

ENVR2 PLUS Appliance

8 TB

4 TB

3-YEAR WARRANTY

The second generation of ES Appliances, ENVR2 PLUS, is Avigilon's smallest appliance that unlocks Avigilon's Next-Generation Video Analytics capabilities for any connected video stream. It supports Classified Object Detection (COD), Appearance Search, Facial Recognition and License Plate Recognition (LPR) capabilities for up to eight cameras¹. With cybersecurity reinforced by Avigilon's hardened OS, a distributed and threat-resistant network of ENVR2 PLUS appliances provides security teams with complete coverage and centralized management of large geographies while preserving situational awareness and minimizing bandwidth usage over Wide Area Networks (WAN).



Features



Appearance Search on Third-Party Cameras

Quick and accurate search for a person of interest or object to take action and aid in better outcomes in forensic investigations on any third-party camera.



Lower Capex

Non-analytic legacy cameras are utilized to run analytics, thereby reducing the burden of new investment, lowering the cost of on-prem hardware, and promoting the democratization of AI on all cameras. Upgrade ENVR2 PLUS remotely with a single signed and encrypted firmware package.



Next Generation Video Analytics

Go beyond people and vehicle classification and improve object classification of over 50 objects, faster forensic investigations to alert a match for person or vehicle on a watchlist using facial recognition, LPR and provide better perimeter protection for critical sites.



Improve Scale, Speed, and Security

Hybrid Architecture enables appliances and devices to run multiple analytics services concurrently and on-demand, share resources within the site using on-prem hardware or our Avigilon Cloud Services. Allows maximization of computing resources across the infrastructure.



Optimal WAN Usage

Reduce playback bandwidth using HDSM when viewing video feed and only transmit what you need, when you need, optimized. Bring the recording closer to the camera, thereby reducing video feed latency and stability of camera stream networking.

¹ ENVR2 PLUS supports any Avigilon camera or 3rd-party ONVIF-compliant camera.

ONVIF is a trademark of Onvif, Inc.

Analytics



Classified Object Detection™ (COD)
 Detects and classifies people or vehicles to help operators respond faster. Unusual Activity Detection (UAD) automatically detects atypical behavior of learned objects.
 UNITY8-ENT/ACC7-VAC required



Avigilon Appearance Search™ (AS)
 Quickly locates a specific person or vehicle of interest across an entire site using a sophisticated deep learning AI search engine.
 UNITY8/ACC7-ENT required



Face Recognition (FR)
 Detects matches from managed watchlists to alert operators of people of interest. Requires Appearance Search and an additional license.
 UNITY8/ACC7-FACE required



No Face Mask Detection
 Determines whether a person is not wearing a face mask to help prevent community transmission.
 UNITY8/ACC7-ENT required



Occupancy Counting
 With cameras at entrances and exits, a running total of occupancy can be monitored in real time.
 ACS Required



License Plate Recognition
 Works with Unity Video software for accurate license plate capture at a range of distances and speeds.
 UNITY8/ACC7-LPR required

Model	Analytics Cameras ¹		Non-Analytic Cameras ¹					Number of LPR Lanes ²							
	AS Only ⁴	AS +FR ⁴	COD Only ³	COD +AS ⁴	COD +AS +FR ⁴	COD +AS ⁴ +VFD ⁵	COD +AS ⁴ +VFD ⁵ +FR	Default Mode				Performance Mode ⁶			
								5 FPS <48 KM/H	10 FPS <48 KM/H	20 FPS <100 KM/H	30 FPS <150 KM/H	10 FPS <48 KM/H	10 FPS <48 KM/H	20 FPS <100 KM/H	30 FPS <150 KM/H
ENVR2 PLUS	10	10	6	6	4	3	2	4	2	1	-	12	6	3	2

¹ These performance figures are based on validation testing by Avigilon, using Avigilon Unity Video software version 8.1.0. Assumes appliance-wide average per camera rates of classified objects leaving the field of view: H5A cameras – one every second; H4A cameras – one every two seconds; non-analytics cameras running COD – one every second.
² Assumes a 3MP camera with 1MP license plate scan area and Frames Per Second (FPS) to recognize license plates up to vehicle speeds in Kilometers Per Hour (KM/H). Results may vary according to camera mounting parameters.
³ For cameras at 2MP and 30 frames per second (fps).
⁴ Requires H5A, H4A cameras, or Classified Object Detection running on non-analytic cameras.
⁵ When enabling VFD, Avigilon cameras must disable analytics on the camera, enable COD, and count the camera as a non-analytic camera.
⁶ Requires LPR Performance mode to be enabled. See the ENVR2 PLUS user guide for more information.

Device Types Supported for Analytics¹

- Avigilon H.264 Analog Encoders

- Avigilon HD H.264, H3, H3 Multisensor, H4 SL, H4 Mini dome, H4 Box, H4 Bullet, H4 Dome, and H4 Pro cameras

- Avigilon H4A cameras operating for Unusual Motion Detection

- Avigilon H5Pro and H4 Multisensor (in high frame-rate mode), H5M, and H5SL cameras

- ONVIF® Profile S cameras

- ONVIF encoders

- Third-party devices (MJPEG, MPEG4, H.264, H.265/HEVC) supported by Unity Video. For more information, see [avigilon.com/vms/on-premise/supported-devices](https://www.avigilon.com/vms/on-premise/supported-devices).

¹ JPEG 2000 cameras without ONVIF compliance are not supported on ENVR2.

Specifications

System		4 TB	8 TB
Avigilon Unity Video/Avigilon Control Center™ Edition		Version 7 (factory installed), Version 8 upgrade available (ACC camera licenses are sold separately)	
Network Video Streaming Performance	Network Connection	1GbE Networking	
	Recording Rate	Up to 96 Mbps	
	Playback Rate	Up to 48 Mbps	
Operating System		Avigilon Hardened OS, supports secure remote upgrades	
OS Drive		16 GB eMMC 5.1 Flash	
Storage Capacity		1 × 3.5" SATA 3 hard drive, 4 TB	1 × 3.5" SATA 3 hard drive, 8 TB
Site Capacity		Site support for up to 24 servers, 500 cameras and 100 defined users	
PoE+ Ports		8 × RJ45 10/100 Mbps (IEEE 802.3at)	
Total PoE Power Budget		125 W	
PoE Power per Port		0-30 W (sum of all ports must be below the Total PoE Power Budget)	
Network Interface		2 × 1 GbE RJ-45 ports (1000Base-T)	
External I/O Terminals		4 digital inputs and 4 relay outputs	
Memory		8GB 128-bit LPDDR4x	
Processor (CPU+GPU)		NVIDIA Jetson System-on-Module (SOM)	
Local Viewing		No video outputs – Web-based administration only	
Warranty		3-year warranty	

* Avigilon Appearance Search and facial recognition requires Enterprise version of the Unity Video software.

Electrical	
Power Input	100 to 240 V AC, 3A; 50/60 Hz
Power Supply	Single external, 54 V DC, 4.26A, 230W

Supplied Accessories	
Wall/Desk Mount Kit	Includes wall mount brackets, mounting screws, and drywall anchors Optional rack mount and DIN rail mount kits available
Peripherals	1 external power supply and 1 digital IO terminal block with screwdriver

Certifications	
Certifications/Directives	UL, cUL, CE, RCM, UKCA, RoHS, Reach (SVHC)
Safety	UL/CSA/IEC/EN 62368-1
Electromagnetic Emissions	FCC Part 15 Subpart B Class B, ICES-003 Class B, EN 55032 Class B, EN 55011 Class B Group 1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3
Electromagnetic Immunity	EN 55035, EN 61000-6-1

Environmental	Operating	Storage
Temperature	0° C to 50° C (32° F to 122° F)	-30° C to 70° C (-22° F to 158° F)
Humidity	95% relative humidity @ 40° C (104° F), non-condensing	95% relative humidity @ 60° C (140° F), non-condensing

Supported Analytics Events

Objects in Area	The event is triggered when the selected object type moves into the region of interest.
Object Loitering	The event is triggered when the selected object type moves into the region of interest and then stays for an extended amount of time.
Objects Crossing Beam	The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional.
Object Appears or Enters Area	The event is triggered by each object that enters the region of interest. This event can be used to count objects.
Object Not Present in Area	The event is triggered when no objects are present in the region of interest.
Objects Enter Area	The event is triggered when the specified number of objects have entered the region of interest.
Objects Leave Area	The event is triggered when the specified number of objects have left the region of interest.
Object Stops in Area	The event is triggered when an object moves into a region of interest and then stops moving for the specified threshold time.
Direction Violated	The event is triggered when an object moves in the prohibited direction of travel.
Tamper Detection	The event is triggered when the scene unexpectedly changes.

Outline Dimensions

[X.XX]	INCHES
X.X	MM

Form Factor

1U chassis

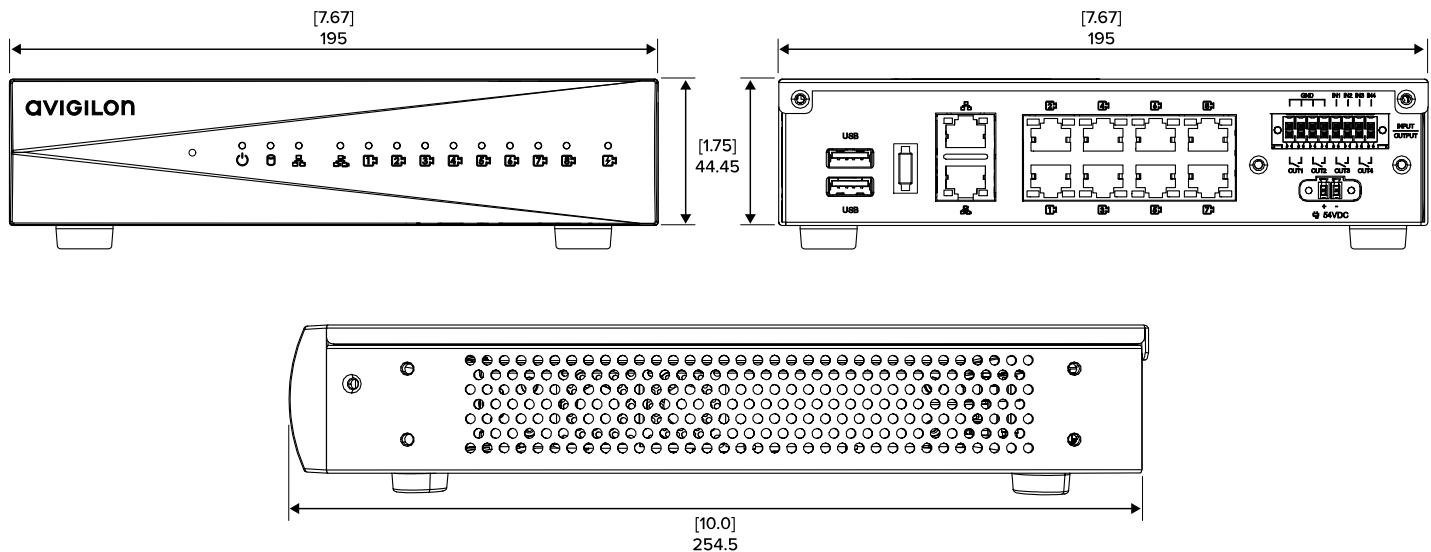
Dimensions (L x W x H)

254.5 mm x 195.0 mm x 44.45 mm

[10.0" x 7.67" x 1.75"]

Weight

1.14 kg [2.5 lbs]



Ordering Information

ENVR2-PLUS-8P8	ENVR2 PLUS 8 TB with Avigilon Control Center
ENVR2-PLUS-8P4	ENVR2 PLUS 4 TB with Avigilon Control Center

Avigilon Control Center licenses must be purchased separately.

Avigilon Appearance Search and facial recognition requires Enterprise version of the ACC software.

ENVR2-PLUS-8Pn-NA



ENVR2-PLUS-8Pn-UK



ENVR2-PLUS-8Pn-EU



ENVR2-PLUS-8Pn-AU



Software Licenses

ACC7-ENT	ACC 7 Enterprise Edition license
ACC7-STD	ACC 7 Standard Edition license
ACC7-COR	ACC 7 Core Edition license
ACC7-VAC	ACC 7 Video Analytics feature channel license – Required for Classified Object Detection
ACC7-FACE	ACC 7 Facial Recognition feature channel license
ACC7-FACE-10C	ACC 7 Facial Recognition feature 10 channel license
ACC7-LPR	ACC 7 LPR lane license
UNITY8-ENT	Avigilon Unity Video 8 Enterprise Edition license
UNITY8-STD	Avigilon Unity Video 8 Standard Edition license
UNITY8-COR	Avigilon Unity Video 8 Core Edition license
UNITY8-FACE	Avigilon Unity Video 8 Facial Recognition feature channel license
UNITY8-FACE-10	Avigilon Unity Video 8 Facial Recognition feature 10 channel license
UNITY8-LPR	Avigilon Unity Video 8 LPR lane license

Optional Accessories

PS-ENVR2-8P	Replacement power adapter without the power cord
RMS1U-ENVR2-8P	Rack mount installation kit
DIN-ENVR2-8P	DIN rail mount installation kit

Support

Learn more and find additional documentation at [avigilon.com](https://www.avigilon.com) or email sales@avigilon.com for specific product support.



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