timeTec LPR
License Plate Recognition

License Plate Recognition
IP Camera
Focus it Tight, Capture it Right

LPR Camera is an IP camera designed to capture car license plate numbers for processing within the TimeTec Smart LPR System. A credible LPR Camera must first be equipped with a fast shutter speed in order to lessen motion blur as the camera has to deal with a vehicle's velocity. Furthermore, in view of the fact that velocity varies from one vehicle to another, a camera with a fast shutter speed of at least 1/1000 sec is therefore a must. Additionally, it is also advisable that LPR cameras have features that reduce glare and reflected light in order to produce a clearer image i.e. eclipse function.

Another important feature for LPR Camera is night vision capability, which allows the camera to operate within areas of low light or in total darkness (0 LUX) as it operates within the infrared spectrum. Therefore, in order to obtain night vision capability, a LPR Camera must have diodes around the camera that emit infrared light and also a special chip placed inside the camera which captures this infrared radiation and subsequently, convert the radiation into a visible picture.
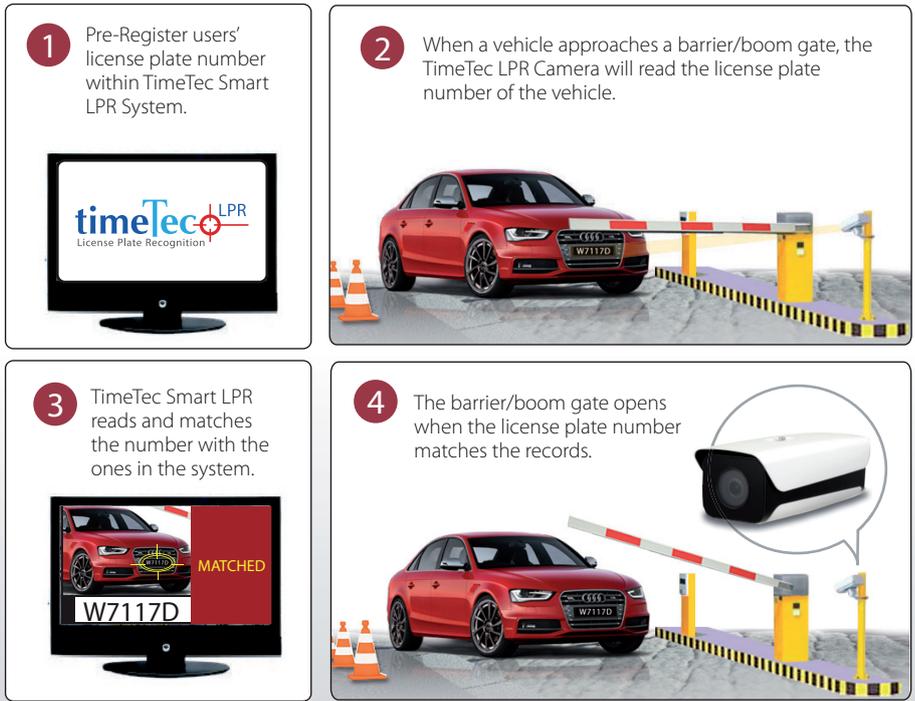
Get the right LPR Camera to ensure better license plate images for TimeTec Smart LPR System

TECHNICAL FEATURES

- 1/2.8 inch 2Megapixel Progressive scan CMOS

- WDR, Day/Night(ICR), 3DNR,BLC, HLC

- H.265& H.264 dual-stream encoding

- Micro SD memory

- Powerful 2.7-13.5mm motorized lens and IR light, ideal for monitor ANPR distance 3-8m

- IP67, and superior performance for outdoor applications

- Embedded with LPR algorithm inside the camera

- Vehicle data structuring: license plate recognition, vehicle size, vehicle color detection and etc.

THE FLOW OF TIMETEC LPR SYSTEM

1 Pre-Register users' license plate number within TimeTec Smart LPR System.

2 When a vehicle approaches a barrier/boom gate, the TimeTec LPR Camera will read the license plate number of the vehicle.

3 TimeTec Smart LPR reads and matches the number with the ones in the system.

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4 The barrier/boom gate opens when the license plate number matches the records.

SPECIFICATIONS

CAMERA TYPE	IP Camera
SYSTEM	Embedded RTOS design
CAMERA	
• Effective Pixels	3.0 Mega Pixels, Main stream:2048*1536;1920*1080, Sub stream:704*576
• Frames Rates	PAL:20fps(2048*1536), 25fps(1920*1080),NTSC:20fps(2048*1536), 30fps(1920*1080)
• Image Sensor	1/3 Aptina CMOS Sensor,3.5 Megapixel resolution (2304H*1536V)
• DSP	Dual core 32-bit DSP, (A5S88)
• Min. Illumination	Color 0.01Lux/F1.2, B/W 0.001 Lux/F1.2
• Adjust Parameters	DWDR,BLC,DNR,AE,AGC,D&N,Mirror,Flip,etc.
VIDEO	
• Compression	H.264 Main profile
• Stream	support dual stream,AVI format
• Bit Rate	support 0.1M ~8Mpbs bit rate adjustable
• Frame Rates	support 1~30fps adjust
AUDIO	
• Input and output	1ch input(micphone), 1ch output(Speaker&micphone) Optional
• Compression	G.711 compression,support two-way audio intercom,support audio & video synchronized output
ALARM	
• Types	Motion Detection, Video Blind , Video Loss
NETWORK	
• WEB Browser	Support WEB remote config(IE, Safari, Google Chrome, Firefox etc.)
• Smart Phone	mobile remote Monitoring (iPhone,Android,Windows Mobile,BlackBerry,Symbian)
• CMS Software	Uniform CMS Software(multiple devices management system)
• Cloud P2P	www.p2pipc.net,MYEYE platform and other program,Offer SDK
• Network	1 * RJ45,10/100M,Support RTSP/FTP/PPPOE/DHCP/DDNS/NTP/UPnP/SMTP
• ONVIF	Support (ONVIF 2.0)
• POE	Support(optional)
• WIFI	N/A
GENERAL	
• Language	English, Finnish, French, German, Greek,Italian, Japanese, Polish, Portuguese, Russian, Spanish, Thai, Chinese & Turkish
• IR Cut Filter	Set of double light switch IR-CUT filter
• Lens Mount	Varicoal Lens 9-22mm (3MP)
• Infrared Luminary	4 pieces Array White light LED
• Infrared Wavelength	More than 30 M
• Waterproof Criterion	IP 66
• I/O Connector	1*DC Connector ,1* RJ45(10/100M Network)
• Supplied Voltage	DC12V/PoE(802.3af/820.3at)
• Power Consumption	IR On: 600mA max., IR Off: Less than 200mA
• Working Enviroment	-10°C~+60°C, 10%~90% (Built in Heater being optional added for enviroment lower than -20°)

Authorized Reseller:

timeTec
www.timeteccloud.com

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