

TimeTec Smart License Plate Recognition System

Securely Automate Authorized Vehicle Access



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1 • Camera 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 (A5588)
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 ~8Mbps bit rate adjustable
	Frame Rates	support 1~30fps adjust
Audio	Input and output	1ch input(microphone), 1ch output(Speakerµphone) Optional
	Compression	G711 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.p2pic.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
	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 Environment	-10°C~+60°C, 10%~90% (Built in Heater being optional added for enviroment lower than -20°)

2 • Configuring IP Camera To Use with TimeTec LPR System

Before the IP camera can be used with TimeTec LPR, you must connect it to the same network with the computer that has been installed with TimeTec LPR. Every IP camera has been integrated with a web-based software to allow admin to access via Internet Explorer 11 and below to do configuration and to view footages.

The default login credentials and network settings are as below:

IP address: 192.168.1.10
Subnet mask: 255.255.255.0
Gateway: 192.168.1.1
Login username: admin
password: [leave it blank]

To secure the IP camera from unauthorized access, make sure you change the login credentials and network settings after your first time login.

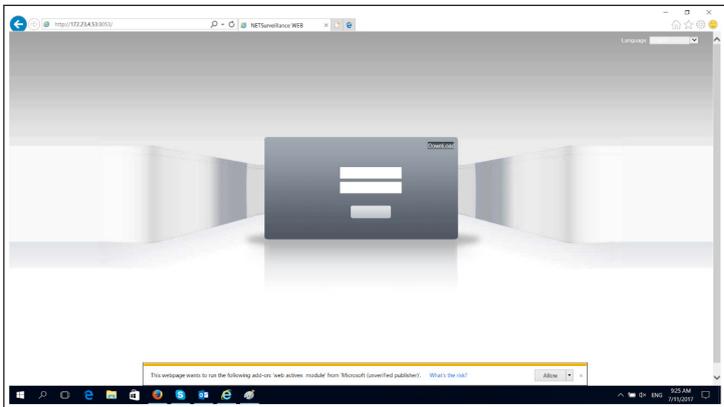
Step • 1

Connect IP camera to a power source to power up the device and plug in a network cable RJ45 to link it to a network.

Step • 2

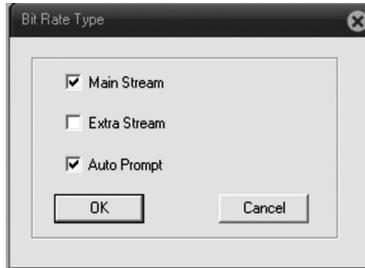
Open Internet Explorer and insert the IP camera's default IP address into the address bar to connect it to the camera. Insert the default login credentials to access into the IP camera.

Note: *The system will alert you to install ActiveX plugin before you can login. Please allow the installation to proceed. If you have already installed ActiveX plugin, you will not receive this system alert.*



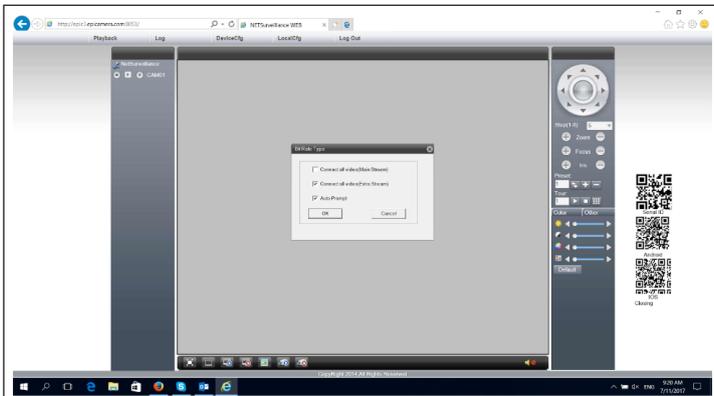
Step • 3

Define the preview video streaming quality as Main Stream when this window pops up.



Step • 4

From the main menu, Click DeviceCfg at the top navigation bar to see the details of configuration for Record, Alarm, System, Advanced, and Info.



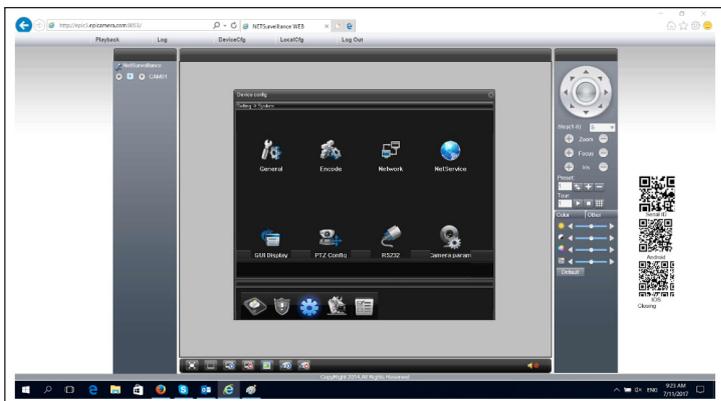
Step • 5

Select the System icon to view the configuration details.



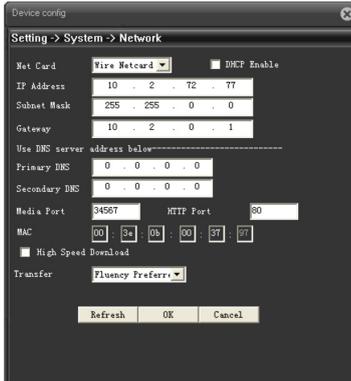
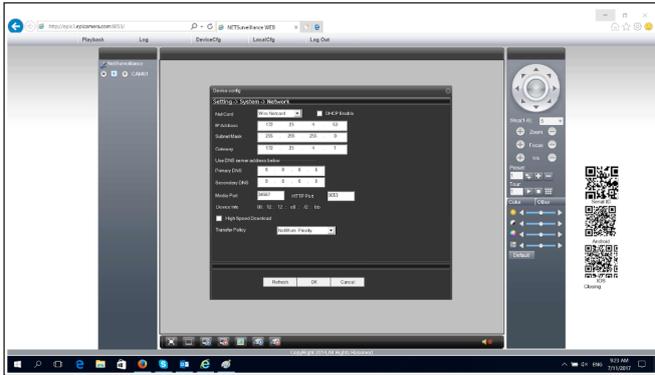
Step • 6

Select Network to start configuring your IP camera's network settings.



Step • 7

Change the IP Camera's IP address and Port to suit your network environment. Save configurations and leave the web browser. Now the IP camera is ready to be used in the TimeTec LPR system.



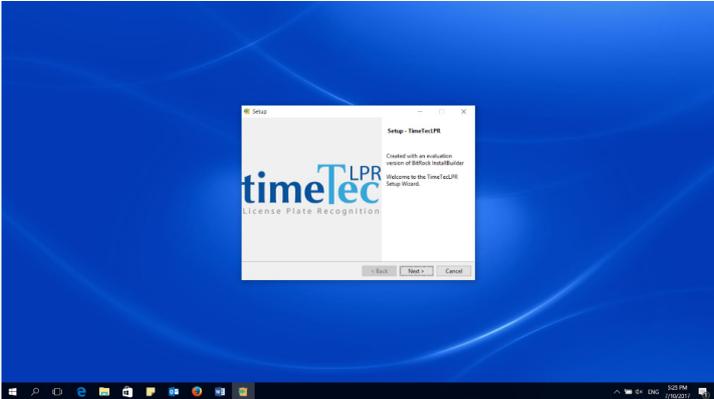
3 • Installation of TimeTec LPR System

Install the TimeTec LPR system into a Windows PC (recommended Windows 10) with the following technical specifications:

Name	Description
CPU	Core i5 Intel, minimum 3.0 GHz
RAM	Minimum 4 GB
Network	Ethernet 100Mbit
Graphics Adapter	AGP or PCI-Express, minimum 1024 x 768, 16-bit colors
Hard Disk Type	E-IDE, PATA, SATA, SCSI, SAS (7200 RPM or faster)
Hard Disk Space	Minimum 10 GB free hard disk space available, excluding space needed for recordings
Operating System	<ul style="list-style-type: none"> • Microsoft® Windows® 10 Professional (64-bit) • Microsoft® Windows® 8.1 Enterprise (64-bit) • Microsoft® Windows® 8.1 Pro (64-bit) • Microsoft® Windows® 7 Professional (64-bit)

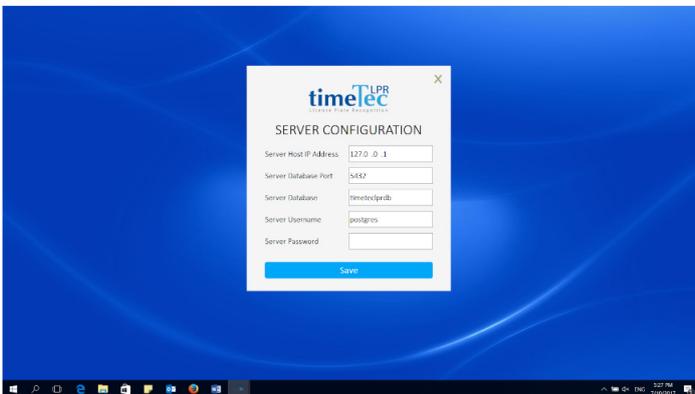
Step • 1

Run the installer to install TimeTec LPR. Follow the onscreen instructions to complete the installation.



Step • 2

For a first time setup, you must connect TimeTec LPR system to the database.

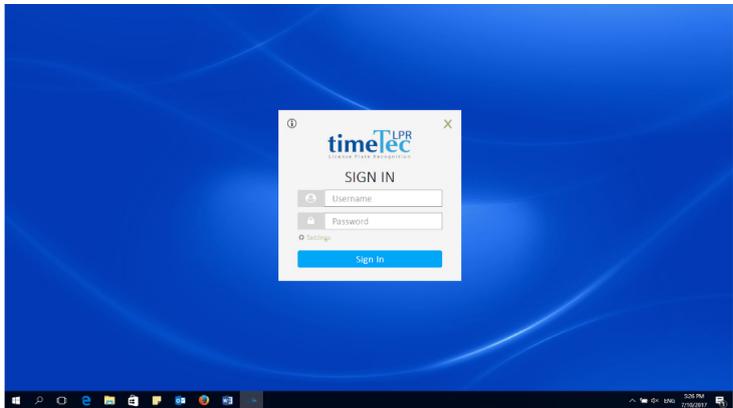


Step • 3

Run the TimeTec LPR and login by using the default login credentials. It is recommended to change the login credentials after you have login.

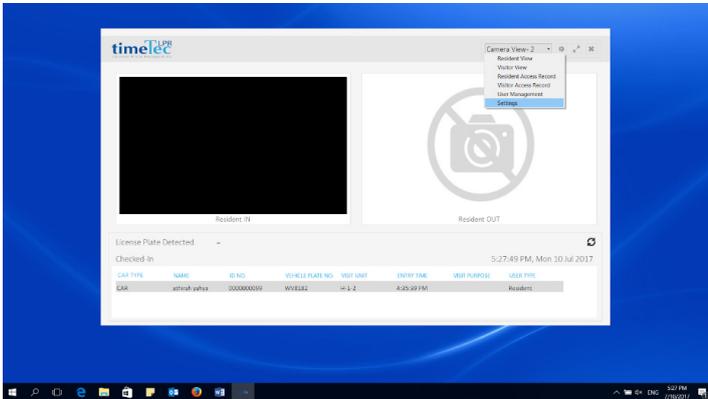
Username: Admin

Password: 123456



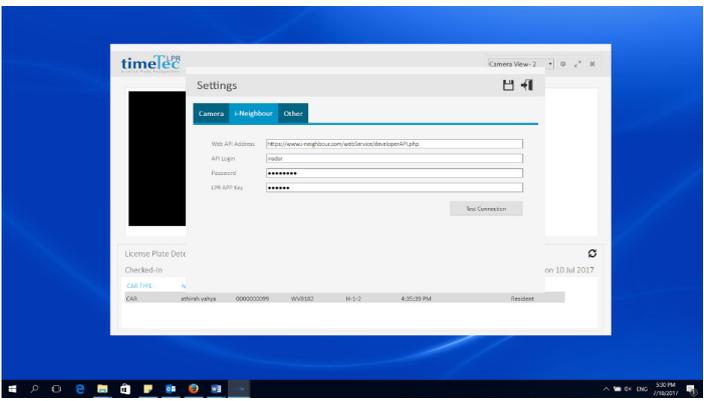
Step • 4

From the TimeTec LPR main screen, go into Settings.



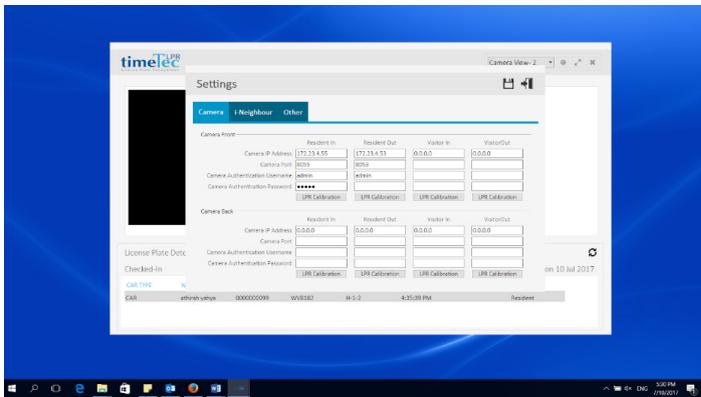
Step • 5

Fill up the LPR App Key obtained from i-Neighbour



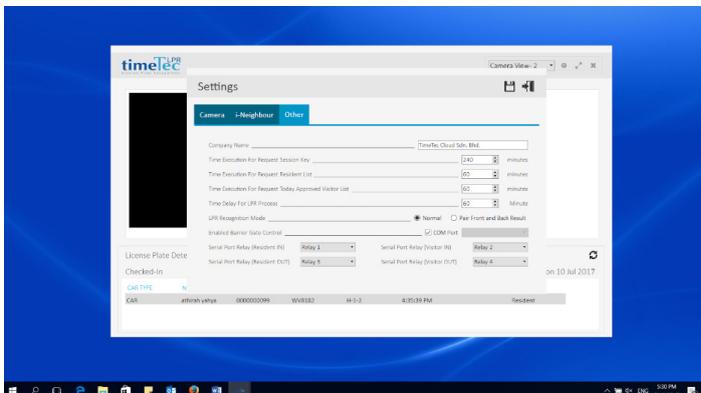
Step • 6

Fill up the camera's IP address, Port, Username and Password.



Step • 7

Select the COM Port for Barrier Gate Control



Step • 8

Save & restart TimeTec LPR

Step • 9

After the restart, you will be able to capture and display the resident's and visitor's car plate number list. Then you can proceed to test the LPR with your car.

