

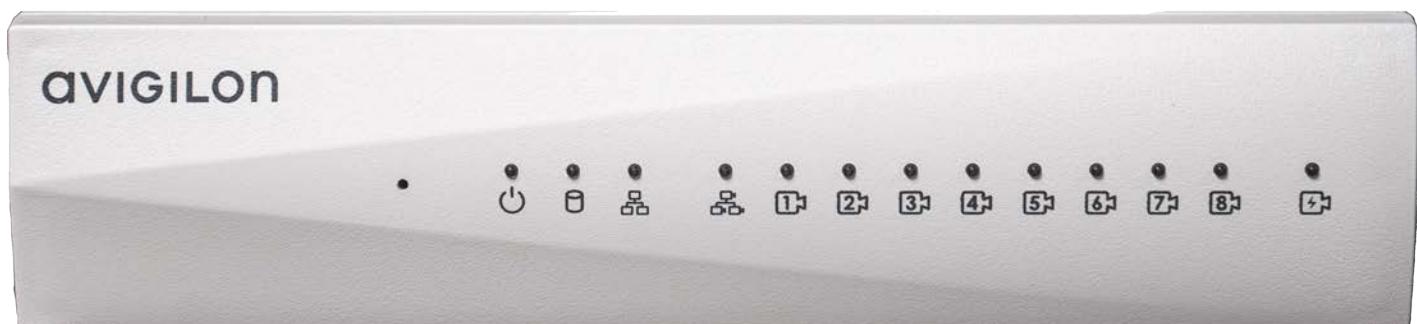
# ENVR2 PLUS Appliance

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 cameras<sup>1</sup>. 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.

<sup>1</sup> ENVR2 PLUS supports any Avigilon camera or 3rd-party ONVIF-compliant camera.

ONVIF is a trademark of Onvif, Inc.



MOTOROLA SOLUTIONS

AVIGILON™

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

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> For cameras at 2MP and 30 frames per second (fps).

<sup>4</sup> Requires H5A, H4A cameras, or Classified Object Detection running on non-analytic cameras.

<sup>5</sup> When enabling VFD, Avigilon cameras must disable analytics on the camera, enable COD, and count the camera as a non-analytic camera.

<sup>6</sup> Requires LPR Performance mode to be enabled. See the ENVR2 PLUS user guide for more information.

## Device Types Supported for Analytics<sup>1</sup>

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](http://avigilon.com/vms/on-premise/supported-devices).

<sup>1</sup> 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/Desktop Mount Kit | Includes wall mount brackets, mounting screws, and drywall anchors<br>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

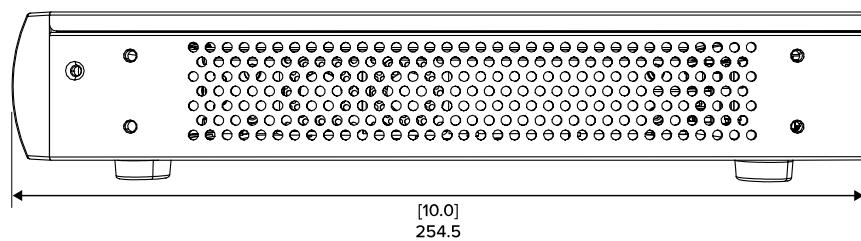
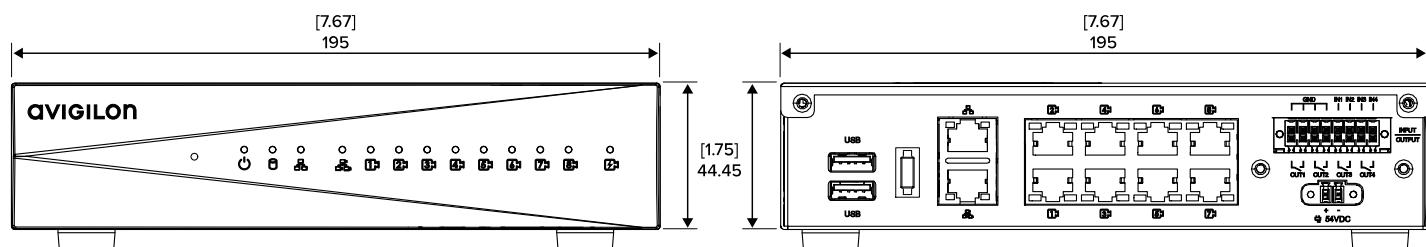
Dimensions (L x W x H)

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](http://avigilon.com) or email [sales@avigilon.com](mailto:sales@avigilon.com) for specific product support.



Jul 2025 | Rev 5

© 2025, Motorola Solutions, Inc. All rights reserved. MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. AVIGILON, the AVIGILON logo, AVIGILON CONTROL CENTER, ACC, HDSM SmartCodec and LIGHTCATCHER are trademarks of Avigilon Corporation. The absence of the symbols ™ and ® in proximity to each trademark in this document or at all is not a disclaimer of ownership of the related trademark. All other trademarks are the property of their respective owners.