AutoVu SharpV

Automatic license plate recognition system

Crystal clear automatic license plate recognition in all conditions

Whether you want to scan vehicles on busy roadways or track who accesses your facilities, you need a reliable system that performs in challenging conditions. The Genetec AutoVu™ SharpV provides crisp, full HD captures at all times. Day or night, on slow local streets, or on fast multi-lane highways, you can trust that it's gathering the insights you need, when you need them most.

The SharpV goes beyond license plate identification. Its suite of vehicle analytics supports your investigations and helps you close cases faster. And thanks to its simplified design, it can be up and running in no time, letting you focus on your mission.

Key features

- Superior performance and new analytics with high-performance onboard machine learning
- Clear, high-quality images, with two ultra-wide sensors that capture data across multiple lanes
- Excellent nighttime performance with high power pulsed illuminators and global shutter
- Reduced installation and maintenance costs, with motorized lenses equipped with auto-focus for remote zoom and focus configuration
- Deploy anywhere with built-in 4G/LTE cellular radio option*
- Integrate with induction loops using onboard I/O

Key benefits

Get intelligence at the edge – With hardware-accelerated processing, the SharpV doesn't rely on remote servers for analysis. This eliminates latency and reduces the impact of ALPR on your network. And since it doesn't rely on external hardware, it provides uninterrupted performance—even when connectivity is unavailable.

Simplify design and deployment – Don't let local infrastructure limit your ability to gather necessary data. With its embedded 4G/LTE communication option, motorized lenses with auto-focus, and support for both 24Vdc and PoE++ power, the SharpV is easy to deploy without headaches.

Tap other systems – Combine ALPR data with video surveillance, access control, and more in Genetec Security Center. Break down the silos between your systems to increase operational intelligence and situational awareness, so you can do more with your ALPR system.

Gather data when it matters most – Not all crimes happen in broad daylight. With its built-in illuminators, global shutter, and high-resolution sensors, the SharpV leads the industry in performance at night and in challenging conditions.

* To verify 4G/LTE and dual-lane feature availability in your region, contact your Genetec representative.

Specifications

Sensors
ALPR camera: 1920 × 1200 @ 30 fps; monochrome; global shutter
Context camera: 1920 × 1200 @ 30 fps; color; global shutter

Capture range
9–148* ft (3–45* m)

Storage
Minimum 128GB eMMC

Dimensions
Height: 63 mm (2.5 in)**
Width: 192 mm (7.6 in)
Length: 214 mm (8.5 in)

Weight
White, non-LTE version: 2.31 kg (5.09 lb)
Black, non-LTE version: 2.83 kg (6.24 lb)
Black, LTE version: 3.01 kg (6.64 lb)

Illuminator
Pulsed LED illuminator for effective use in
0 lux (total darkness) environments
940 nm, 850 nm, 740 nm, and 590 nm illumination
wavelengths available

Available color(s)
Security white or black

Operating temperature
-40°F to 149°F (-40°C to 65°C) ambient
Storage temperature: -40°F to 185°F (-40°C to 85°C)
Humidity: up to 95% relative humidity

Onboard analytics
Vehicle type, vehicle color, speed estimation, direction of travel, virtual loop, plate origin (state and country***), etc.

Power input
PoE++ (Power over Ethernet) 802.3bt Type 3: 27 W typical, 40 W max
24 V input option: 24 V dc +/-15%, 25 W typical consumption, 37 W max

Satellite positioning†
GPS, Glonass, Beidou, Galileo, QZSS

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Sealing (water/dust protection)
IEC 60529: IP66/IP67

Still image compression
JPEG compression for ALPR and context still images

Data interface
LAN: 1 × 10/100/1000 Base-T Ethernet port
WWAN (select models and territories): 4G/LTE Category 4
- SIM card format: 3FF (Micro)
- LTE bands:
  - -0M1 model (N-A): B2, B4, B5, B12, B13, B14, B66
  - -0M0 model (global): B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B26, B19, B20, B28

Video streaming
MJPEG up to 15 fps
H.264 up to 30 fps

Vibration and shock
IEC 60068-2-64: 5~100Hz | 0.5 g rms
IEC 60068-2-27: 10g | 16 ms half-sine
MIL-STD-810H §514.8
Category 4: composite two-wheeled trailer

Impact††
IEC 62262: IK09

Electromagnetic immunity and emissions
FCC | ICES-003 Issue 4 | CISPR32/EN55032 | CISPR35/EN55035

CE marking
2014/30/EU EMC Directive
2014/53/EU Radio Equipment Directive (RED) †

Cellular certifications
PTCRB IoT Network Certified
AT&T and FirstNet network ready
Verizon Open Development certified

Safety
IEC/EN: photobiological safety of lamps and lamp systems—exempt group
IEC 62368-1 CB-scheme: audio/video, information and communication technology equipment

External I/Os
Two inputs/two outputs (opto-isolated)

Mounting
Pole and wall mount included

* Contact Genetec for additional details
** 71 mm (2.8 in) high with sun shield for black version; 81 mm (3.2 in) high with front GPS antenna; 232 mm (9.1 in) high with back cellular antennas
*** Available only for some regions and services. Talk to your Genetec representative for details.
† Requires 4G/LTE option
†† Requires a tamper guard kit, IEC 62262: IK06 for 4G/LTE option

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