

Enhanced monitoring and automation of proving ground test traffic

Ground Traffic Control™ (GTC™)



Ground Traffic Control (GTC) is the next generation software and hardware solution for monitoring, controlling, and coordinating vehicle testing on the track. It enables management of test traffic from a central base station, including ADAS platforms, robot-controlled vehicles and human-driven vehicles.

GTC enables you to visualise your proving ground on a satellite map and monitor traffic live. Real-time visibility and control of test objects makes GTC ideal when multiple teams are operating independently of each other. As well as enabling all test traffic to be centrally supervised, each team can have visibility of the movements of the other teams, enhancing situational awareness and track safety.

Multiple integrated redundant safety features will stop test objects in the event of an issue, and base station operators can always remotely command all testing to stop. Enabling GNSS collision detection can automatically stop tests to avoid collisions, or automatically modify test speed to ensure appropriate spacing of vehicles in durability environments. To further reduce the possibility of operator error, virtual boundaries can automatically enforce restrictions on the behaviour of vehicles within a defined area, such as limiting the number of vehicles entering or custom responses to vehicles losing connection.

GTC's features make it ideal for managing driverless durability and misuse testing, general proving ground monitoring and management, as well as multi-vehicle highway scenario testing.



Real-time monitoring of vehicles and other test objects from mobile and permanent base stations



Multi-screen support and customisable screen layouts for optimised monitoring



GNSS collision detection system monitors vehicle position, heading and speed to automatically avoid collisions



Python API enables integration with third-party applications



Easy set-up of geo-fenced areas which can be customised to trigger specific vehicle behaviour within virtual boundaries



Ideal for driverless durability and misuse testing and complex multi-vehicle testing



Supports multiple users with operator and view-only access levels



Compatible with AB Dynamics systems including driving robots, Flex-0™, LaunchPad™ and GST™ products

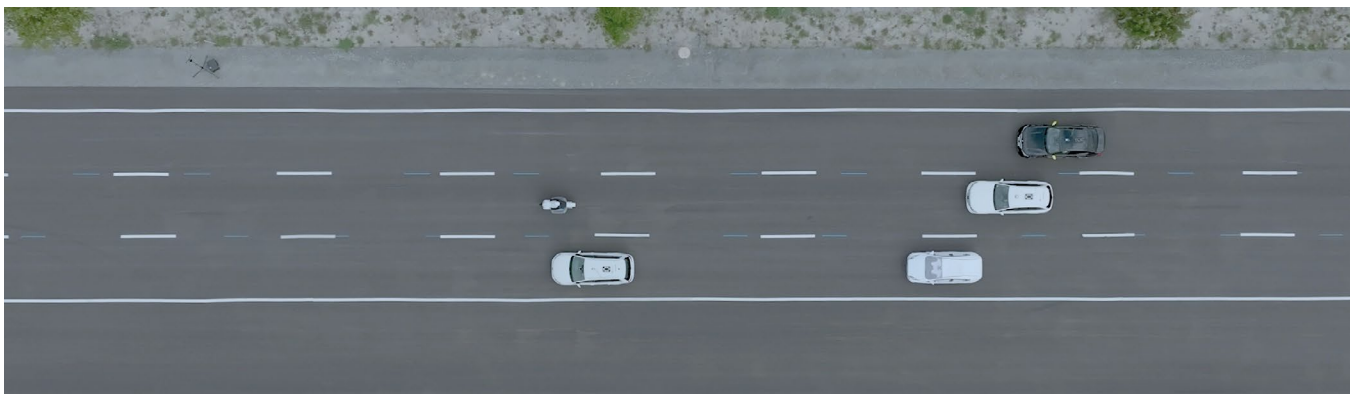
Specifications

Maximum number of connected vehicles supported	20
Products supported	All PowerPMAC based driving robots, Flex-0, LaunchPad and GST products
Types of user licences	Manager and Viewer
Concurrent base station users	Up to 12
Installation suitability	Mobile base station vehicle or permanent control tower

Mapping	Microsoft Bing Maps or high resolution proving ground image map
Themes	User definable vehicle colours
Real-time robot information display	/ Map view and vehicle cards / Customisable live robot data / Live inter-vehicle grid
Compatible accessories	/ USB abort button / Logitech driving force racing wheel and floor pedals / Microsoft Xbox controller / Logitech Extreme 3D Pro joystick / Thrustmaster USB joystick

GTC server hardware

Dimensions	187 x 137 x 42 mm
Weight	0.86 kg
Temperature rating	Ambient operating temperature: 0 to +45 °C
Power input	12V 2A supply provided by AB Dynamics



About AB Dynamics

AB Dynamics is a leading global provider of automotive test and verification solutions that facilitate the development of vehicles that are safer, more efficient and sustainable. As part of the AB Dynamics Group of companies we enable customers to develop and test in virtual environments, validate on the track and then evaluate vehicles on public roads.

For more information:
www.abdynamics.com
info@abdynamics.com

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