

Operations

Red Light Violation Detection

Keeping your streets safe and holding red light violators accountable

With the Red Light Violation Detection (RLVD) plugin, red light violations no longer go unnoticed as AutoVu automatic license plate recognition (ALPR) cameras capture infringements in real time. Users and sworn officers can then monitor and process potential red light violations in Security Center.

Efficiently identifying and dealing with red light violations is an issue for most traffic agencies, particularly when it comes to collecting evidence and transmitting it to authorities or third parties for ticketing processing.

The Red Light Violation Detection plugin is a complete solution designed explicitly for your traffic agency to quickly and seamlessly detect and process red light infractions.

Industry:

Public Safety · Transportation

Applications:

LPR

Key benefits

Visual review process

Modifiable record information

Selectable video snapshots

Exemption of false positives

Efficient pre-validation of violations (user)

Easy export of snapshots and information bundles (officer)

Additional benefits from native Security Center include dependable failover backup and useful federation

The screenshot displays the Genetec Security Center interface with the Red Light Violation Detection (RLVD) plugin active. The interface is divided into several sections:

- Left Panel:** Contains a list of LPR units and a status filter. The LPR units list includes:
 - AdiPatroller Right
 - AlainPBP Left
 - AlainPBP Right
 - AV10-Charger - 6.1
 - AV10-Charger - 6.1
 - AV10-Charger - 6.1
 - AV10-Charger - 6.1
 - AV10-Charger - 6.1
 - AV10-Charger - 6.2
 - AV10-Charger - 6.2
 - AV10-Charger - 6.2
 - AV10-Charger - 6.3
 - AV10-Charger - 6.3
 - AV10-Charger - 6.3
- Violations Table:** A table listing detected violations with columns: Id, Lpr unit, License plate, Timestamp, Pre-approved by, Approved by, Exempted by, Status, and Locked by. The table shows 10 violations, all with a status of 'Unprocessed' and locked by 'dbauwens'.

Id	Lpr unit	License plate	Timestamp	Pre-approved by	Approved by	Exempted by	Status	Locked by
5908	SharpV01507 (Entrance - AE Row-1)	E17PJU	2019-07-03 8:07:15 AM				Unprocessed	dbauwens
5909	SHARPV02288 (India SR Entrance - AE Row-1)	E17PJU	2019-07-03 8:07:15 AM				Unprocessed	
5910	SHARPV02288 (India SR Entrance - AE Row-1)	E17PJU	2019-07-03 8:07:16 AM				Unprocessed	
5911	SHARPV00016 (Exit Middle - AE)	E17PJU	2019-07-03 8:07:28 AM				Unprocessed	
5912	SharpV01507 (Entrance - AE Row-1)	G02RVG	2019-07-03 8:09:38 AM				Unprocessed	
5913	SHARPV05562 (New CPU Rev) (Entrance - AE)	G02RVG	2019-07-03 8:09:40 AM				Unprocessed	
5914	SHARPV02288 (India SR Entrance - AE Row-1)	G02RVG	2019-07-03 8:09:37 AM				Unprocessed	
5915	SHARPV02288 (India SR Entrance - AE Row-1)	G02RVG	2019-07-03 8:09:38 AM				Unprocessed	
5916	SHARPV05562 (New CPU Rev) (Entrance - AE)	G11EEH	2019-07-03 8:10:05 AM				Unprocessed	
5917	SharpV01507 (Entrance - AE Row-1)	G11EEH	2019-07-03 8:10:02 AM				Unprocessed	
5918	SHARPV02288 (India SR Entrance - AE Row-1)	G11EEH	2019-07-03 8:10:02 AM				Unprocessed	
5919	SHARPV02288 (India SR Entrance - AE Row-1)	G11EEH	2019-07-03 8:10:02 AM				Unprocessed	
5920	SHARPV05562 (New CPU Rev) (Entrance - AE)	E55GLX	2019-07-03 8:10:17 AM				Unprocessed	
- Video Review:** A large video window showing a street intersection. The timestamp '2019-11-04 14:42:33' is displayed. Below the video, there are playback controls and a camera selection dropdown showing 'SHARPV01507 (Entrance - AE) - Camera - 01'.
- License Plate Recognition (ALPR):** A section on the right showing a license plate 'AUT0123' from California. Below the plate, there are fields for 'License Plate', 'Amount' (0.00), and 'Remarks'. At the bottom, there are buttons for 'Exempt' and 'Approve'.

Key features

Live report review

In the live report table, users can filter through the 100 most recent violations by LPR unit, selected status, and license plate. This list updates automatically.

Detection report

Similar to the live report feature, the detection report shows violations, depending on the selected relative or specific time range.

False positive exemption

Users can exempt confirmed false positives from their records of actual violations.

Violation management

Frontline users can pre-filter potential violations leaving sworn officers the task of final approval and export of evidence package, including image snapshots.

Information modification

System users can add and review information within the violation record, such as a corrected license plate number, infraction, fees, or remarks about the violation.

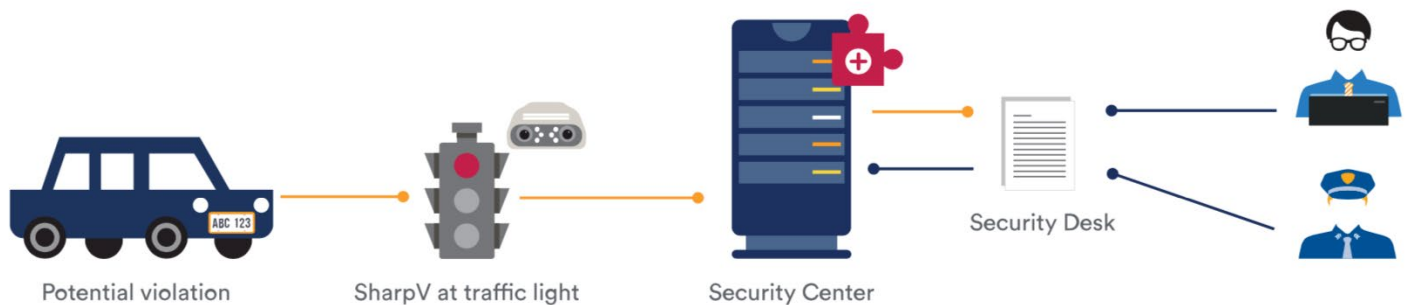
Violation reviewing

When reviewing potential violations, users and authorities can play, rewind, and forward through frames captured by video. Users can also select up to 8 snapshots to save from the video as evidence.

Evidence exporting

Users can create and export red light violation evidence packs to allow collaboration in citation processing between law enforcement agencies, and with third-party ticketing providers.

How it works



The Sharp ALPR camera receives an electrical input when the traffic light is red. As a potential violator crosses an intersection under a red light, the APLR camera captures their license plate. A video recording of the event is also captured by either the Sharp or any alternate video camera connected to Security Center. The ALPR and video data is fed to the Security Center server with the RLVD plugin. Users and officers can then use the Security Desk client to access the red light violation data on the Security Center server, to validate the event, select the appropriate evidence, and take the appropriate action.

Compatibility

Part number	Description	Requirements
GSC-AV-S-RLVD	Base package for the Red Light Violation Detection plugin.	• AutoVu™

- The minimum version for Security Center to run the plugin is 5.8.
- The minimum sharp OS version is 12.7, as the input management is required for the red light integration.