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Flight management
software and hardware for
airborne camera control

FlightCube: An airborne flight computer for the Aviatrix flight management system

The FlightCube is a cleverly designed flight computer developed specifically for use with the Aviatrix flight management and camera control system. It includes many important design features:

Powerful components: i7 processor, 8GB RAM, 256GB SSD, two drive bays for removable SSDs.

Internal triggering hardware, replacing the current AeroScientific external trigger box.

In-built GPS receiver, so no need for an external GPS. Use the antenna we supply, or use your own.

LEMO connectors, eliminating the risk of cables coming unplugged during flight.

In-built power distribution, 12-30VDC input, and four 12VDC power outputs for peripheral devices.

Clever design, small form factor (180mm cubic design), mounting holes on each corner, and carrying handles.

The Aviatrix flight management system and the FlightCube represent a powerful yet cost-effective airborne imaging solution.

Purpose-built for Aviatrix

The FlightCube has been specifically designed for the Aviatrix flight management system, and has evolved from many years of aerial survey experience. We've basically built the flight computer that we've always wanted. The all-metal enclosure is rugged and hardwearing. All components are fully grounded, minimizing electromagnetic interference from other aircraft systems. The internal GPS provides navigation data to the Aviatrix software, and will also ensure position data is written to the EXIF headers of captured images (please contact us for a list of supported cameras). Each panel of the Cube has four screw holes, which can be used to attached mounting brackets. The Cube can be mounted in any orientation to suit the internal layout of the aircraft. The FlightCube is powered by 12-30VDC, and will supply power (12VDC) to up to four other devices, meaning fewer cables in the aircraft. The combination of Aviatrix and the FlightCube represents a powerful yet cost-effective airborne imaging solution.

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Full specifications
- i7 processor with 8GB RAM and 256GB solid state drive
- Two drive bays for removable solid state drives
- Windows 10 Pro
- Aviatrix camera triggering hardware
- 10Hz non-differential GPS
  (High precision GPS will be available in the future)
- 6 x USB ports, 2 x ethernet ports, RS232, VGA, HDMI, DisplayPort
- 12-30VDC input power (90W)
- Output power (12VDC) for up to four peripheral devices (pilot's screen, cameras etc.)
- Sturdy aluminium case, fully grounded
- Cube shaped: 180mm x 180mm x 180mm
- Four mounting holes on each face

What's included:
- FlightCube, as per above specifications
- 110 / 240VAC power supply (for ground use)
- Power connector and lead (for airborne use)
- Trigger cables for two cameras
- GPS antenna

What you'll need to supply:
- Keyboard and mouse
- Monitors / screens
- Mounting brackets
- Solid state data storage drives (if required)
- Aviatrix software will be required

Please contact us (info@aerosci.info) for current pricing.

About the Aviatrix flight management system
Aviatrix is a flight management and camera control system created by AeroScientific. It has been designed specifically for use with commercially available medium format, mirrorless and DSLR cameras. Aviatrix has been created for use on manned light aircraft, either in single pilot operations, or multi-crew operations.

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.

AeroScientific is a business unit of Spatial Scientific Pty. Ltd.

www.aerosci.info