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WHAT IS VISEC

Visec is the easiest to use, and fastest surveillance software for NETWORK VIDEO RECORDERS (NVR) with full support of IP cameras such as Axis, Arecont, IQ, Vivotek, ACTI, Pixord, Bosche and more.

Visec-Pro has been intelligently designed by a team of NASA Level Engineers using cutting edge proprietary technology to achieve the fastest clock speed possible for NVR software.

- Complete NVR full IP camera support
- Fastest H.264 and motion jpeg decoder on the market.
- Axis PTZ Camera support- Full support for Axis PTZ cameras
- Megapixel Optimization- Megapixel cameras are the latest in cutting edge technology. They
 provide the largest possible video resolution.
- Hybrid Support- No need to throw away your DVR or analog system, Visec-Pro is backwards compatible with most capture cards, fire wire, and USB cameras and even webcams.
- Easy to Use- We challenge you to find a product as easy and user friendly as Visec Pro

VISEC LICENSE PLATE RECOGNITION MODULE

> LPR - License Plate Module



Visec[®] Software

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Visec's LPR Is The Fastest LPR In The World

Sophisticated research and development have produced the world's first IP based LPR system. Our team of engineers were able to devise an algorithm, highly complex and mapped using sophisticated super computer like simulations to create the fastest license plate reader.

Visec is capable of reading license plates at close to 99.9% accuracy at speeds of over 100 kilometers per hour.

- Vise's LPR module works perfectly with all Visec supported IP cameras such as Axis, Arecont, IQ, Vivotek, ACTI, Pixord, Bosche and more.
- Visec's LPR works worldwide supporting license plate recognition from almost 80% of the countries in the world. Visec's LPR component provides fast results for law enforcement doing mobile surveillance, perfect for the hospitality industry or any private sector use.
- Such extensive research and development by VISEC have contributed to the world's most advanced LPR system available at the consumer level.
- In addition, Visec's LPR system can be fully integrated with any third party software wanting to utilize Visec's License Plate Recognition technology for private application use.
- All LPR functions can be fully automated and integrated with 3rd party applications, such as remote databases, access control I/O's or simple on board processing.
- Megapixel cameras can also be used to perform multi Lane LPR, saving deployment time and cost.
- LPR detected plates are stored on Visec's main system while allowing full compare of remote license plates, local, or exporting for 3rd party processing.

Visec LPR is used in many typical Applications:

- Law Enforcement In side police cars for auto detections of plates
- Check Points- A network of check points provide true random monitoring of stolen or wanted vehicles.
- Traffic, Surveillance and Monitoring -Allows Traffic management from statistics, linear regression of pattern type surveillance to marketing data for new budgeting.
- Access Control Utilizing I/O control LPR can trigger based on events a sequence of events. For example a stolen car, can automatically close a gate.



License Plate Recognition

Visec[®] Software

LPR

Visec Mobile System



VISEC [®] V-Mobile combines an embedded robust mobile PC and true megapixel IP Cameras with the renowned VISEC [®] LICENSE PLATE RECOGNITION software, to produce the most versatile, top quality mobile surveillance system available.

The mobile unit is a purpose-built fixed mounted unit for In-vehicle operation which can be used with various VGA displays, i.e. Touch Panels, Standard LCD monitors etc. The VISEC [®] V-Mobile LPR unit is designed especially for law enforcement or monitoring purposes, perfect for Shopping Mall Park Patrols.

The system can identify license plates on moving vehicles at top speeds from real time IP Video. VISEC [®] V Mobile is a compact unit, which captures license plates from high resolution video, allowing for instant playback of footage, can access multiple databases via LAN/ WAN, without interrupting the recording of Live Video.

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Visec[®] Software

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SUMMARY OF VISEC LPR

- Fastest consumer driven LPR in the world
- Benchmarked using atomic clock instrumentation
- Capable of reading license plates at close to 99.9% accuracy
- Clocked speeds of over 100 kilometers per hour.
- Supports license plates in the USA, Africa, Asia, Europe and Central/South America
- Plates are converted into Alpha numeric text entry deciphered using sophisticated algorithms.
- Fully Integratable- or EXPORT to a ASCII Text file, or post to 3rd party server
- Guaranteed Easy to Use- Learn Visec LPR in 30 minutes or less!



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Visec[®] Software

LPR

VISEC SALES SKU'S



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Technical Specification and Performance

Licensing	Per CPU available in 1-6 lane solutions via hasp key	
Cameras Supported		
IP Cameras	Axis, Arecont, IQ, Vivotek, ACTI, Pixord, Bosche and more.	
Analog	Capture Card up to 16 camera, interlace video ok	
Deinterlacing	Internal Deinterlacing algorithm supported	
Compressions	Mjpeg (recommended), still jpg, H.264, Mpeg4	
Minimum Camera Resolution	320 x 240 (qciff)	
Maximum Camera Resolution	Megapixel Support with click to draw crop coordinates	
Optimal Resolution	640 x 480 or megapixel resolution	
License Plate Pixels Requirement	80-300 pixels; recommended 150 pixels side-to-side	
Allowable Rotation	± 30 degrees (Also Variable based on plate character set)	
Color Requirements	Supporting Monochrome, Grayscale or Color	
Processor Architecture	X86 - 32 Bit	
System Requirements Dual Core / Quad Core Intel Processor 2 GHz or high		
Ram	3GB - 4GB ram recommended	
Video Card	512 Mb Video Card	
Supported Operating Systems	Windows Server, Vista, XP	
LPR Response Time	Fast response of 25 milliseconds	
Access Control Integration	I/O interfacing via RJ-45 ports, or RS232	
Example Access Control	Gate Opening, PTZ-Pan to Preprogrammed PTZ point	
Database Support	Internal database allows Import / Export from CSV/Tab Del	
Integration Script / Post	LAN/WAN post LPR plate & image in real time to 3rd party system	
Export	Raw Export File with Image and specific configuration	
Networking		
LAN/ WAN	IEEE 802.3i, 802.3u 802.3ab, IEEE 802.3x	
WIFI	WPA-PSK, WPA2-PSK, WEP 64-bit, WEP 128-bit, WPA-Enterprise	
RFC Support	IPSec tunnel mode (RFC 2401) (pass through mode), IP v.4	
	DHCP server (RFC 2131)	
	DHCP client (RFC 2131)	
	TFTP client (RFC 1350)	
	NAT (many-to-one) (RFC 1631)	
	IP control Protocol (RFC 1332)	





Technical Specification: Visec Mobile Surveillance System

Processor	Intel Mobile Dual Core -> 2 GHz	
Ram- Memory	Mobile DDR2 < 2 GB Ram	
Hard Disk Drive	Supports up to 500 GB solid State HDD	
CD-ROM /DVD/ CD-R Drives	Support For External Optical Drive	
Operating System	Windows CP Embedded	
Dimensions & Weights	324 MM (w) x 287 mm (h) z 127 mm (d), 8.5kg	
	Universal surface Mounting with spring absorption. Able to handle 5G	
Mountings	continuous Vibration	
Shock & Vibration	Shock absorbent mounting system- up to 5G continuous pressure	
LED Indicators	LED indicators for system power and status	
Display	Supports up to 2 LCD Displays per system (touch screen ready)	
	3 x USB (1 x external. 2 x internal)	
	2 x Power over Ethernet ports for IP networks LPR Cameras	
	High Speed Fans to Circulate Air	
Interfaces	High Quality Industrial Connectors	
	Switching Power Supply 12/24 DC	
Power Supply	Connected to Battery Terminals and/or UPS Unit	
Power ON / OFF	Ignition controlled Auto Start and Stop/Run	
Environmental Specifications	SBC temperature control/Operating Temperature 0°C (32°F) to 60°C(140°F)	



AXIS 221 CAMERA SPECIFICATION SHEET

Technical specifications – AXIS 221 Network Camera

Camera		
Image sensor	1/3" Progressive scan RGB CCD	
Lens	Varifocal 3.0 – 8.0 mm, F1.0, DC-iris, CS mount Angle of view, horizontal: 35° – 93°	
Minimum illumination	Color: 0.65 lux, F1.0 B/W: 0.08 lux, F1.0	
Shutter time	1/25000 s to 2 s	
Video		
Video compression	MPEG-4 Part 2 (ISO/IEC 14496-2) Motion JPEG	
Resolutions	160x120 - 640x480	
Frame rate MPEG-4	Up to 30 fps at 640x480, 60 fps at 320x240	
Frame rate Motion JPEG	Up to 45 fps at 640x480, 60 fps at 480x360	
Video streaming	Simultaneous MPEG-4 and Motion JPEG Controllable frame rate and bandwidth VBR/CBR MPEG-4	
Image settings	Compression, rotation, color, brightness, sharpness, contrast, white balance, exposure control, exposure area, backlight compensation, fine tuning of behavior at low light Text and image overlay Privacy mask	
Network		
Security	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, user access log	
Supported protocols	IPv4/v6, HTTP, HTTPS, QoS Layer 3 DiffServ, FTP, SMTP, Bonjou UPnP, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	

Application	Open API for software integration, including VAPIX®	
Programming Interface	from Axis Communications available at www.axis.com	
Intelligent video	Video motion detection, active tampering alarm	
Alarm triggers	Intelligent video, IR-cut filter, temperature and external input	
Alarm events	File upload via FTP, HTTP and email Notification via email, HTTP and TCP External output activation	
Video buffer	9 MB pre-and post alarm	
General		
Casing	Metal (aluminum)	
Processors and memory	ETRAX 100LX, ARTPEC-2, 32 MB RAM, 8 MB Flash	
Power	7 - 24 V DC, max 5.5 W	
	Power over Ethernet IEEE 802.3a, Class 2	
Connectors	RJ-45 for 10BASE-T/100BASE-TX, DC jack	
	D-sub for RS-232	
Operating conditions	0 - 50 °C (32 - 122 °F) Humidity 20 - 80% RH (non-condensing)	
Approvals	EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, VCCI Class B, C-tick AS/NZS CISPR22, ICES-003 Class B, EN 60950-1 Power supply: EN 60950-1, UL, CUL	
Weight	550 g (1,2 lb.)	
Included	Installation Guide, CD with User's Manual, recording software,	
accessories	installation and management tools, mounting and connector kin power supply, Windows decoder 1-user license	

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ARECONT 3105 SPECIFICATION SHEET

AV3105-AI - Color Auto-Iris AV3105DN - Day/Night

Imaging

- 3 megapixel CMOS image sensor
- 2048(H) x 1536(V) pixel array
- 1/2" optical format
- 3.2 µm pixel pitch
- Bayer mosaic RGB filter
- Minimum illumination of:
- Color: 0.2 Lux @ F1.4
 - Day/Night: 0 Lux, IR sensitive
- Dynamic range 60 dB
- Maximum SNR 45 dB
- Maximum Sink 45 UB

Full Field of View (FOV) Resolutions

• 2048(H)x1536(V) 3 megapixel • 1024(H)x 768(V) 1/4 resolution

Cropped Field of View Resolutions

FF	
• 1920x1200	WUXGA
• 1920x1080	HDTV-1080p
•1600x1200	2 MP
·1280x1024	1.3 MP
•1280x720	HDTV-720p
•1024x768	XGA
• 800x600	SVGA
•704x570	PAL
•704x480	NTSC
• 640x480	VGA
• 352x288	CIF

Electrical

- Opto-coupled alarm or trigger input, opto-coupled alarm and flash sync output
 - Power over Ethernet (PoE): PoE 802.3af
 - Power consumption 4 Watts maximum
- Optional DC Al connection (AV3105 Al)

Regulatory Approvals

• FCC, CE and RoHS compliant

Environmental

Operating temperature 0°C (32 °F) to +50°C (122 °F)
 Storage temperature -20°C (-4 °F) to +60°C (140 °F)
 Humidity 0% to 90% (non condensing)

Mechanical

- 3"W (76 mm) x 2.5"H (63.5 mm) x 2.25"D (57mm) (w/o lens)
- 8.6 oz (243 grams) (w/o lens)
- C/CS lens mount





OPTIONAL - IR ILLUMINATOR

An IR Illuminator is used for better good quality images both all day and night long, for low light situations or in complete darkness.



LED	6 X 27	
INFRARED WAVE LENGTH	850 nanometers	
IRSERIES DISTANCE	120 meters or 360 feet	
IR POWER ON	CDS Auto Control	
S/N Ratio	48db(AGC OFF)	
POWER SUPPLY	DC 12V 1200MA	

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OPTIONAL - LIGHT FILTERS

In conjunction with an IR Illuminator, a light filter is an important tool for LPR. It is useful with monochrome processing of LPR around the clock. The filter allows only light transmission greater than 830 nm. This sensitivity allows for better recognition.



Transmission Curve





Wavelength (nm)	Transmission (%)
730	.00
720	0.00
710	0.00
700	0.00
69 <mark>0</mark>	0.00
680	0.00
670	.000
660	0.00



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