

## Application Study – AGD 350 Traffic Control Radar Legacy Loop and Magnetometer Replacement

### Requirement

All around the world, intersection and crossing control have come to rely on the ability of loops and magnetometers for in-road detection. There are problems with these intrusive technologies however. Every installation needs a road crew to close the junction and either drill holes or cut loops into the road surface, digging trenches and laying cables. Complex radio setups are often required too. Not only does this require capital expenditure to buy and install the equipment, there's also the constant operating expenditure required for maintenance as weather and traffic take their toll. Add to this the effects of junction closures on traffic flows that go with all intrusive in-road installations – even for a battery change – and possibly the biggest limitation: the inflexibility of the technology. For example, as traffic speeds change we can't move loops to maximise traffic flows and improve pedestrian safety, so potential efficiencies are lost.

### Solution

The use of new, non-intrusive radar solutions can solve these issues. The AGD 350 Traffic Control Radar has the power to transform intersection detection where one unit can emulate multiple inductive loops in multiple lanes. Building on the strengths of its successful enforcement-grade predecessor which is currently being used around the world for violation detection, the 350 is a multi-lane stop line and approach detector that removes the need for loops, and allows for improved safety and traffic control.

The 350 Traffic Control Radar has been designed for use in a number of intersection control applications. Detecting stationary traffic, it can simulate up to 12 inductive loops over multiple lanes at up to 100m from the radar. Ideally suited to MOVA and other junction control applications, the radar is easily mounted on existing signal infrastructure saving money on traffic management, ducting and cabling and ongoing maintenance. Virtual-loop occupancy information is fed into road side controllers with AGD's new Janus8 ITS interface card or the radar's native dual opto-output.



- Non-intrusive Loop Replacement
- Low Install & Maintain Costs
- Simple AGD Touch-setup
- Dual Lane Stop Line Detection
- Intersection Approach or Zones
- MOVA Compatible with AGD 318 Radar
- Accurate Virtual-loop Technology
- Enforcement Pedigree
- Controller Interface

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Traffic & Pedestrian Control



*safer, greener, more efficient*

### Easy Install

Unlike intrusive detection solutions, the new 350 is easy to install and highly flexible, so when detection zones need moving or junction layouts change to improve traffic flows, the costs are a fraction of what they have been. The 350 comes with new AGD Touch-setup, a feature that allows any WiFi enabled device to configure an AGD detector without downloading software. Touch-setup displays what the radar can see, enabling the installer to simply drag and drop detection zones.

### Outcome

The AGD 350 is more cost effective to install than intrusive detection alternatives, removing the need for expensive ducting or creating weak points in the road surface. It is also virtually maintenance-free. With AGD Touch-setup technology, and its simple drag-and-drop configuration tool, the virtual-loops can be placed in moments and moved just as quickly.

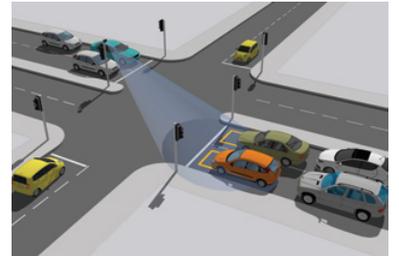
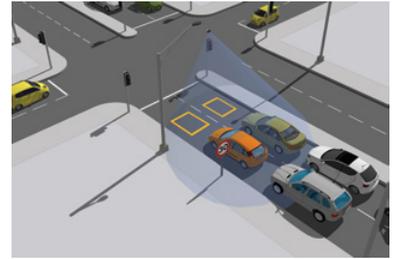
Offering accurate detection of multiple targets, flexibility and long life, the 350 platform will see future upgrades that continue to address the issue of intrusive detection and the need to occupy road space or cut into our increasingly valuable road surfaces.

The 350 will provide accurate year-round detection unaffected by light conditions, headlights, weather, or battery power loss - as sometimes seen with other solutions.

### Preview the Future

The AGD 350 Traffic Control Radar can be deployed on its own or with other detection to cover entire approaches to intersections or specific areas within them. Looking ahead, AGD aspires to completely replace expensive intrusive devices with a suite of flexible, high-reliability, lower TCO, proven radar technology that will inform the Smart Cities of tomorrow.

### AGD, product solutions for Intelligent Traffic Systems



Traffic & Pedestrian Control



Highways



Enforcement



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