WINGMATE Data Manager

Specification Sheet

	Standard	Plus
Connections		
Connects to Dynon EFIS	-	✓
Recorded Data		
Lateral, Longitudinal and Vertical accelerations	✓	✓
Yaw, Pitch and Roll	✓	✓
Speed	✓	✓
Heading	✓	✓
Altitude	✓	✓
Angle of attack	-	✓*
Turnrate	-	✓*
VSI	-	✓*
Airspeed	-	✓*
Pressure altitude	-	✓*
General		
Power supply	9 to 34 Volt	
Temperature	-40 to +85 °C	
Serial bus (connects to EFIS)	-	✓
2 GB SD card	✓	✓
Viewer		
Export to Google Earth	✓	✓
Min and max of all sensors	✓	✓
Landing report	Standard	Extended
Take off report	Standard	Extended
Zoom functions	✓	✓
Trace selection	✓	✓

*Providing relevant sensor is connected to EFIS

Version# 01

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WINGMATE
AVIATION DATA & TRACKING

your best friend in the sky

Introducing WINGMATE

WINGMATE is a simple yet powerful data and tracking device designed to monitor an airplane's usage and improve the flying experience for both experienced and novice private pilots. Best described as a blackbox for light aircraft, WINGMATE features:

> flight data recorded directly onto an SD card
> GPS position, accelerations and speed recorded from in-built sensors
> a Google Earth export feature, and
> a user-friendly data viewer.

Wingmate Data Manager

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WINGMATE Data Manager

WINGMATE is the perfect tool for flight instruction, rental companies, aerobatics and, of course, private pilots. Recording GPS position, accelerations and speed from in-built sensors the WINGMATE Data Manager includes a data viewer that has an export feature which enables pilots to overlay each flight onto Google Earth. This function is designed to show exactly where the plane has been while also generating a summary report of the landing.

The data viewer shows all the sensor traces allowing pilots to analyse the data and review their performance. Accelerometer, gyro sensor and GPS data are always available and if an EFIS is connected, then airspeed, angle of attack and pressure altitude data is also presented.

When a flight is completed, load the SD card from the WINGMATE console into a PC to review and analyse the data via the user-friendly viewer.

Once you've installed a WINGMATE, you'll never fly alone again.

WINGMATE
AVIATION DATA & TRACKING

A selection of screens from the WINGMATE Data Viewer is provided below:

Google Earth Overlay

This screen capture shows how the WINGMATE Data Manager can overlay flight data onto Google Earth. Data captured also includes the landing report.

Standard Sensor Traces

The Standard WINGMATE module provides traces for Acceleration, Gyro, Heading, Speed and Altitude data.

Products

WINGMATE is currently available in two configurations:

The **WINGMATE Standard** unit provides six degrees of freedom data logging using three axis accelerometers and three axis MEMS gyroscopes. The in-built GPS unit provides global position, heading and speed.

The **WINGMATE Plus** unit is designed to connect to your plane's Dynon EFIS, and will record additional sensor data generated from the Electronic Flight Information System depending on setup and instrumentation.

WINGMATE records directly to an SD card making data transfer to a PC simple and easy. All you have to do is open it into the WINGMATE data viewer and you can start to analyse your flight immediately.

The WINGMATE data viewer presents a flight report containing a list of typical flight quality indicators, such as take off performance and landing quality.

The data viewer also displays all the sensor traces so you can analyse the data yourself.

WINGMATE units are easy to install, requiring only a 12 Volt power point. The power lead and antenna are included.