VehiScan® - Automated Number Plate Recognition (ANPR)
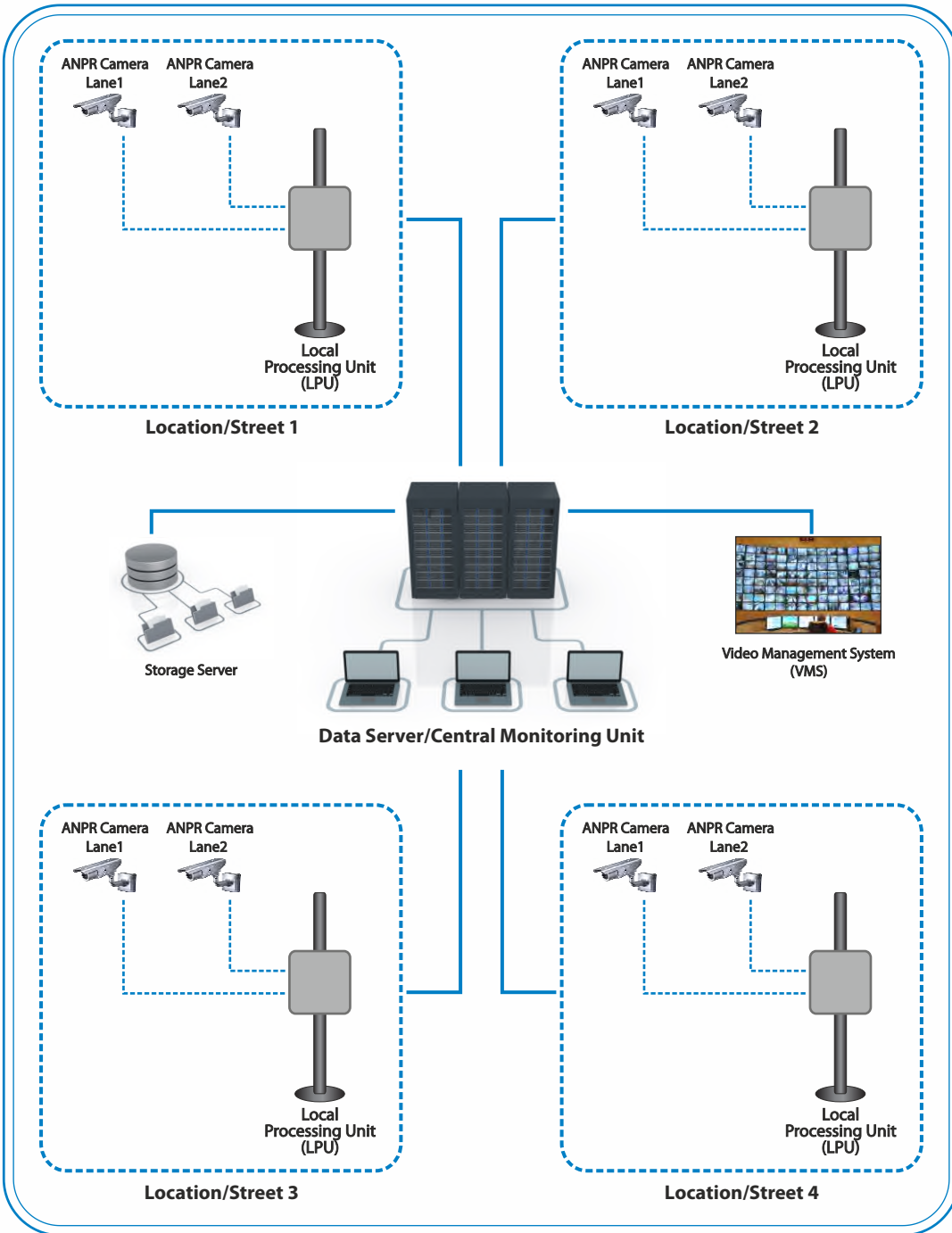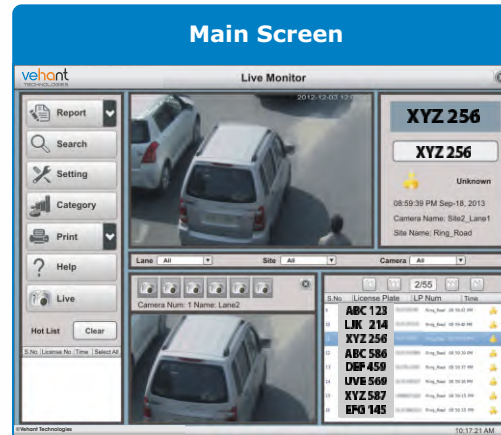

About VehiScan®

VehiScan is the state of the art real time Optical Character Recognition (OCR) based vehicle monitoring system using automatic number plate reading (ANPR) for tracking and identification of vehicles. The system analyzes a video stream in real-time from the camera and processes the same analyzed video stream for ANPR function. The processed vehicle license plates are stored in database and can be verified against number of user-defined criteria. It can be deployed at Border check-posts, Toll Gates/Booths, Entry/Exit Traffic surveillance, Traffic law enforcement applications & hot-listed/stolen/suspected and barred vehicles as part of city surveillance solution.
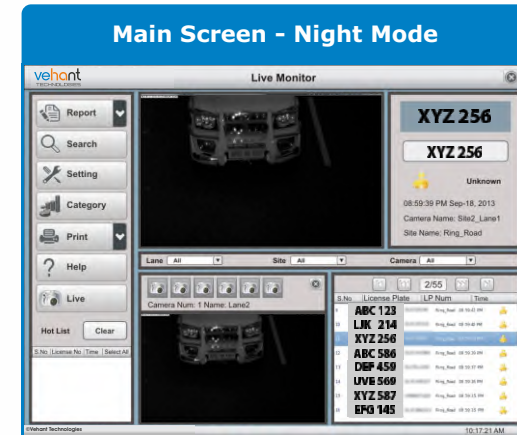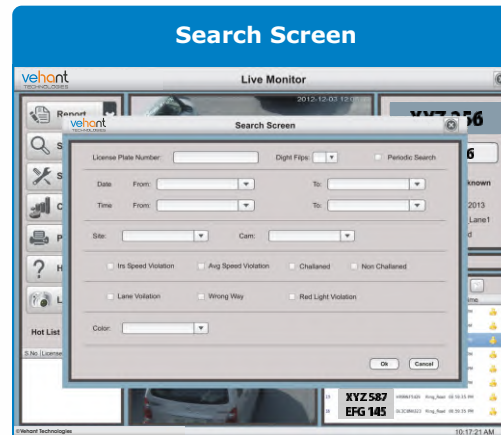
System Architecture

Location/Street 1
- ANPR Camera Lane1
- ANPR Camera Lane2
- Local Processing Unit (LPU)

Location/Street 2
- ANPR Camera Lane1
- ANPR Camera Lane2
- Local Processing Unit (LPU)

Storage Server

Data Server/Central Monitoring Unit

Video Management System (VMS)

Location/Street 3
- ANPR Camera Lane1
- ANPR Camera Lane2
- Local Processing Unit (LPU)

Location/Street 4
- ANPR Camera Lane1
- ANPR Camera Lane2
- Local Processing Unit (LPU)

Graphical User Interface
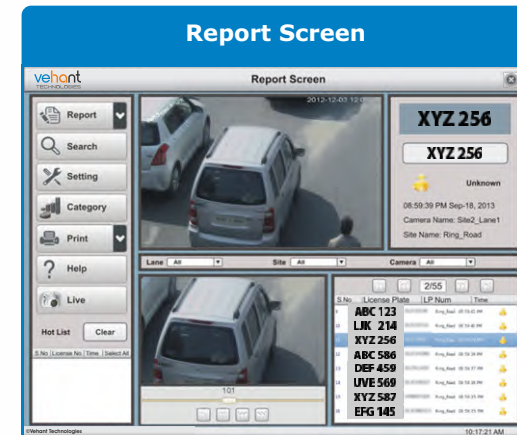
Main Screen

Main Screen display the image of the vehicles with their number plates. It stores vehicle's alpha-numeric number plate letters into text format and highlights any wanted/stolen hot-listed vehicle as per user define criteria.

Main Screen - Night Mode

It is the night mode of the main screen with all the functionalities of the main screen.

Search Screen

It provides the customise search options including hot-listed vehicle, date, time, location, license number plate of search vehicles.

Report Screen

Report screen displays details about the search vehicle including the number plate, date, time and wanted/stolen/hot-listed if any.

Technical Specifications

Camera	Interface	IP
	Format	HDTV 720p/1080p
	Resolution	1 Megapixel and above
	Shutter Speed	1/50 to 1/10000
	Operating temperature (°C)	0 - 50
	Frame Rate	25/30 fps
Lens	Varifocal	5 - 50 mm
	Electronic IRIS Control	DC Type
	Mount	CS
IR Illuminator	Wavelength	850nm (Semi Covert)
	IR Illuminator Range	10 - 15m
	Environment Protection	IP 65
Camera Housing	Environment Protection Housing	IP 65/ IP 66
Processing Unit	Processor	Intel Pentium (2.4 GHz) or better
	RAM	2 GB
	Hard Disk Capacity	500 GB
Speed Limit		120 Km/hr#
Installation and Mounting		Pole Mounted/Overhead Gantry

Key Features

➤ Detects and reads license plates automatically in real time

➤ Real time 24x7 city surveillance solution

➤ The system can process four wheelers and above with speed upto 120km/hr

➤ Does not use any inductive loop sensors/radar for vehicle detection

➤ Can be used for stolen/suspected/hot-listed vehicles

➤ Integrate with other security modules

➤ System can detect & recognize different dimensions/contrast/color license plate with various fonts & style

➤ Multiple entry points can be integrated together to a single central console

➤ Speed limit can be increased with different set of hardware

*specifications are subject to change without prior notice
#higher speed system also available as an option