

AvMap Electronic Flight Information System - Technical Specifications

EKP V



SOFTWARE

- Horizontal / Vertical view
- Night Vision
- Flight plan vertical profile
- Full flight planning capability
- TAWS: Terrain Awareness and Warning System available worldwide
- Crossed Airspace Predictor and Advisor
- Safe Route predictor and advisor
- Full simulator functions
- Fully customizable display
- Editable aircraft checklist
- Customizable aircraft profiles
- Compatible with Collision Avoidance Systems
- Compatible with XM Satellite Weather*
- SAR

HARDWARE

- Dimensions: 110mm x 172mm x 21mm (4.3" x 6.8" x 0.8")
- Weight: 400 g (14.1 Oz)
- Display: 7" (16:9) 4.75" x 7" x 1.5" Color LCD TFT
- Resolution: 800 x 480 pixels
- Built-in u-blox 6 high sensitivity GPS receiver with WAAS position accuracy
- RAM: 512 MB
- Micro SD preloaded with software and maps
- Power supply: external 10/35 V DC with cable adapter
- Battery: lithium-Ion, removable, rechargeable
- Consumption: max 10 Watt
- Speaker
- USB OTG master / slave



* Function available in North America

AvMap EFIS Total weight
859 gr
30.3 Oz

A² ADAHRS

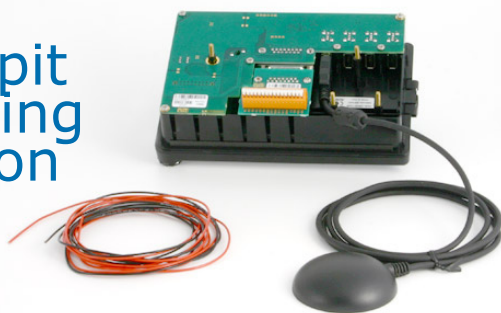


FEATURES

- Dimensions (mm) 70 x 60 x 35 / (in) 2.76" x 2.36" x 1.38"
- Weight < 50 g / 1,8 Oz
- Operational Temperature -25°C to +85°C / -13°F to +185°F
- 3-axis gyros, accelerometers and magnetometers
- Acceleration range (3 axis) +/- 8 g
- Rotation Range +/- 1600 deg/s
- Air data sensors: range 10 to 250 kts, -1000 to 40000 ft
- Advanced data fusion capability
- USB Interface (1.5 m cable)
- UAV Navigation® technology inside



Cockpit Docking Station



FEATURES

- N. 2 serial ports (1 x RS-232, 1 x TTL levels)
- N. 4 USB 2.0 OTG (1 x powered by EKP V internal battery)
- Video input - Video composit signal PAL or NTSC
- Audio input and output
- Socket vibration proof for power supply AVG 16
- Aeronautical grade wires
- Temperature Range -20 + 70 °C / -4°F to +158°F
- u-blox 6 high sensitivity external GPS Receiver, WAAS enabled
- Power supply 10 - 35 VDC (28W max)

Headquarters:

AvMap S.r.l.
Viale Zaccagna 6
54033 Carrara (MS) ITALY
info@avmap.it

North America:

AvMap Navigation
29 Simpson Lane, Unit 3
Falmouth MA 02540, USA.
info@avmap.us

South America:

AvMap do Brasil Ltda.
Rua Professor Getúlio Nogueira de Sá, 51
CEP: 13208-180 Jundiá, São Paulo, SP, Brazil.
info@avmap.com.br



AvMap devices are not IFR certified and are intended for VFR navigation only
Images are for illustrative purpose only. Aspect may vary without notice.



AvMAP Electronic Flight Information System

➔ AvMap EKP V

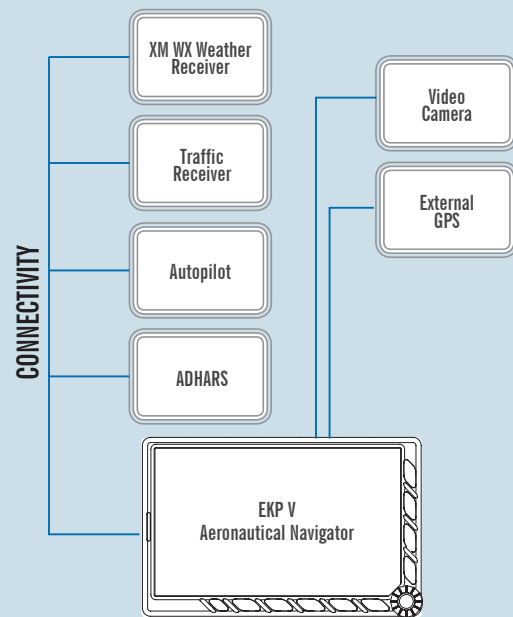
Glass Cockpit System:
Navigation, Primary Flight Display,
Electronic Flight Bag.

➔ AvMap A2 ADAHRS module

Air Data, Attitude and
Heading Reference System.

➔ AvMap Cockpit Docking Station

Cockpit Integration and connections hub.



AvMap Electronic Flight Information System

The AvMap EFIS is easy to install, light, versatile and cost effective. The system is composed of:

- **AvMap EKP V**, that acts as an integrated cockpit display and central processing unit.
- **AvMap A2 ADAHRS**, a compact module providing attitude, heading, altitude and airspeed data to the system, extending the functionality of the EKP V.
- **AvMap Cockpit Docking Station**, that allows the EKP V to be installed into the cockpit and provides connectivity to external modules.

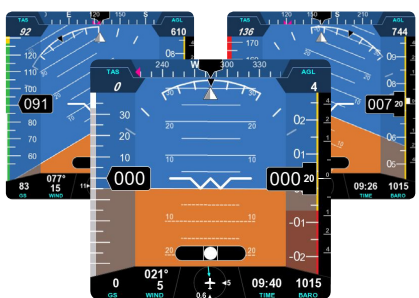
EKP V



EKP V: Glass Cockpit System: Navigation, Primary Flight Display, Multifunctional display, Electronic Flight Bag. All you need in a single device

- A brilliant fully sunlight viewable 7" display, with built-in battery and GPS, only 0.8" thick.
- Advanced flight management capability and the most complete maps, including approach plates and airport diagrams. VFR charts are also available for purchase.
- A centralized display for both navigation and primary flight information.

A² ADAHRS

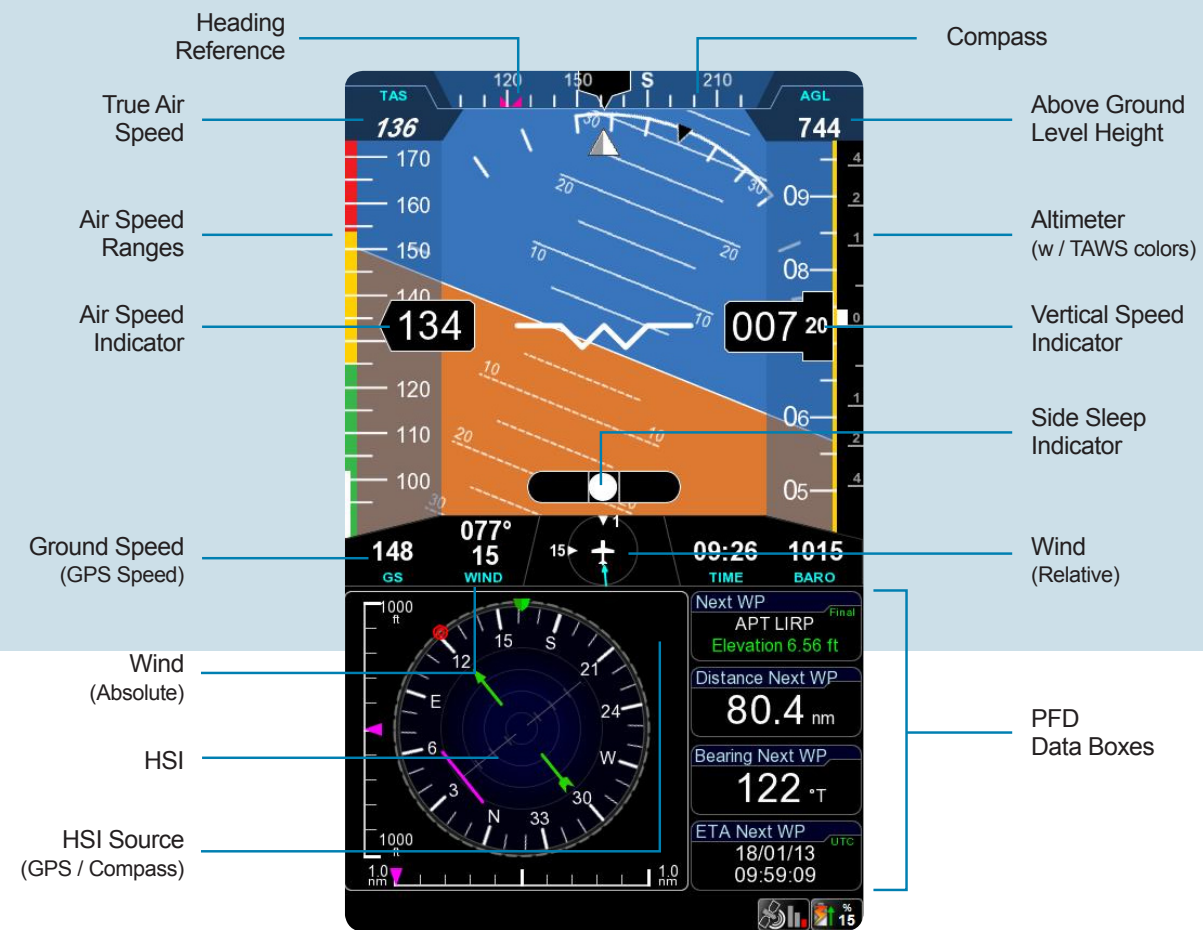
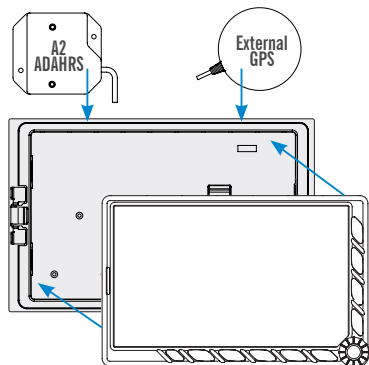


AvMap A2 ADAHRS: Bring attitude and airspeed to your favorite moving map!

- The AvMap A2 ADAHRS is a compact fixed-install module providing Air Data, Attitude and Heading Reference. It connects to the docking station via USB and provides information that are displayed on the EKP V LCD.
- The module contains solid-state gyros, accelerometers, magnetic field sensors and air data sensors; it should be connected to the aircraft pitot-static system, in order to take full advantage of its functionality.
- Designed for light-sport, ultra light and experimental aircrafts, the small and light weighted module can be installed in any orientation (thereafter a proper calibration procedure must be performed).

Cockpit Docking Station: Seamless integration

- EKP V is intended to be both a cockpit-installed instrument and a portable device. The Cockpit Docking station is conceived to mechanically host the EKP V becoming the hub of all electrical connections of the integrated avionic system.
- The Docking Station provides multiple ports to interface the EKP V with several on board avionics such as: A2 ADAHRS, third-party autopilots, video cameras, WxWorx™'s XM WX or CAS units.
- All the advantages of the integration plus the advantages of portability: you can remove EKP V from the plane for home playing, theft prevention, training school briefing, debriefing, etc.



EFIS - features

- Airspeed and Altitude from pitot-static system
- Attitude, side slip and heading information
- Integration of TAWS into the PFD with AGL Altitude indication
- Wind indicator with wind components
- Clear HSI display linked with EKP V flight planning function
- Customizable data fields
- PFD settings: Altimeter reference, Heading reference, Aircraft specific V-speed reference value (aircraft profiles).

ADARHS - data

- Attitude (roll, pitch and heading angle)
- Airspeed
- Altitude
- Wind estimation
- Side slip indication
- Vertical Speed



Easy updates with AvMap Suite

Simply connect EKP V to the PC / MAC and use the AvMap Suite free application to:

- Update EKP V software for free
- Update EKP V maps
- Import flight plans, user points and tracks
- Import custom raster maps.