotating Hinge
- Lock Washer
- Sealing Nut
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EnGenius Technologies | 1580 Scenic Ave. Costa Mesa, CA 92626
Email: partners@engeniustech.com | Phone: 888-735-7888 | Website: engeniustech.com
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