

AutoVu™ SharpX

High-Resolution Automatic License Plate Recognition Camera

The SharpX is an IP-based automatic license plate recognition (ALPR) camera of the AutoVu system. Designed for the most demanding situations, the SharpX provides high license plate capture and read rates in both mobile and fixed deployments. The SharpX helps public safety agencies and private organizations locate vehicles of interest, monitor vehicles entering and exiting their premises and enforce parking bylaws.

Combined with AutoVu robust feature set, the SharpX can compare scanned vehicles to lists of wanted vehicles, parking permit owners or employees, and automatically notify operators of situations requiring their intervention.



Features

Up to 4 high-resolution ALPR cameras on the same processing unit

Reads license plates 24 hours a day and in any environmental conditions with built-in illumination

Designed for mobile ALPR applications

Captures license plates on vehicle travelling at speeds over 220 MPH (355 km/h)

Identifies vehicle make and license plate state or country of origin alongside ALPR reads

Streams live video to Genetec Security Center unified security platform

Supports international plate reading

Get More from Your ALPR System

Unsurpassed Reading Accuracy – The AutoVu SharpX uses a progressive scan sensor with 1024 × 946 (XGA) resolution to capture license plate images for analysis. This sensor provides an image resolution two to three times higher than most solutions found on the market today, ensuring better readability in different cases such as bad weather, dirty or obstructed plates, difficult angles, and reads across three lanes in mobile applications.

Analyse Vehicle Behavior and Characteristics – The SharpX provides more than license plate numbers. Advanced AutoVu analytics can identify a license plate's state or country of issuance as well as vehicle make. AutoVu also analyzes the behavior of scanned vehicles, calculating their speed and direction of travel with a single camera. The SharpX enhances situational awareness and unlocks new insights into vehicle conduct on monitored installations and roads.

Unified with Video Surveillance and Access Control – When unified with video surveillance and access control systems within Genetec Security Center platform, AutoVu SharpX cameras can be leveraged as video surveillance units, in addition to reading license plates, increasing situational awareness for operators.

AutoVu SharpX Camera Specifications

ALPR camera sensor

XGA: 1024 × 946 progressive scan @ 30 fps, monochrome. Wide mode (1280 × 808) and Standard mode

(1024 × 768) also available within the same camera

VGA: 640 × 480 progressive scan @ 30 fps, monochrome

Capture range

XGA: Up to 115-foot (35-meter) range with reflective license plates

VGA: Up to 70-foot (21-meter) range with reflective license plates

Camera lens options

8mm, 12mm, 16mm, 25mm, 35mm, 50mm

Context camera sensor

Color camera 640 × 480 @ 30 fps (ALPR) and 15 fps (live video streaming in fixed installations)

Temperature

-4°F to 150°F (-20°C to 65°C) operating | -40°F to 185°F (-40°C to 85°C) storage | IEC 60068-2-1 Category Ad | IEC 60068-2-2 Category Bd | IEC 60068-2-14 Category Na | Includes hi-temp auto-shutoff protection

Extended temperature option

-40°F to 150°F (-40°C to 65°C) operating

Water resistance / sealing

IEC 60529 IPx5, IPx7 | IEC 60529 IP6x

Illuminator

Pulsed LED illuminator for effective use in 0 lux (total darkness) environments | Different illumination wavelengths available

Available colors

White / Black

Housing and mounting

Extruded aluminum housing with universal T-slots on either side for universal mounting

Dimensions

1.65 (h) × 4.75 (w) × 4.84 (d) inches (4.2 × 12 × 12.3 cm) | Excludes cabling and mounting bracket

Weight

1.5 lbs (0.7 kg)

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AutoVu ALPR Processing Unit Specifications

I/O

2 × 10/100/1000 Base-T Ethernet ports | 2/4 × ALPR camera inputs

Dimensions

12.6 × 8.6 × 4.72 inches (32 × 22 × 12 cm)

Weight

9.4 lbs (4.2 kg) (X1S) | 10.6 lbs (4.8 kg) (X2S)

Processor

1/2 Intel® Atom™ Processor N2600. Up to 4 ALPR cameras (XGA or VGA) per processing unit

Temperature

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Power supply

12/24 VDC @ 60 W typical (76W for 4 cameras on X2S and 61W for 4 cameras on X1S)

Camera and Processing Unit Certifications

Vibration

MIL-STD-810G Method 514.6C, Cat 4

Shock resistance

IEC 60068-2-27 Test Ea | IEC 60068-2-31 Test Ec, Procedure 1

Electromagnetic immunity & emissions

FCC part 15 Subpart B | ICES-003 Issue 4 | CISPR32 / EN 55032 | CISPR24 / EN 55024 | CISPR25 / EN 55025 | EN 50498

EMC Directive (CE Marking)

2014/30/EU | 2004/104/EC