CLAIMS

1. A method of automated monitoring of traffic, comprising:

capturing visual information associated with the traffic by an image capture device, the image capture device being directed at the traffic;

transmitting the visual information by the image capture device to at least one of a first storage device by a first transmission link and a second storage device by a second transmission link;

transmitting the visual information from the first storage device to the second storage device by a transmission pathway; and

processing the visual information by a violation detection software routine in at least one of the first and second storages to determine whether an element of the traffic is in violation of a traffic protocol associated with the violation detection software routine,

wherein the first storage device is in a first computing system located in proximity to the image capture device; and

wherein the second storage device is in a second computing system located spatially away from the image capture device and the first computing system.

~~2. The method of automated monitoring of traffic as in claim 1, wherein transmitting the visual information by the image capture device to the storage device by the transmission link comprises transmitting the visual information by the image capture device to a first storage device in a first computing system by a first transmission link, the first computing system located in proximity to the image capture device.~~

~~3~~2. The method of automated monitoring of traffic as in claim 1, ~~wherein~~ further ~~transmitting the visual information by the image capture device to the storage device by the transmission link comprises~~comprising transmitting the visual information by the image capture device to a camera storage device in the image capture device by a camera transmission link.

~~4. The method of automated monitoring of traffic as in claim 1, wherein transmitting the visual information by the image capture device to the storage device by the transmission link comprises transmitting the visual information by the image capture device to a second storage device in a second computing system by a second transmission link, the second computing system located spatially away from the image capture device.~~

~~5. The method of automated monitoring of traffic as in claim 2, further comprising~~

~~transmitting the visual information from the first storage device in the first computing system to a second computing system by one of a wired transmission pathway and a wireless transmission pathway, the second computing system located spatially away from the image capture device and the first computing system.~~

~~6~~3. The method of automated monitoring of traffic as in claim 1, wherein transmitting the visual information by the image capture device to the at least one of the first and second storage device~~s~~ by the respective transmission link~~s~~ comprises:

~~transmitting the visual information by the image capture device to a first storage device in a first computing system by a first transmission link, the first computing system located in proximity to the image capture device;~~

selecting a subset of the visual information based on predetermined selection criteria by a selection software routine in the first computing system, resulting in a selected visual information; and

transmitting the selected visual information to a second storage device in a second computing system by ~~a~~ the transmission pathway~~, the second computing system located spatially away from the image capture device and the first computing system~~.

~~7~~4. The method of automated monitoring of traffic as in claim ~~6~~3, wherein selecting the subset of the visual information based on predetermined selection criteria by the selection software routine in the first computing system comprises selecting images having time information equivalent to a plurality of time points recorded when the presence of the vehicle is detected by at least one sensor located along a path in which the vehicle moves.

~~8~~5. The method of automated monitoring of traffic as in claim 1, further comprising generating low resolution visual information and high resolution visual information, wherein transmitting the visual information by the image capture device to the at least one of the first and second storage device~~s~~ by the respective transmission link~~s~~ comprises:

transmitting the high resolution visual information to ~~one of a camera storage device in the image capture device by a camera transmission link and a~~the first storage device in ~~a~~ the first computing system by ~~a~~ the first transmission link; and

transmitting the low resolution visual information to ~~a~~ the second storage device ~~located~~ in a second computing system by ~~a~~ the second transmission link;

and;

wherein processing the visual information by the violation detection software routine to determine whether the element of the traffic is in violation of the traffic protocol associated with the violation detection software routine comprises:

processing the low resolution visual information at the second computing system by the violation detection software routine resulting in an information packet to facilitate determine a subset of the high resolution visual information required for further processing;

transmitting the information packet to ~~one of the image capture device and~~ the first computing system to select the subset of the high resolution visual information from ~~one of the camera storage device and~~ the first storage device;

selecting the subset of the high resolution visual information based on the information packet; and

transmitting the subset of the high resolution visual information to the second storage device in the second computing system through ~~a~~ the transmission pathway for further processing by the violation detection software routine.

~~96~~. The method of automated monitoring of traffic as in any of the preceding claims, wherein the visual information comprises a set of images, each image in the set the images being one of a still image and a moving image.

~~107~~. The method of automated monitoring of traffic as in claim 1, ~~wherein capturing visual information associated with the traffic by the image capture device comprises~~further comprising:

capturing a set of high resolution still images of the traffic by the image capture device;

and;

~~transmitting the visual information by the image capture device to a storage device by a transmission link comprises:~~

transmitting the set of high resolution still images by the image capture device to ~~a~~ the second computing system ~~that is located spatially away from the image capture device~~.

~~118~~. The method of automated monitoring of traffic as in claim ~~107~~, wherein capturing the set of high resolution still images of the traffic by the image capture device is achieved in a predetermined time interval.

~~12~~9. The method of automated monitoring of traffic as in claim ~~10~~7, wherein capturing the set of high resolution still images of the traffic by the image capture device is achieved with a predetermined resolution of the image capture device.

~~13~~10. The method of automated monitoring of traffic as in claim 1, wherein during processing the visual information by the violation detection software routine, information associated with the element of the traffic is generated.

~~14~~11. The method of automated monitoring of traffic as in claim ~~13~~10, wherein the information associated with the element of the traffic comprises at least one of licence plate number, model, logo and paint colour of the automobile in the automobile traffic.

~~15~~12. The method of automated monitoring of traffic as in claim ~~13~~10, further comprising:

reporting the violation and the information associated with the element of the traffic to a traffic law enforcement centre.

~~16~~13. A system for automated monitoring of traffic, comprising:

an image capture device configured to capture visual information associated with the traffic, the image capture device being directed at the traffic;

a first transmission link for transmitting the visual information by the image capture device to a first storage device in a first computing system located in proximity to the image capture device; ~~and~~

a second transmission link for transmitting the visual information by the image capture device to a second storage device in a second computing system located spatially away from the image capture device and the first computing system; and

a transmission pathway for transmitting the visual information from the first storage device in the first computing system to the second storage device in the second computing system,

wherein at least one of the first and second storage devices is configured to receive the visual information ~~from the image capture device~~ and for storing a violation detection software routine to determine whether an element of the traffic is in violation of a traffic protocol associated with the violation detection software routine.

~~17~~14. The system for automated monitoring of traffic as in claim ~~16~~13, ~~wherein the storage device is~~further comprising a camera storage device and ~~wherein the transmission link is a~~

camera transmission link, the camera transmission link configured to transmit the visual information by the image capture device to the camera storage device.

~~18. The system for automated monitoring of traffic as in claim 16, wherein the storage device is a first storage device in a first computing system, the first computing system located in proximity to the image capture device and wherein the transmission link is a first transmission link, the first transmission link configured to transmit the visual information by the image capture device to the first storage device.~~

~~19. The system for automated monitoring of traffic as in claim 16, wherein the storage device is a second storage device in a second computing system, the second computing system located spatially away from the image capture device and wherein the transmission link is a second transmission link, the second transmission link configured to transmit the visual information by the image capture device to the second storage device.~~

~~20. The system for automated monitoring of traffic as in claim 18, further comprising:~~

~~a second storage device in a second computing system, the second computing system located spatially away from the image capture device;~~

~~a second transmission link for transmitting the visual information by the image capture device to the second storage device; and~~

~~a transmission pathway for transmitting the visual information from the first storage device in the first computing system to the second storage device in the second computing system.~~

15. The system for automated monitoring of traffic as in claim 13, wherein the image capture device is powered by one of a battery pack and solar panels.

16. The system for automated monitoring of traffic as in claim 13, wherein the first computing system is a front-end computing system and the second computing system is a back-end computing system.

17. The system for automated monitoring of traffic as in claim 13, further comprising a second image capture device configured to capture visual information associated with the traffic, the second image capture device being directed at the traffic.

18. The system for automated monitoring of traffic as in claim 17, further comprising a third storage device in a third computing system located in proximity to the second image capture device.

19. The system for automated monitoring of traffic as in claim 18, further comprising a third transmission link for transmitting the visual information by the second image capture device to the third storage device in the third computing system.

20. The system for automated monitoring of traffic as in claim 19, further comprising a fourth transmission link for transmitting the visual information by the second image capture device to the second storage device in the second computing system.