



Sharp

IP-Based Automated License Plate Recognition

The AutoVu Sharp is an IP-based License Plate Recognition (LPR) device which delivers advanced digital video processing, superior plate reading performance, and industrial grade durability for applications including law enforcement, revenue control, surveillance, and parking. Available for both fixed and mobile installations, the AutoVu Sharp functions over an IP network and provides the advantages of having sophisticated analytics residing on the edge.

Applications

Law enforcement / Security and intelligent transportation systems (ITS) / Parking enforcement and inventory / Revenue control

Superior Benefits of Advanced Technology

Unsurpassed Reading Accuracy – The AutoVu Sharp boasts unequalled precision. This cutting-edge device automatically reads plates of moving vehicles or vehicles parked in parallel, or at 45 and 90 degrees. The AutoVu Sharp offers the highest readability rates.

High-Speed Plate Capture – The AutoVu Sharp's advanced technological capabilities allow it to capture license plates from vehicles moving at differential speeds of up to 140 MPH (225 km/h). Whether mounted over toll roads or on a speeding law enforcement vehicle, unlawful drivers will have difficulty escaping the AutoVu Sharp.

Extensive Field of View – Showcasing some of the most advanced technology available, this rugged LPR device has the ability to read license plates spanning two lanes of traffic (XGA). The AutoVu Sharp's far-reaching capabilities are unrivalled in the industry, allowing users to effectively double their reach and thus, their productivity.

Fixed and Mobile Installations – This device can be integrated into a CCTV platform as a fixed access control point, or as a component of a city-wide surveillance system. The AutoVu Sharp can also be mounted on a vehicle in a mobile application.

International Plate Reading Support – With the ability to read plates from all over the world, the AutoVu Sharp is a solution that meets the requirements of various context environments. This device meets unsurpassed accuracy, regardless of the license plate style.

Unique Advantages of Processing on the Edge

Simplified Installation and Configuration – Units are preconfigured to facilitate installation and aiming without requiring any other adjustments. This compact solution also offers minimal cabling requirements.

On-board Video Compression and Streaming – Dedicated hardware is included to provide real-time video compression that is essential when streaming video across a network.

Reduced Network Load and Head-End Processing – Since all the processing and analytics are done inside the unit itself, the quantity of network traffic is significantly reduced.



Models and Features

Sharp Model EX

Processing units

- Encoder-like functionality with added LPR processing
- Supports 2 Standard Definition (SD) NTSC or PAL inputs
- Simultaneous LPR, compression, and streaming
- LPR at 30 frames per second / 2 channels
- Rugged, compact, environmentally sealed enclosure

Sharp Model XGA

Processing units with internal cameras and illumination

- Cameras: 1 LPR and 1 SD color overview
- High-definition progressive-scan LPR camera
- Pulsed high-intensity illumination source
- Automated exposure control
- Rugged, compact, environmentally sealed enclosure
- Low profile vehicle-mount for reduced light bar occlusion
- In-camera GPS option for GPS tagging of plate reads

Sharp Model VGA

Processing units with internal cameras and illumination

- Cameras: 1 LPR and 1 SD color overview
- Similar feature set to the XGA with cost effective VGA-definition progressive-scan LPR camera
- Applicable to off-street applications where high-speed or two-lane reading is not required

Specifications	Sharp EX	Sharp XGA	Sharp VGA
Camera (LPR)	• n/a	<ul style="list-style-type: none"> • XGA 1024x768 @ 30 fps, monochrome • Digital LPR sensor is synchronized with illuminator flash 	<ul style="list-style-type: none"> • VGA 640x480 @ 30 fps, monochrome • Digital LPR sensor is synchronized with illuminator flash
Camera lens options	• n/a	• 12 mm, 16 mm, 25 mm, 35 mm, 50 mm	• 12 mm, 16 mm, 25 mm, 35 mm, 50 mm
Illuminator	• n/a	<ul style="list-style-type: none"> • Pulsed LED illuminator for effective use in 0 lux (total darkness) environments • Up to 92-foot (28-meter) range with reflective license plates • 850 nm, 780 nm, 590 nm wavelengths available 	<ul style="list-style-type: none"> • Pulsed LED illuminator for effective use in 0 lux (total darkness) environments • Up to 70-foot (21-meter) range with reflective license plates • 850 nm, 780 nm, 590 nm wavelengths available
Temperature	<ul style="list-style-type: none"> • -4°F to 122°F (-20°C to 50°C) operating, [-40°F to 122°F (-40°C to 50°C) optional] • -40°F to 185°F (-40°C to 85°C) storage 	<ul style="list-style-type: none"> • -4°F to 122°F (-20°C to 50°C) operating, [-40°F to 122°F (-40°C to 50°C) optional] • -40°F to 185°F (-40°C to 85°C) storage • Includes hi-temp auto shutoff protection 	<ul style="list-style-type: none"> • -4°F to 122°F (-20°C to 50°C) operating, [-40°F to 122°F (-40°C to 50°C) optional] • -40°F to 185°F (-40°C to 85°C) storage
GPS option	• n/a	• Available	• n/a
Available color(s)	• White	• White / Black	• White / Black
Dimensions	• 2.25 x 8.50 x 10.62 inches	• 2.25 x 8.50 x 11.31 inches (not including sunshield or GPS option)	• 2.25 x 8.50 x 9.94 inches (not including sunshield)
Power supply	• 12/24 VDC @ 20 W typical	• 12/24 VDC @ 27 W typical	• 12/24 VDC @ 27 W typical
Weight	• 7.7 lbs (3.5 kg)	• 8.7 lbs (3.95 kg)	• 7.31 lbs (3.3 kg)

Common Specifications for Sharp EX, XGA and VGA

Water resistance	• IP67 IEC 60529
Operating system	• Windows XP Embedded *
Compression	<ul style="list-style-type: none"> • Compression of SD video streams (MJPEG) for overview and external (tire chalking) cameras • Concurrent video compression and LPR
External interface	• 1 x 10/100/1000 Base-T Ethernet port
Vibration	<ul style="list-style-type: none"> • MIL-STD 810G 514.6 • Figure 514.6 C-1
Bump resistance	<ul style="list-style-type: none"> • IEC 60068-2-29 • Directions: ± X, ± Y, ± Z
Shock	• MIL-STD 810G 516.6

* Windows XP Embedded is a trademark of Microsoft Corporation.

About Genetec

Genetec is a pioneer in the physical security and public safety industry and a global provider of world-class IP license plate recognition (LPR), video surveillance and access control solutions to markets such as transportation, education, retail, gaming, government and more. With sales offices and partnerships around the world, Genetec has established itself as the leader in innovative networked solutions by employing a high level of flexibility and forward-thinking principles into the development of its core technology and business solutions. Genetec's corporate culture is an extension of these very same principles, encouraging a dynamic and innovative workforce that is dedicated to the development of cutting-edge solutions and to exceptional customer care. For more information, genetec.com.

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