

Monitor

The Monitor package enables highly focused road monitoring, through automated detection and validation of events and visualisation of contextual conditions' allowing for better, faster and more effective decision-making. This package is realised via a user-friendly interface and focuses on supporting real-time road monitoring and tactical activity within a control centre.

Key Benefits:

1. **Ensure readiness for unexpected disruptions** by easily understanding road and other conditions, as well as the status of all ITS to maximise traffic and operational efficiency.
2. **Remove dependency on manual or reactive detection** by implementing automated detection on sensors, open data, and camera feeds.
3. **Respond to events in the most effective way** by creating certainty in the existence, nature, persistence, location and impact of an event.
4. **Prioritise response effort and resources** by highlighting important events on the road based on severity, certainty and impact.



Dynamic Filters

Easily prioritise relevant live events

Map Data Layers

Live stream of critical events verified by the Real-Time Fusion Engine

Add or remove layers as required

ITS infrastructure and road features such as tunnels and bridges

The screenshot shows a traffic monitoring interface. On the left, there is a 'Detection' panel with tabs for 'Detection' and 'Monitoring'. Under 'Detection', there are filters for 'Severity', 'Type', 'Status', and 'Source'. Below these filters is a table of events:

Icon	Event Type	Status	Time	ID
	SVD	Open	19/08 17:20:45	ID #242809
	SVD	Open	19/08 17:08:51	ID #242756
	Congestion	Open	19/08 17:07:00	ID #242761
	SVD	Open	19/08 17:02:13	ID #242732
	Congestion	Open	19/08 16:27:00	ID #242569
	Congestion	Open	19/08 15:57:00	ID #242436
	SVD	Open	19/08 15:20:26	ID #242183

At the bottom of the table is a '+ Add Event' button. To the right of the table is a 'Layers' panel with a 'Select...' dropdown and a list of layers with toggle switches: Cameras, Events, PK, Info, Infrastructure, Road Features, and Studs. The main map area shows a road with various icons and labels like '19.5 km', '19 km', and '18.5 km'. On the right side of the map, there are controls for temperature (24°), a 'Details' dropdown, and speed/road information (47.6° Road, km/h, veh/h). A compass is located at the bottom right.

Traffic Flow Visualization

Colour coding to highlight traffic conditions

Interface Cameras

Expand real-time camera view

Visualise On Road Events

Pinpoint location of critical events

The screenshot displays the VALERANN traffic monitoring interface. On the left, a sidebar contains navigation icons for home, map, and data. The main interface is divided into several sections:

- Top Bar:** Shows the date and time "19 Aug 2021 18:46:11", a refresh icon, and a "Road:" label with a user profile icon.
- Filtering and Controls:** Includes tabs for "Detection" and "Monitoring", a "Select..." dropdown, and "Layers" controls. Below these are filters for "Severity", "Type", "Status", and "Source", along with an "Open" button.
- Event List:** A table of detected events with columns for severity, type, and time. The events listed are:

Severity	Type	Time	ID
Open	Speeding	19/08 18:45:27	#7813496
Open	Congestion	19/08 18:44:43	#7813478
Open	SVD	19/08 18:44:33	#7813483
Open	Severe Congestion	19/08 18:44:01	#7813461
Open	Undefined Interference	19/08 18:43:20	#7813484
Open	Severe Conaestion	19/08 18:43:12	
- Map:** A dark-themed map showing a road network. A road is highlighted with green lines, indicating traffic flow. Various icons are placed along the road, including a camera icon and distance markers (e.g., 13 km, 12 km, 10.5 km, 10 km, 9 km, 8.5 km). A "View" button is visible near the 10 km marker.
- Camera View:** A large window in the center shows a real-time camera feed of a road. The timestamp "19-08-2021 18:43:56" is visible in the bottom left of the camera window.
- Right Panel:** Displays weather information: "31°" with a sun icon and a "Details" dropdown. Below this, a road speed limit of "39.9°" is shown, along with "km/h" and "veh/h" units and a compass icon.

Triangulate alerts with data from complementary sources to instantly validate and assess urgency of incidents.

The dashboard interface includes a top navigation bar with a logo, a date and time display (26 Aug 2021 18:57:52), and a location indicator (Road: Ayalon). The main content area is divided into several sections:

- Incident List:** A table of detected incidents with columns for Severity, Type, Status, and Source. The list includes multiple 'Speeding' incidents and one 'Severe Congestion' incident.
- Incident Detail View:** A detailed view for an 'Accident' incident (ID #7835462) from 20 Aug 2021 at 11:42:13. It shows the source location (Lat: 32.115278, Lng: 34.811017, PKC 21.4) and an 'Add comment' field.
- Traffic Flow Graph:** A line graph titled 'Carriageway Traffic-Flow' showing 'Avg. Speed km/h' over time from 11:28 AM to 11:57 AM. The speed starts around 55 km/h, peaks at 60 km/h, and then drops significantly to around 15 km/h by 11:55 AM.
- Video Feeds:** Two video feeds are shown, labeled 'Event video' and 'Live video'. Both show a road scene with a red dot indicating the incident location. The video feeds include a speed limit indicator 'Rokach Kukul = 40'.

Severity	Type	Status	Source
?	Speeding	Open	26/08 18:56:59 ID #8139962
?	Speeding	Open	26/08 18:56:02 ID #8139906
?	Speeding	Open	26/08 18:55:56 ID #8139900
?	Speeding	Open	26/08 18:55:13 ID #8139838
?	Speeding	Open	26/08 18:54:56 ID #8139815
?	Speeding	Open	26/08 18:54:53 ID #8139810
?	Speeding	Open	26/08 18:54:21 ID #8139771
?	Speeding	Open	26/08 18:54:09 ID #8139759
🚚	SVD	Open	26/08 18:53:46 ID #8139817
🚗	Severe Congestion	Open	26/08 18:53:42 ID #8139800
?	Speeding	Open	26/08 18:53:16 ID #8139707
🚚	SVD	Open	26/08 18:52:55 ID #8139801
?	Speeding	Open	26/08 18:52:37 ID #8139657
?	Speeding	Open	26/08 18:52:04 ID #8139622
?	Speeding	Open	26/08 18:51:24 ID #8139580

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