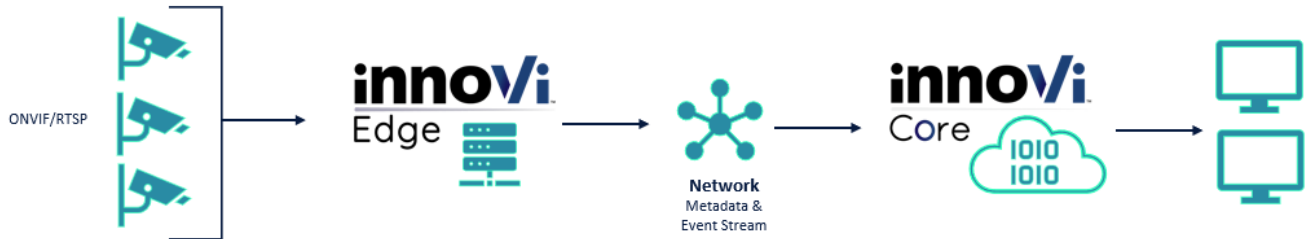


innovi Edge CI (Customer Installed) Data Sheet (Ver. 28-Aug-2022)

innovi Edge CI enables innovi software deployment on a customer's own hardware to connect ONVIF / RTSP fixed IP cameras from the camera's network to a centralized innovi Core. One or multiple innovi Edge Devices (innovi Edge CI, innovi Edge 320/325, or a mix of both) process the video stream, transforming it into Agent Vi's proprietary metadata and sending it to an innovi Core, which will then perform all central management and advanced analysis. See [Note 1](#) for innovi Virtual Edge.



Contact innovi Presales at presales.innovi@irisity.com to receive a customized hardware specification matching your specific deployment needs

Operating System

- **Ubuntu 20.04, LTS 64-bit, server edition with no GUI installed**

Number of Supported Cameras

The number of cameras supported by a given Edge Device depends on the following factors:

- **Hardware** (Processor's number of physical cores; CPU base frequency; Memory - number of DIMMs)

The following Intel® processors are supported:

- 2nd Generation Intel® Xeon® Scalable Processor (Cascade Lake)
- 3rd Generation Intel® Xeon® Scalable processor (Ice Lake)

- **Video Streaming Profile**

- H.264 @ 720P @ 8 FPS
- H.264 @ 1080P @ 15 FPS
- H.264 @ 1080P @ 30 FPS
- H.265 @ 720P @ 8 FPS
- H.265 @ 1080P @ 15 FPS
- H.265 @ 1080P @ 30 FPS

If you use any other streaming profile, set a secondary streaming profile with one of the above-mentioned options

- **Scene Activity Level**

- Low
- Medium
- High

See [Appendix A](#) for scene activity level examples

Storage

Operating System & application: 128 GB

For innoVi Remote Guarding: No additional storage is required

For innoVi Enterprise or innoVi Investigation:

For viewing investigation results, two options are available in innoVi under *Camera Settings* → *Full frame recording* field, which impact the storage requirements:

1. **Full frame recording Disabled (default):** low resolution object image crops of the detected object are displayed in the investigation results. Video clips are not stored and are not available for display in the innoVi portal
2. **Full frame recording Enabled:** an internal storage is used for video recording. Video clips of investigation results are stored and are available for display in the innoVi Portal at 720p, 1 FPS

Other Considerations

- innoVi Edge CI can be deployed on VM. In this deployment type the supported camera count may be reduced
- The innoVi Edge CI server should not host other non-innoVi applications
- Cameras connected to innoVi Edge CI must have static IP addresses (dynamic IP allocation may result in camera disconnections)

Networking Requirements from innoVi Edge to innoVi Core

Average Required bandwidth per camera:

- 5 kbps upload
- 0.5 kbps download

Additional upload bandwidth:

- Real-Time Event Detections: ~500 KB per event
- Live View in innoVi GUI: ~300 Kbps per camera

Maximum allowed latency from the innoVi Edge to the innoVi core:

- 2 seconds

Supported Camera Characteristics

- Resolution: as listed above
- Frame Rate: 8 FPS is the minimal supported frame rate
- Video resolution width should be divisible by 4
- Maximum allowed aspect ratio is 4:1

Note 1: The innoVi Virtual Edge requires the same hardware specifications as the innoVi Edge CI, however, it is applicable only for Customer Hosted deployments. The server/s of the innoVi Virtual Edge are installed together with the innoVi Core under the same Kubernetes cluster.

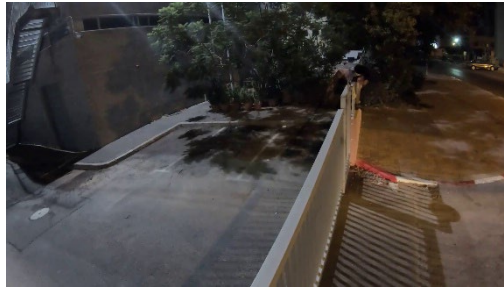
Appendix A: Scene Activity Level - Examples

Scene activity refers to the number of objects in a frame, as measured over time. It is defined in the following levels: **Low**, **Medium**, and **High**. The following screenshots and related short video clips show two examples per each level:

Low



[Perimeter Intrusion](#)



[Gate Intrusion](#)

Medium



[Small-Mid size city traffic – scene 1](#)



[Small-Mid size city traffic – scene 2](#)

High



[Highway](#)



[Multi-level intersection](#)

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