



EWS1025CAM

Mesh Surveillance System

Feature-Rich Hybrid 11ac Mesh AP Camera

The Neutron Mesh Surveillance System is a dual-functional 11ac Managed Wireless Access Point with mesh capabilities and an integrated 2-MP IP Camera featuring night vision and email alerts. This space-saving hybrid offers one installation for both an AP and IP camera, simplifying wiring with self-healing mesh networking and management via controller or ezMaster™ Network Management Software.

The Neutron Mesh Surveillance System is the first of its kind. Merging the capabilities of both an IP camera and a high-speed wireless access point, the System improves deployment options and the IP Camera's performance by combining technologies.

Ideal for overcoming installation-wiring hurdles in retrofit applications, the System utilizes wireless mesh to optimize connections automatically between multiple EWS1025CAMS and other supported Neutron devices.

Features & Benefits:

- Dual-Functional Mesh 11ac Wireless Access Point & Integrated IP Surveillance Camera
- Simplifies Deployments, Reduces Install Time & Costs
- 11ac Wireless Speeds to 867 Mbps (5 GHz); to 300 Mbps (2.4 GHz)
- Operate as a Stand-Alone or Manage via Neutron Switches or ezMaster™ Software
- Centrally Manage, Monitor & Troubleshoot Network via ezMaster
- Wide, 120° 2-MP Lens Captures 1920x1080P Images over a Broader Field
- 802.3at/af PoE Extends Power to Unwired Areas Up to 328
 Feet
- Built-In IR Illuminators Ensure Night Visibility to 65 Feet
- Enhanced Wireless Range & Coverage with High Transmit Power
- Remotely View Cameras & Receive Notifications with enViewer™ App
- No AP Licensing or Annual Subscription Fees for ezMaster
- Includes 16-Channel VM Software with Live Monitoring



Dual-Purpose System

The Mesh Surveillance System provides a dual-functional, aesthetically pleasing option for large residences, commercial, retail, and anywhere both Wi-Fi and surveillance are desired. Utilize the EWS1025CAM's mesh networking to provide these resources in entryways, hallways, stairwells, and lobbies and in retrofit applications such as landmark buildings, museums, and locations where long wire runs are prohibitive.

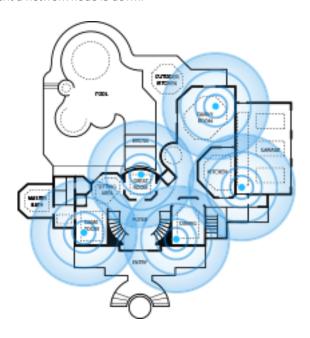


Increase Network Speed & Capacities

The onboard access point features high-performance 2x2 11ac dual-band Wi-Fi speeds ensuring smooth HD video delivery and ultra-fast file loading. The System supports greater user capacities while efficiently steering 5 GHz-capable network traffic off the heavily congested 2.4 GHz frequency band.

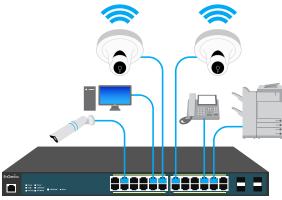
Wireless Mesh Flexibility

Easily create an adaptive mesh network when connecting multiple EWS1025CAMs or other Neutron mesh-compatible APs, and extend wireless access to larger areas without running cable to every unit. Employ mesh's auto-sensing technology to add devices quickly, optimize routes between mesh units, and self-heal in the event a network node is down.



Reduce Wiring Challenges with Power-over-Ethernet

The System is designed to reduce wiring challenges and installation time and costs with a single cable run. Power each unit via one Ethernet cable with 802.3at/af Power-over-Ethernet (PoE) up to 325 feet from the power source or with a DC power input.



Secure Guest Networks & Workgroups

Establish and secure Guest Networks and block access to central computers and servers. Limit Internet resources for visiting guests and ensure your network is secure from sophisticated Trojans and malware that can use guest's mobile devices to attack your network.

Highly Defined Images & Clear Day/Night Viewing

The EWS1025CAM features a 2-MP Progressive Scan CMOS sensor and 1920 x1080P HD video, which ensures precise image details and smooth video playback. With its powerful, 24-piece built-in IR LED illuminators, the Mesh Surveillance System transmits clear, distinct images day or night in low light or total darkness up to 65 feet.



Motion & Audio Detection Triggers Provide Instant Proof

To immediately capture suspicious activity, the EWS1025CAM supports motion and audio detecting-triggers, to automatically activate a recording of the covered area ensuring all activity is monitored. Its built-in microphone can hear events giving you a more accurate representation of a situation.

EnViewer™ Mobile App

Remote Viewing & Push Notifications

Remotely view and monitor up to four (4) cameras simultaneously and instantly record video with EnGenius' free EnViewer™ Mobile App. View, record and receive motion or audio-triggered event alerts directly to your mobile device for instant notification of events-in-progress.



Zone Coverage

Set precise zone coverage within designated areas to record activity or detect motion near entryways or around windows within the camera's field of view. Customize sensitivity in each zone for greater control and set motion and audio detection mobile alerts.

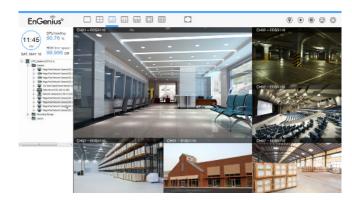


Video Management Software (VMS)

Monitor Up to 16 Cameras Simultaneously

EnGenius' 16-Channel Video Management Software is included free with the Neutron Mesh Surveillance System. Streamline camera setup and configuration with the VMS' Discovery Tool. Import building floor plans to create a camera location map through eMap and easily monitor the entire camera network regardless of its location. Additional features:

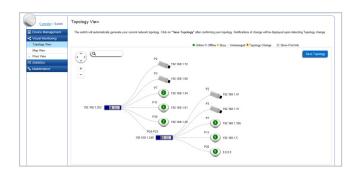
- Optional Split-Screen Camera Views
- Monitor Up to 16 Cameras Simultaneously
- View Live Monitoring, Record Video & Playback Options
- Quickly Search Archived Video via Time Bar
- Schedule Recordings



Network Management

Manage Up to 50 APs with Neutron Managed Switches

Neutron Switches also act as wireless controllers capable of managing up to 50 Neutron EWS1025CAMs and other Neutron EWS Access Points. In controller mode, IT administrators have access to all connected Neutron devices and a full array of Layer 2 management tools. Choose between PoE+ and non-PoE switch models with flexible deployment and management options.





Network Management Software

Flexible Distributed Network Management

EzMaster Network Management Software expands the flexibility and scalability of Neutron Series EWS Managed Access Points and Switches.

EzMaster allows organizations, such as branch offices and managed service providers, to easily and affordably deploy, monitor and manage a large number of Neutron APs, Controller Switches and Managed Smart Switches across geographically diverse properties. Centrally manage an unlimited number of independent distributed networks in the same subnet or cross-subnet from a single, at-a-glance network dashboard, no matter where they're located.

Deploy ezMaster locally, remotely or via a Cloud-based service with or without an onsite controller.

Powerful, Scalable Options

EzMaster scales with your growing business needs. Manage 1,000+ Neutron EWS Access Points and Switches and 10,000+ concurrent users. Together, Neutron APs, Switches and ezMaster provide a flexible, fully integrated solution with redundancy support and future expandability for broader device connectivity.



System Requirements

Recommended environment for managing up to 500 APs

CPU: Intel® Core™ i3 3.6 GHz dual-core or above

RAM: 4 GB minimum

HDD: 500 GB (actual requirement dependent on log size)

 ${\tt OS: Microsoft @Windows @7 or later + VMware @Player 7.0 or compatible virtualization software} \\$

Recommended environment for managing up to 1,000+ APs

CPU: Intel® Core™ i5 3.2 GHz quad-core or above

RAM: 4 GB minimum

HDD: 500 GB (actual requirement dependent on log size)

OS: Microsoft® Windows® 7 or later + VMware® Player 7.0 or compatible virtualization software

Browser Requirements Internet Explorer 10 or better Firefox 34.0 or better Chrome 31.0 or better Safari 8.0 or better

Network Topology Requirements

At sites where APs are deployed: A DHCP-enabled network for APs to obtain an IP address

Simplified Device Management

EzMaster Network Management Software makes centralized device management easy. How? Through centralized bulk configuration, provisioning and monitoring, a comprehensive at-a-glance network dashboard, rich analytics and reporting, and much more.

ezMaster Software Features

- Centralized Management
 - · Configure, Managed & Monitor 1,000+ Neutron Devices
 - · Cross-Network AP Management
 - · AP Group Configuration
- Access Point Configuration & Management
 - · Auto Channel Selection
 - Auto Tx Power
 - · Background Scanning
 - Band Steering (Auto Band Steering & Band Balancing)
 - · Client Isolation
 - · Client Limiting
 - · Fast Roaming
 - L2 Isolation
 - · LED On/Off Control
 - · Multiple SSID
 - · RSSI Threshold
 - · Secure Guest Network
 - · Traffic Shaping
 - VLAN Isolation
 - VLAN Tag
- Comprehensive Monitoring
 - · Device Status Monitoring
 - · Floor Plan View
 - · Map View
 - · Rogue AP Detection
 - · System Status Monitoring
 - Visual Topology View
 - · Wireless Client Monitoring
 - · Wireless Coverage View
 - · Wireless Traffic & Usage Statistics
- Management & Maintenance
 - Bulk Firmware Upgrade
 - · Captive Portal
 - Email Alert
 - ezRedundancy (Available 2016)
 - · Kick/Ban Clients
 - · One-Click Update
 - · Remote Logging
- Seamless Migration
- SmartSync Redundancy (Available 2016)
- Syslog

Technical Specifications

Francisco	Madulations	Jane and Cotting and
Frequency	Modulations	Image Settings
RF: 2.4 and 5 GHz Frequency Bands	802.11b: BPSK, QPSK, CCK	Adjustable Image Size, Quality & Bit Rate
Charles de la constante de la	802.a/g/n: BPSK, QPSK, 16-QAM, 64-QAM	Confirmable
Standards	802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	Configurable
IEEE 802.11b/g/n on 2.4 GHz	Community of Deville Teachers I amount	Brightness
IEEE 802.11a/n/ac on 5 GHz	Supported Radio Technology	Sharpness
IEEE 802.3at/af	802.11b: Direct-Sequence Spread-Spectrum (DSSS)	Contrast
Dadia Chaina/Suratial Sturanea	802.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)	White Balance
Radio Chains/Spatial Streams		Saturation
2x2:2	Channelization	Exposure AGC/AWB/AES
Radio I		Flip & Mirror
	802.11ac with 20/40/80 MHz channel width 802.11n with 20/40 MHz channel width	
11b/g/n: 2.412~2.484		Time Stamp & Text Caption Overlay
De die II	802.11a/b/g with 20 MHz channel width	Auto/Manual Day & Night Mode
Radio II		3D Noise Reduction
11a/n/ac: 5.18-5.24 and 5.26-5.32 and 5.5-5.7 and 5.745- 5.825 GHz	Operation Modes	Low Light Compensation (LLC)
3.023 0112	Mesh Access Point/Access Point	A 11
2 . 2 .	Standalone: Access Point, Client Bridge, WDS Access Point, WDS Bridge, WDS Station	Audio
Data Rates		Audio Streaming
Up to 300 Mbps on 2.4 GHz	(Device cannot be managed when used in Bridge mode)	1-Way
Up to 867 Mbps on 5 GHz		
Management	Camera	Interface
Memory Capacity	Image Sensor	Built-In Microphone
Micro SD/SDXC – up to 64G	Sony 1 /2.9" 2-Megapixel Progressive Scan CMOS	Denla visa ant Ontions
Paular Cancumation	Lone	Deployment Options Standalone (Individually Managed)
Power Consumption Maximum 12.4W	Lens Fixed Board Lens	Standalone (Individually Managed) Managed Mode (with Neutron Series Switch/ezMaster)
IVIdXIIIIUIII 12.44VV	Fixed-Focus, f=2.8 mm / F2.0	Managed Mode (With Neutron Series Switch/eziwaster)
Antenna	11XEQ-1 OCUS, 1—2.0 11111/ 1 2.0	Multiple BSSID
Internal High-Gain Antennas 5dBi per band	F.O.V.	Supports up to 16 SSIDs, 8 SSIDs per Radio
Internal riigh-dain Anternas subi per band	120° (diagonal)	Supports up to 10 solies, 6 solies per hadio
Physical Interface	120 (diagonal)	VLAN Tagging
1 x 100/1000 Gigabit Ethernet Port	IR Illuminator	Supports 802.1q SSID-to-VLAN Tagging
- 802.3af PoE Input	24 Pcs LEDs, Up to 65-Feet	VLAN Pass-Through
1 x Reset Button	21163 2253, 60 60 51 666	VEXIVE ass infloagif
1 x Power Connector	Day/Night	Spanning Tree
1 x Micro SD/SDXC Slot	Removable IR-Cut Filter	Supports 802.1d Spanning Tree Protocol
24 x IR LEDs	Terriovable in eachiter	Supports 602.1d Sparining free Flotocol
1x Embedded Microphone	Minimum Illumination	QoS
The Embedded Microphone	Color (IR-Off): 0.01 Lux / F2.0	Compliant with IEEE 802.11e Standard
LED Indicators	B/W (IR-On): 0 Lux / F2.0	WMM
1 x Power	2,11 (11. 01.), 0 14.7 / 12.0	
1 x 2.4 GHz	Shutter Time	SNMP
1 x 5 GHz	1/2 sec. to 1/10,000 sec.	v1, v2c, v3
1 x Ethernet		, 4,
1 x Mesh	Video	MIB
	Compression	I/II, Private MIB
Power Source	H.264/MJPEG	
24V Proprietary Compliant Source		Standalone Management Features
12VDC/1.5A	Stream	Auto-Channel Selection
Active Ethernet (PoE)	2x Video Streams	Wireless STA (Client) Connection List
		Guest Network
Transmit Power	Frame Rates	Fast Roaming (802.11k & 802.11r)
Up to 21dBm on 2.4 GHz	Up to 30 FPS at 1920 x 1080P	Pre-Authentication (802.11i, 802.11x)
Up to 19dBm on 5 GHz	- F	PMK Caching (802.11i)
		(302.11)

Technical Specifications

Standalone Management Features continued	
Band Steering	
Traffic Shaping	
RSSI Threshold	
VLANs for Access Point - Multiple SSIDs	
Backup/Restore Settings	
Auto Reboot	
E-Mail Alert	
Wireless Management Features (with ezMaster Neutron Switch)	&
Access Point Auto Discovery and Provisioning	
Access Point Auto IP Assignment	
Access Point Group Management	
Remote Access Point Rebooting	
Access Point Device Name Editing	
Access Point Radio Settings	
Fast Roaming (802.11k & 802.11r)	
Pre-Authentication (802.11i, 802.11x)	
PMK Caching (802.11i)	
RSSI Threshold	
Access Point Client Limiting	
Client Fingerprinting	
Access Point VLAN Management	
Secured Guest Network	
Captive Portal	
Access Point Status Monitoring	
Rogue Access Point Detection	
Wireless Client Monitoring	
Background Scanning	
Auto-Transmit Power	
Auto-Channel	
Email Alert	
Wireless Traffic & Usage Statistics	
Real-Time Throughput Monitoring	_
SmartSync Redundancy	
Visual Topology View	_
Floor Plan View	_
Map View	
Wireless Coverage Display	_
Secure Control Messaging (SSL Certificate)	_
Local MAC Address Database	
Remote MAC Address Database (RADIUS)	_
	_
Unified Configuration Import/Export	
Bulk Firmware Upgrade Capability	
One-Click Update	
Intelligent Diagnostics	
Kick/Ban Clients	
Wi-Fi Scheduler	
Auto Reboot	

Configura	ation
	face (HTTP)
CLI (Telne	t)
Security	
WEP Encr	yption (64/128/152 bit)
WPA/WPA	2 Enterprise (PSK using TKIP or AES)
Hide SSID	in Beacons
MAC Addi	ress Filtering, Up to 50 MACs per SSID
SSH Supp	ort
Client Isol	ation
QoS (Qua	lity of Service)
IEEE 802.1	1e
WMM (Wi	ireless Multimedia)
	Destand
supporti	ng Protocol
UPnP, NFS	UDP, DHCP, NTP, DNS, DDNS, SMTP, FTP, HTTP, I/Samba Client, QoS/DSCP, RTP, RTSP, 3GPP, ne Zone Management
	Event/Recording
Event Tri	gger
Event Tri	
Event Trig	gger amper/Audio Detection
Event Trig Motion/Ta	gger amper/Audio Detection
Event Trig Motion/Ta	gger amper/Audio Detection
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IE, Safari, Chrome, Firefox, Opera

Vide	o Management Software
Micro	osoft Windows XP/2000/2003/Vista/7/8/10
EnVi	ewer Mobile APP
	android Devices
Live \	/iewing for Up to 5 Clients
Temp	perature Range
Oper	ating: 32°F to 122°F, 0°C to 50°C
Hum	idity (non-condensing)
Oper	ating: 80% or less
Stora	ge: 80% or less
Devi	ce Dimensions & Weights:
Weig	ht: 1.11 lbs. (503.4 g)
Diam	eter: 5.27" (134 mm)
Heigh	nt: 3.81" (97 mm)
Pack	age Contents
12V/1	.5A Power Adapter
Mour	nting Bracket
Mour	nting Screw Set
T-Rail	Mounting Kit
RJ45	Ethernet Cable
Quick	Installation Guide
Certi	fications
	C, CE

Warranty
1-Year Standard

EWS1025CAM

