

# Tolling expertise from a very British company...no bull!



made in Britain, developed in Britain...used Worldwide!

## Field-proven patented technology for tolling...

SINCE 1996, Diamond Consulting Services (DCS), a British company, has been researching and developing a multi-lane tolling system capable of use in all tolling environments. Idris® is a patented technology based on advanced loops and computer software technology. It was originally developed for UK Shadow Tolling and has been developed into a world beating automatic vehicle classification system that enables accurate toll collection and enforcement.

In 1998 DCS was awarded a UK Government Smart Grant to develop axle recognition within Idris®. Then in 2003 received a Smart Award for their technical and commercial achievement.

Through the development & implementation of Idris®, DCS are acknowledged as experts in the US tolling market – the largest and most technologically advanced tolling market in the world.

### **An Idris® System provides:**

Accurate vehicle counts, lengths & separation;  
Distinguishes between towing & tailgating vehicles;  
Axle based automatic vehicle classification;  
Tag correlation;  
Enforcement triggers.  
All from a single sensor technology –

### **LOOPS**

**What other single sensor technology gives you all this & enforces it?** Idris® has the ability to pinpoint the location of front & rear license plates to initiate a VES trigger.

**What other single sensor technology functions with the same accuracy regardless of environment?** Idris® unique straddling algorithm ensures accurate separation even in multi-lane express toll installations. Idris® is not affected by weather conditions and is accurate in all traffic from congestion to free flow.

**What other single sensor technology operates in all types of tolling application?** Idris® is available as an embedded or boxed

solution. It operates in ETC systems in single lanes, manual lanes or a combination of lanes. Idris® can be used for pre or post class applications and supports reversible lanes. The system is low maintenance with a high MTBF.

**The system is suitable for all tolling environments such as:** Open road tolling (ORT) using AVI tags, electronic toll collection (ETC) in single lanes, manual toll lanes or any combination of these.

Idris® is in use on highways in Europe including Spain, Portugal, Croatia, Madeira, UK, and throughout the USA.

### **Idris® Support Partners include:**

ACS Sate & Local Solutions.  
Conservación y Sistemas. Grupo FCC.  
Information Methods Inc.  
Traffic Technologies Inc.  
Peek Traffic Corporation.  
OSI Laserscan.

*The above companies all have trained Idris® engineers who are capable of implementation, integration and support of the Idris® Technology.*

*The Idris Technology is protected by one or more of the following patents: EP0879457, USA 6345228 and 6337640 Patent Applications Pending in other Countries. Idris® is a registered trademark of Diamond Consulting Services Ltd.*

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