

Aviatrix Trigger Device

Overview

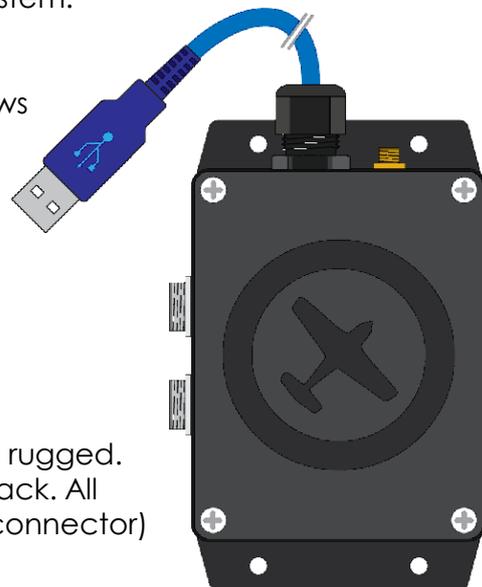
Aviatrix is a Flight Management System (FMS) created by AeroScientific. The system comprises the Aviatrix software (installed on a Windows PC) and a trigger device that connects the PC to multiple cameras. Many different cameras are supported by the Aviatrix system.

Aviatrix trigger device

The Aviatrix trigger device connects to the USB port on any Windows PC on which the Aviatrix software has been installed. It is powered through the USB port, so it doesn't require external power. The trigger device has three functions:

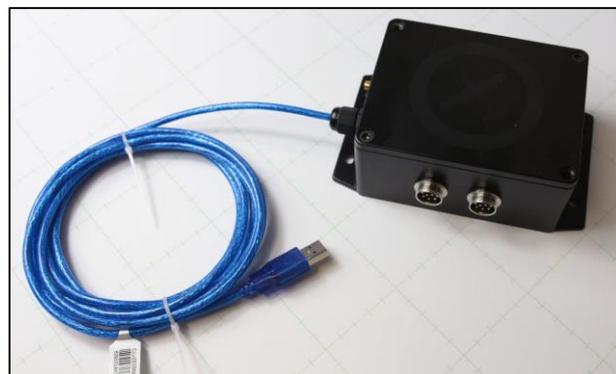
1. To send trigger messages to the cameras to acquire images
2. To detect feedback from the cameras when images have been acquired, and send that feedback to the computer.
3. To provide a 10Hz GPS signal to the Aviatrix software.

The trigger device has been designed to be small, lightweight and rugged. It is manufactured from aluminium, and powder coated in matt black. All of the connectors (camera trigger connectors and GPS antenna connector) screw down firmly.



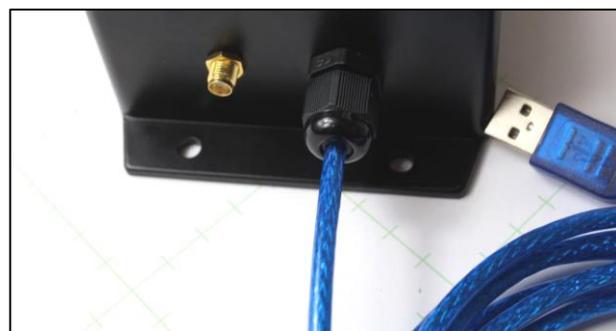
Key features

- Accurate triggering of cameras: cameras are fired as soon as the trigger command is received from the Aviatrix software
- Accurate camera feedback: mid-exposure pulses from the cameras are time-stamped to an accuracy of approx. 100µs
- Compatible with a range of cameras: trigger devices can be configured to send different types of trigger pulses to meet the requirements of specific cameras
- Ability to write GPS data to image EXIF headers (for compatible cameras only)
- Ruggedized enclosure and shielded USB cable



Specifications

GPS:	GPS/GLONASS receiver, compatible with standard/active antennas (SMA connector)
Dimensions:	150mm x 92mm x 55mm
Weight:	approx. 1kg (including cables and GPS antenna)
Power:	1W (5V 200mA supplied over USB)



About AeroScientific

AeroScientific (a business unit of Spatial Scientific Pty. Ltd.) creates software and hardware for aerial surveyors. The focus of our aerial imaging technology is the award-winning Aviatrix flight management and aerial camera control system. This is supported by our flight planning software: FlightPlanner. AeroScientific draws on many years of practical aerial survey experience, which has enabled us to create imaging systems that make aerial data capture significantly easier, cheaper, and more efficient than any other flight management system available today.