



EDS8012 EDS8015

Wireless IP Surveillance System

2.4 GHz and 5 GHz Extreme Long-Range Wireless Surveillance

EnGenius Wireless IP Surveillance System provides long-range point-topoint and point-to-multipoint surveillance coverage for expansive venues, transmitting streaming video over great distances – up to 5-miles point-topoint at high speeds. The system is ideal for monitoring large indoor and outdoor environments such as parking lots, shopping malls, warehouses and ranches, even in harsh weather.

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



Features

- > High-gain antennas extend wireless network to 5-miles point-to-point
- > 802.11n wireless speeds to 300 Mbps; to 90 Mbps at ½ mile for fast video streaming
- > Wide angle 1MP lens captures high-res images over broader areas
- Removable IRC filter & built-in IR LEDs for monitoring in low light or total darkness up to 32-ft/10m
- > AP's 360-degree 3-axis pivoting arm locks for precise alignment
- > Point-to-point & point-to-multipoint surveillance over large distances
- > Up to 400mW transmit power sends wireless signals long-range
- > IP-rated waterproof & dustproof casing withstands harsh environments
- $^{>}$ PoE support & included injector extends power to unwired areas up to 328 ft./100m
- > Flexible deployment modes include AP, Client Bridge or WDS Bridge
- > Manage lighting & digitally adjust exposure with WDR Technology
- H.264 Video provides 1280x720 HD viewing performance with less bandwidth
- Camera supports ONVIF standard for easy integration with 3rd party hardware & software
- Includes free 16-channel Video Management Software with live monitoring, record, 30 fps playback & quick search
- Integrates with 3rd party digital alarms, sensors or other electronic devices for real-time event warnings
- > Receive alarm alerts directly to your mobile device for rapid response
- > Control, monitor & configure AP with EZ Controller[™] Software

Wireless IP Surveillance System is ideal for deployment in these venues:

- > College Campuses
- > Corporate Campuses
- > Shopping Malls
- > Resort Properties

- > Parks & Campgrounds
- > Military Bases
- > Warehouse Operations
- > Stadiums & Arenas

- > Medical Centers
- > Luxury Homes & Estates
- > Farms & Ranches

Eyes on Everywhere

Security concerns top the agenda of many organizations today. But 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 also be saturated with a spectrum of RF signals.

EnGenius Wireless IP Surveillance System is specifically designed and engineered to extend the network over great distances and to substantially extend wireless transmissions range, delivering streaming video at stable, robust wireless speeds in challenging point-to-point environments that are often difficult to reach.



Strong Wireless Performance Over Broad Distances

Robust point-to-point and point-to-multipoint 802.11n wireless performance of up to 300 Mbps on both 2.4 GHz (EDS8012) and the 5 GHz (EDS8015) frequency band, and 90 Mbps at ½ mile, creates a dependable surveillance network across great distances.

Longer connectivity distances, up to 5-miles can be achieved when two Outdoor APs of the same frequency band are paired together in a Point-to-Point (PtP) deployment, aligning their dish-shaped antennas to face each other.

Point-to-Point & Point-to-Multipoint Surveillance

Ideal for overcoming the challenges posed by hard-to-reach installations, those laid out asymmetrically or over wide areas, obstructed by buildings, or congested with heavy RF traffic.

The Wireless IP Surveillance System is an affordable alternative to conventional wired surveillance deployments; this versatile, reliable and highperforming security system is ideal for creating or extending surveillance coverage over long-ranges.

Flexible Deployment Modes Based on Needs

EDS8015 **Point-to-Point** Bridge. Connect two EnStations at up to 5 miles **Point-to-Multipoint** Add on to an existing network using Client Bridge Mode Additional EnStation5 EDS8015 Ы EDS8012

Easily configure the Wireless IP Surveillance AP to accommodate specific modes based on user needs including Access Point, Client Bridge or WDS

Powerful Surveillance

Tethering a series of EnGenius 1-Megapixel Day/Night HD Bullet IP Surveillance Cameras to the AP gives you "eyes on" places you might not otherwise see—no matter how far away, with significantly better results than traditional non-tethered wireless surveillance setups.

The IP Camera's wide angle 1 MP lens provides 1280 x 720 HD performance, clarity and versatility needed to monitor even the largest properties.



Constant Vigilance

Removable IRC filter and built-in IR LED illuminators offer clear image quality day or night in low light or total darkness up to 32-ft./10 m.



Managing varying lighting conditions and adjusting the digital exposure is made easy with Wide Dynamic Range Technology (WDR), providing clear images even in highly backlit environments.



Motion & Alarm Detection Triggers Provide Instant Proof

Motion and alarm-in detection capabilities can be set to alert staff, giving them the irrefutable video evidence needed to initiate a recording of the event or, if necessary, call the authorities.

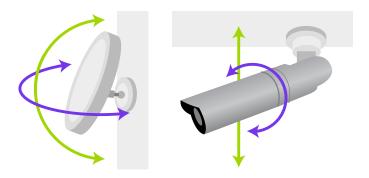
Excellent Performance in Harsh Environments

IP-rated waterproof and dustproof casing ensures both the AP (IP55rated) and IP Camera (IP66-rated) are able to withstand harsh climates as well as indoor industrial environments such as manufacturing plants and warehouses where temperature is a factor.



Adjustable 3-Axis Pivoting

360-Degree, 3-axis pivoting arm on AP locks for precise alignment and includes a pole mounting kit.



IP Camera features 2-axis pivot mechanism with cable management bracket for a clean professional look while securing wiring from the elements.

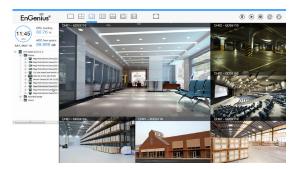
Flexible Power Options with Power-over-Ethernet (PoE) Support

The Wireless IP Surveillance System supports PoE, which allows the AP to be powered via the included proprietary PoE injector and the IP Camera to be powered and connected directly via an Ethernet cable to an 802.3af-capable switch.

PoE is especially useful for deployments where a power outlet may be scarce or unavailable such as in remote parking lots, under the eaves of roofs, or high atop poles.

Monitor, Record & Search with 16-Channel Video Management Software (VMS)

Provide maximum video coverage for even the most far-reaching venues. Monitor up to 16 camera streams in real-time with the included Video Management Software.



- > Optional split-screen camera view
- > Monitor up to 16 cameras simultaneously
- > View live monitoring, record video and playback options
- > Quick search of archived video via time bar

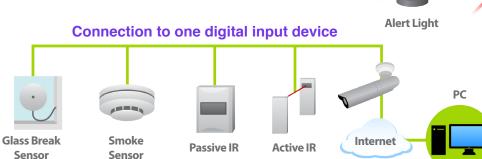


> At-a-glance floor plan view

- > Visible monitoring coverage for easy deployment
- > Quick view monitor on floor plan with the click of a mouse

Alarm Alerts

Intergrate 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.



Push Notifications

View, record and receive triggered event alerts directly to your smartphone or tablet for instant notification of events-in-progress with free downloadable App for Android and iOS.

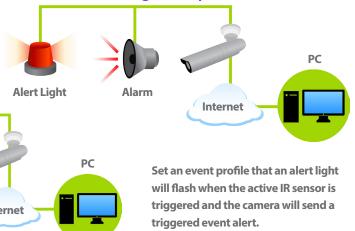


Simplified AP Setup and Maintenance

With EnGenius' EZ Controller™ Software, the AP units that are deployed on rooftops or other difficult to access locations are easily reconfigured to a different operational mode or upgraded remotely without having to manually reconnect to them or re-install them onsite.



Connection to one digital output device



	ECeñe Con Port	Indenie (Carlos Carlos
Models	EDS8012	EDS8015
Standards	802.11b/g/n	802.11a/n
Frequency	2.4 GHz	5 GHz
Data Rates	300 Mbps	300 Mbps
Radio Chains/Streams	2 x 2	2 x 2
RF Output Power	26 dBm	26 dBm
Ingress Protection (AP/Camera)	55/66	55/66
Fast Ethernet (10/100 Mbps)		•
Secondary Ethernet Port		•
Integrated Antennas	13 dBi	19 dBi
Camera	1 MP	1 MP
IR Illuminators	12 pcs	12 pcs

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

RF Frequency Band
EDS8012 2.4 GHz
EDS8015 5 GHz
Standard
EDS8012 IEE 802.11b/g/n
EDS8015 IEEE 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
2.4 GHz (P1)
- Average Antenna Gain: 13 dBi
- Polarization: Linear
- Azimuth Beam Width: 67°
- Elevation Beam-Width: 33°
- VSWR: 1:2.0

EDS8012 continued
2.4 GHz (P2)
- Peak Antenna Gain: 13 dBi
- Polarization: Linear
- Horizontal Beam Width: 61°
- Elevation Beam-Width: 35°
- VSWR: 1:2.0
EDS8015
5 GHz (P1)
- Average Antenna Gain: 19 dBi
- Polarization: Linear
- Azimuth Beam Width: 30°
- Elevation Beam-Width: 18°
- VSWR: 1:2.0
5 GHz (P2)
- Peak Antenna Gain: 19 dBi
- Polarization: Linear
- Horizontal Beam Width: 18°
- Elevation Beam-Width: 30°
- VSWR: 1:2.0

Operation Modes

Access Point	
Client Bridge	
WDS Bridge	

Radio I

EDS8012	11b/g/n: 2.412-2.472 GHz
EDS8015	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
802.11b: Direct-Sequence Spread-Spectrum (DSSS)
802.11n: Orthological 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
802.11a/n: Orthological 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
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

Supported Data Rates (Mbps) continued	Oos
EDS8015	Con
802.11a: 6, 9, 12, 18, 36, 48, 54	Sav
802.11n: 6.5~300 (MCS0 to MCS15)	
Power	Save for c
Power Source (PoE Injector):	
- 24V/.6A Proprietary Compliant Source	Clie
- Active Ethernet (Power over Ethernet, PoE)	Rep
	requ
Power Consumption	
EDS8012 7.2 W	Con
EDS8015 7 W	RAD
	Help
Management	
Auto Channel Selection	CLI
- Settings varies by Regulatory Domains	Sett
SSIDs	Dist
BSSID Supports Four (4) SSIDs	Mul
VLAN Tagging	Wi-
Independent VLAN settings can be enabled/disabled	Sets
Any packet that enters the device without a VLAN tag will	
have a VLAN tag inserted via a PVID (Ethernet Port VID)	Sec
VLAN Pass-through over WDS Bridge	WEF
	WPA
	Llide

SNMP & MIB

v1/v2c/v3 Support MIB I/II and Private MIB s

mpliant with IEEE 802.11e Standard

ve Configurations as Default

ves the customized configuration as the default value different customer demands

ent Traffic Status

ports various information in a timely manner as uired by the administrator

ntrol Features

DIUS Accounting lps operators to offload 3G to Wi-Fi seamlessly

Comments Support

tings vary by Regulatory Domains

stance Control (Ack Timeout)

Iticast Supported

Fi Scheduler

ts the Schedule for rebooting the device

curity

P Encryption: 64/128/152 bit PA/WPA2 Enterprise (WPA-EAP using AES) Hide SSID in Beacons MAC Address Filtering (up to 50 addresses) 802.1x Authenticator

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

Height: 1.5" (38mm)

AP/Client Bridge Device Weight: 1.03 lbs. (0.47kg) Depth: 7.4" (190mm)

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

Camera
Image Sensor
14" 1-Megapixel Progressive Scan CMOS Image Sensor
Lens
Fixed Board Lens
Fixed-Focus, 4 mm @ F1.5
F.O.V.
62° (diagonal)
Day/Night
Removable Mechanical IR-Cut Filter
Minimum Illumination
Color (IR-Off): 0.5 lux @ F1.5
B/W (IR-On): 0 lux @ F1.5
IR Illuminator
12 pcs IR Illuminator LEDs, effective up to 32-ft./10m
Shutter Time
1/7.5 sec. to 1/24,000 sec.

Physical Interface (All-in-One Cable)
1 x RJ45 10/100 Base-T (802.3af PoE)
1 x Terminal Block for Digital Input/Output
1 x Reset/Reboot Button
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

Up to 30 fps at 1280 x 720

Image Settings

Adjustable Image Size, Quality & Bit Rate

Auto NAT Pass Through/UPnP Traversal

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

Protocol	Vid
IPv4, TCP, UDP, DHCP, NTP, DNS, DDNS, SMTP, FTP, HTTP,	Vie
UPnP, NFS/Samba client, QoS/DSCP, RTP, RTSP, 3GPP, PPPoE	Ор
ONVIF Compatible (Profile S)	Mic
	We
Security	IE, S
Admin/User account level	Vie
	Live
Alarm & Event/Recording	
Event Trigger	Env
Motion/Alarm-In Detection	Ter
Event Notification	Op
Email/Push Notifications	Sto
Event Actions	
File Upload to NFS/SAMBA/FTP/SMT, EnGenius Cloud &	Hu
Play Audio	Op
Video Playback (PC/iPhone®/Android™)	
EnGenius Simple Smart Recording (Only for EnGenius	Wa
Cloud Series Routers/Gateways)	IP6
Video Buffer	
5-seconds pre-alarm/post-alarm	Din
Schedule Recording	IP C
Mobile Apps Supported	We
iPhone/iPad/Android devices	Len
	Wic

Video Management Software

Tiewing System Requirements
Deparating System
Alicrosoft Windows XP/2000/2003/Vista/2007/2008
Veb Browsers
E, Safari, Chrome, Firefox, Opera
Fiew Clients
E viewing for up to 5 Clients
E

Storage: -40° F to 140° F (-40° 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)

Packaging	
Weight: 4.14 lbs. (1.88kg)	
Width: 9.8" (249mm)	
Length: 14" (363mm)	
Height: 6.1" (155mm)	

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	

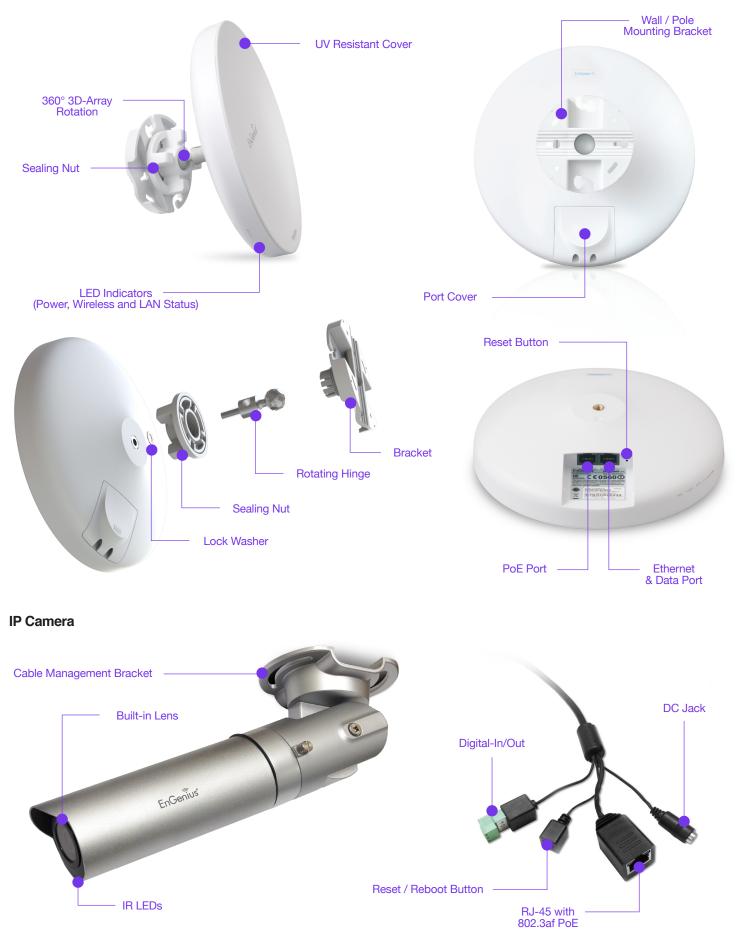
Warranty

1 Year

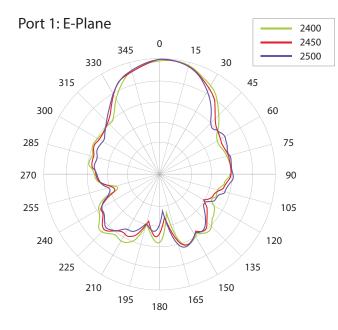
Compatible Products

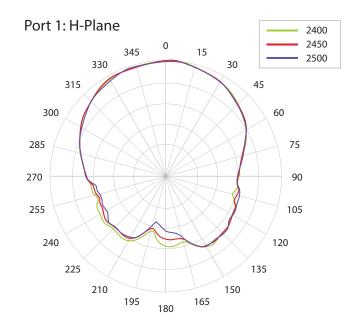
Products	Product Description
EnStation2	Long-Range Wireless 2.4 GHz Outdoor AP/Bridge
EnStation5	Long-Range Wireless 5 GHz Outdoor AP/Bridge
EDS5110	1 MP Day/Night Bullet IP Surveillance Camera

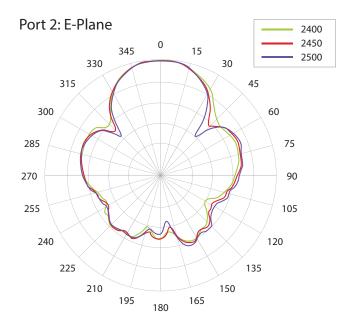
Outdoor AP/Bridge

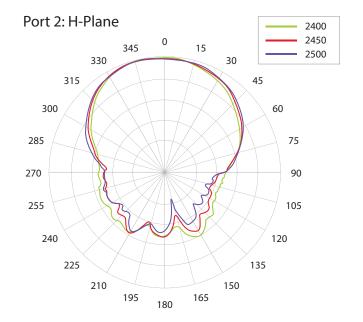


EDS8012 Antenna Radiation Patterns

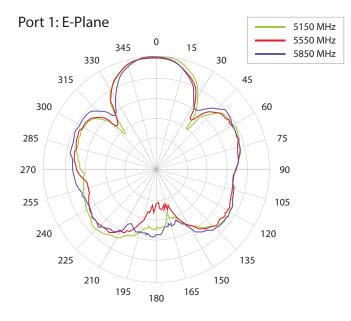


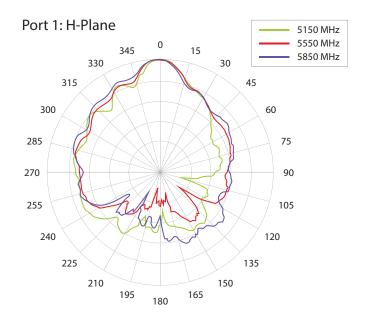


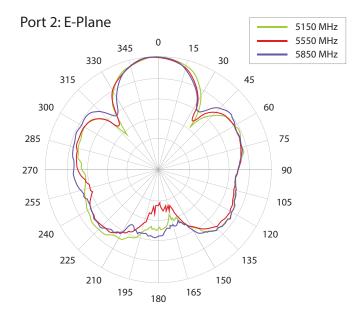




EDS8015 Antenna Radiation Patterns







5550 MHz 5850 MHz You Tube ┝

Port 2: H-Plane

EnGenius Technologies | 1580 Scenic Ave. Costa Mesa, CA 92626 Email: partners@engeniustech.com | Phone: 888 - 735 - 7888 | Website: engeniustech.com

EnGenius

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5150 MHz