



ADVANCED TRAFFIC TECHNOLOGY
COUNTS, SEPARATES & CLASSIFIES IN **ALL** CONDITIONS

Technical Sheet No. 5

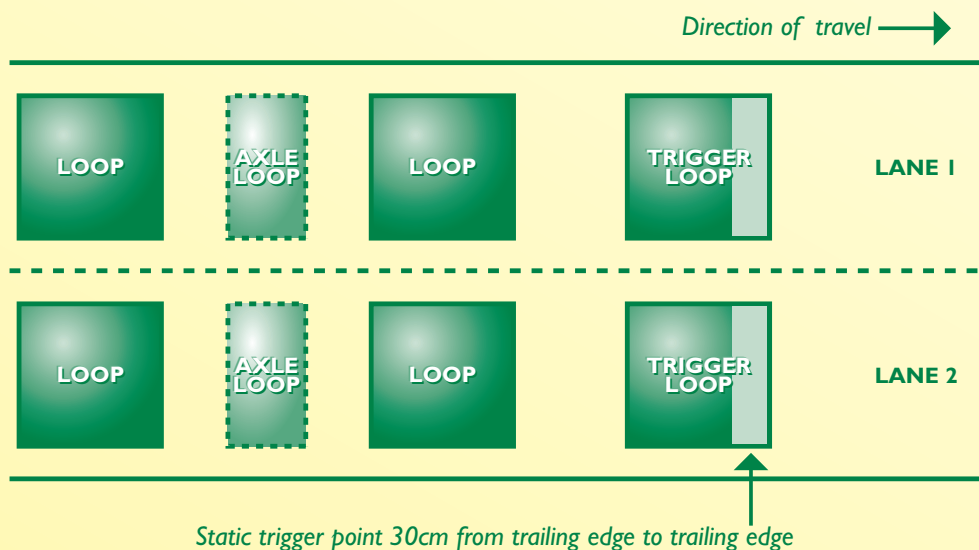
**VEHICLE
ENFORCEMENT
&
Idris®**

VEHICLE ENFORCEMENT SYSTEM (VES TRIGGER)

In tolling applications, toll enforcement is carried out by taking pictures of the license plate of offending vehicles. The Vehicle Enforcement System (VES) used for this process requires a camera trigger to capture a photograph of a violator's number plate. In order to maximise the capture rate of license plates the trigger position must be precise in all traffic conditions and for all vehicle types.

Idris has the ability to provide this type of trigger. The Idris trigger accuracy is better than $\pm 30\text{cm}$ but typically accurate to $\pm 15\text{cm}$ for all vehicle speeds, from stop-go to high speed ($>100\text{mph}$) and for all vehicle types from the smallest car to the largest lorry (truck). This ability to provide an accurate trigger applies equally in single and multi-lane environments.

LANE LAYOUT FOR VES TRIGGER IN CONGESTION



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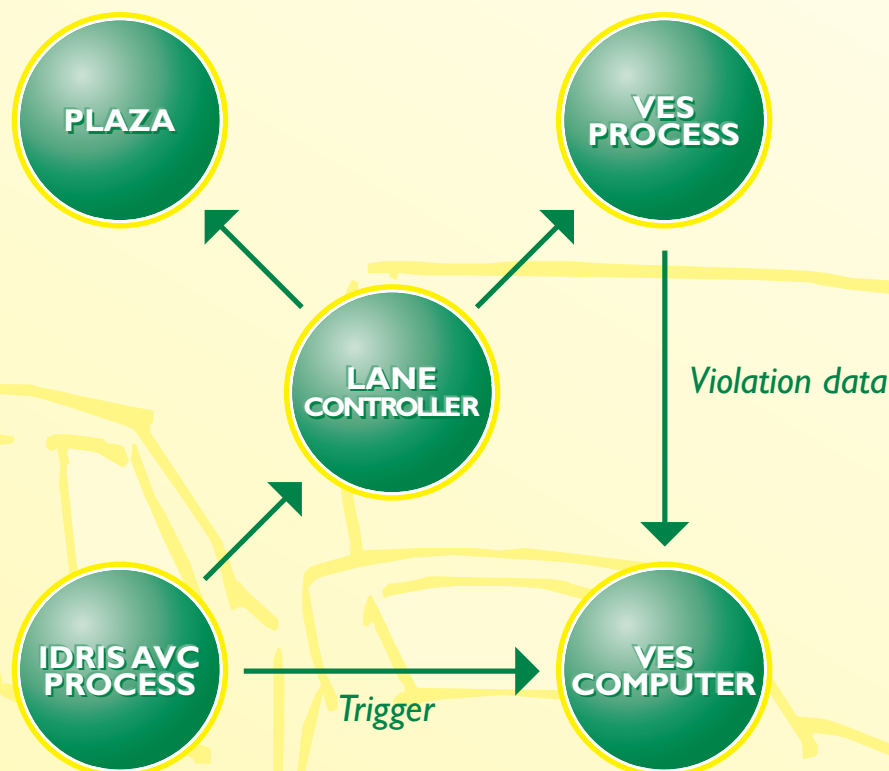
VEHICLE ENFORCEMENT & Idris®

Idris IS SPATIALLY AWARE

Idris can trigger a Vehicle Enforcement System (VES) by a digital (pulse) or over a serial interface.

Idris provides event identification to the lane controller for the trigger as well as vehicle data messages. This ensures the lane controller has the necessary information to associate the correct license plate image to the relevant vehicle data. Idris knows at all times where vehicles within its sensors purview are located - both along the road and across the road. We say that Idris is "spatially aware". Idris uses its knowledge to precisely locate triggers, both in time (along the road) and with straddle and lane information (across the road).

Idris TRIGGER & DATA PROCESS



The Idris Technology is protected by one or more of the following patents:

EP0879457, USA 6345228, 6337640 and 6483443

Patent Applications Pending in other Countries

Idris® is a registered trademark of Diamond Consulting Services Ltd.

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