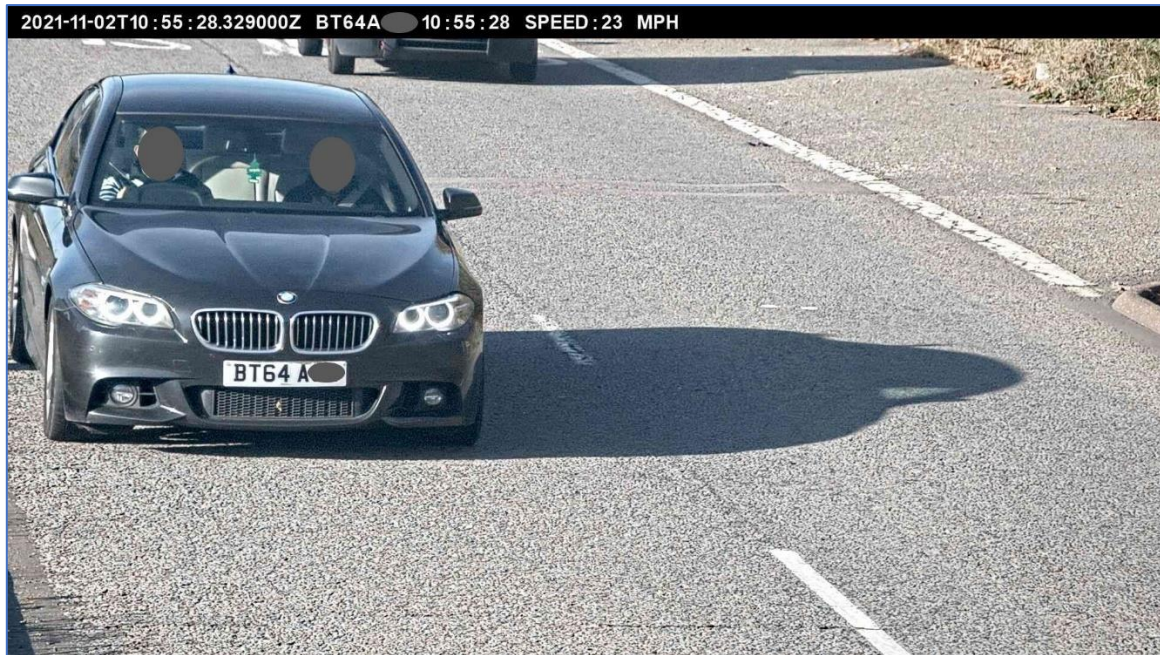


Vax-iSpeed is a separately licensable product available from Vaxtor which adds an instantaneous speed capability to the ALPR engine when running on board a suitable CCTV camera such as the long range Axis Q1700.



*Once configured, Vax-iSpeed uses multiple image-captures to determine the speed of the vehicle as it approaches.*

*Results can be saved locally or transmitted to Back offices such as Helix in real time.*

*The speed along with other vehicle metadata including speed can be written as a user-configurable watermark onto the transmitted image.*

**Platforms:**

- Axis cameras with Artpec-6 processors or above.
- Contact Vaxtor for details on other camera platforms.

**Requirements:**

- One camera per lane.
- Front reading for optimum accuracy.
- Maximum horizontal angle 15°.
- Vertical angle so that the car can be clearly seen travelling from top to bottom of the image.
- Heavy duty camera mount to protect against vibrations.

**Calibration**

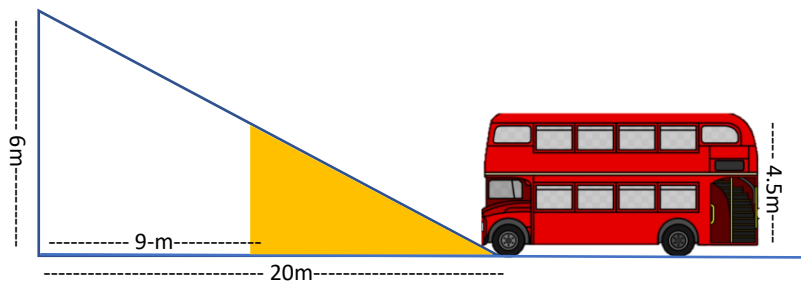
Once setup and working the system must be calibrated by driving a vehicle through the field of view at a fixed speed. Full instructions for use are included in the user manual.

## INSTANT SPEED MEASUREMENT

### Installation and Camera Positioning

Accurate speed results can only be obtained if the cameras are correctly installed and configured and the program will then use the precise timing and position of approaching plates approaching to accurately determine the speed of the vehicle to within a few percent accuracy. (A typical speed camera is normally only accurate to 10%). The software works best on front plates as these tend to be set at a consistent height from the ground.

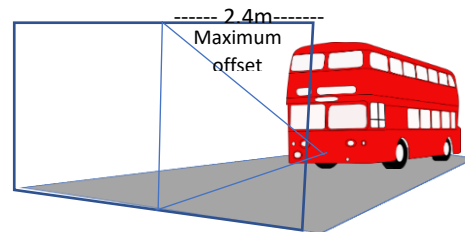
Cameras should be rigidly mounted 4-6 meters from the ground on a straight non-undulating road and vehicles read be between 15-20 meters for slow and urban deployments and between 20-30 meters for higher-speed measurements.




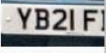

*Avoid road bends, speed-bumps, road junctions, traffic lights or roundabouts or anywhere where vehicles are likely to be accelerating or decelerating.*

*The detection area must NOT be on a bend in the road!*

*The maximum offset from the site of the road should be 2.4m and for two-lane use the camera should be gantry mounted centrally between the two lanes*



Results can be sent to multiple VMS and Back Offices including Helix which can be programmed to generate alarms on over speeding vehicles (in addition to its own speed-over-distance feature). If used say on a large site or campus where speeding is a problem, these on-screen alarms can also be sent securely to groups of users via the Telegram messaging service for instant on-site responses.

Capture date	Plate	Image	Status	Country	Direction	Speed
12/11/2021, 11:49:46	VK21O		Allowed	GBR	Getting closer	17
12/11/2021, 11:49:36	YB21F		Allowed	GBR	Getting closer	21
12/11/2021, 11:49:18	AK70U		Allowed	GBR	Getting closer	18

*Contact Vaxtor for more information on Vax-iSpeed and any other ALPR related products*