Dynon Avionics Product Ordering Guide/Price List

Product Descriptions:

Introduction

Dynon Avionics offers two panel-mounted product lines:

- The SkyView System with 7" and 10" displays
- The D10 and D100 Series with 4" and 7" displays (EFIS-D6, EFIS-D10A and EMS-D10, EFIS-D60, EFIS-D100, EMS-D120, and FlightDEK-D180)

Plus accessories that work with any of these product lines both SkyView and the D10/D100 series:

- Pitot Probes
- Engine Monitoring Kits and Sensors
- Autopilot Servos and Mounting Kits

EAA STC for EFIS-D10A and EFIS-D100

Overview

EFIS-D10A and EFIS-D100 systems can be installed into certain type certificated aircraft via the EAA's STC. The STC itself is purchased from EAA. The EFIS-D10A and EFIS-D100 products and required/optional accessories may be purchased from Dynon Avionics or any if its dealers.

Parts Required for Installation

The EAA STC specifies part number 102778-000, which is the super-set of acceptable components for installing a Dynon EFIS in eligible aircraft. Per the Instructions for Continued Airworthiness for the EAA STC, some of those components are required, while some are optional. As of August 2016, those are:

- **Required Components**
    - EFIS Unit. Either of:
        - 100538-000: Dynon EFIS-D10A System, Retail
            - (Includes EFIS-D10A, 100321-000; Mounting Accessories, 100351-000; Short 7/64 Hex Wrench,100556-000)
        - 100534-001: EFIS-D100 with Super-Bright Screen, Instrument only, Retail
            - (Includes Instrument,100488-001; 7/64 Hex Wrench, 100556-000)
    - 100096-000: Dynon Internal Backup Battery for D10/D100 Series
    - 102827-000: Dynon GPS-251 GPS Receiver/Antenna Module for D10/D100 Series
- **Optional Components**
    - 100323-000: Dynon EDC-D10A Remote Compass
    - 100433-001: Dynon OAT Probe for D10/D100 Series (optional, requires EDC-D10A)
    - 100141-000: Dynon AOA/Pitot Probe, Unheated (optional)
    - 102832-000: Dynon Simplified Wiring Harness for D10/D100 Series w/ GPS-251 support (optional)

- o 100422-000: D100 Series Mounting Tray
  - (although technically "optional" for the STC, The D100 requires this mounting tray for all practical purposes)
- o 100024-000: D10 Series Flush Mount Bracket

SkyView System

Overview

SkyView is an integrated glass panel avionics system. Its capabilities include Primary Flight Display (PFD) information, Engine Monitoring, GPS moving map with procedure and en-route charts, two-axis approach-capable Autopilot, Mode-S Transponder with 2020-compliant ADS-B Out capability, ADS-B Traffic and Weather (US only), COM Radio, and more. SkyView Touch offers a touchscreen option in the 10" display format only. SkyView SE systems offer a streamlined and simplified experience for pilots of simple VFR aircraft.

System Architecture

Displays

SkyView displays are offered in both 7" and 10" sizes. They offer superior resolution and exceptional readability from all cockpit angles and in all lighting.

SkyView is offered in a few versions. SkyView SE is a simplified version of SkyView that offers primary flight instruments, engine instruments, autopilot, ADS-B Out compliance, and more, but omits navigation mapping capabilities, synthetic vision, and some other capabilities. SkyView Classic and Touch displays offer the full range of capabilities. SkyView HDX - the latest flagship offering from Dynon - features new hardware with improved design, an updated user interface that features an angled bezel for improved control when using HDX's buttons and knobs, and clear, vibrant displays that are the brightest and highest-resolution Dynon has ever offered. SkyView HDX's touchscreen interface has also been significantly redesigned.

SkyView Classic and Touch displays (SV-D700, SV-D1000, and SV-D1000T) displays can be mixed and matched in a panel. Skyview SE systems can only connect to other SkyView SE SV-D600 and SV-D900 displays. They cannot be connected to SV-D700 and SV-D1000/SV-D1000T displays in the same aircraft. SkyView HDX displays (SV-HDX800, SV-HDX1100) displays do not connect to non-HDX displays. All displays use the same set of back end SkyView modules and accessories.

Each SkyView connects to other SkyView displays in the panel via Dynon's redundant SkyView Network. SkyView Network has dual data pathways that let SkyView tell you about incipient physical wiring faults before they have any effect on system performance. SkyView Network-enabled modules include the SV-ADAHRS-200/201, SV-EMS-220/221, SV-ARINC-429, SV-COM-C25, SV-KNOB-PANEL, SV-AP-PANEL, and SV32/42/52 Autopilot Servos. Other SkyView components such as the SV-ADSB-472 ADS-B receiver, SV-XPNDR-26X Mode-S Transponders, and the SV-GPS-250/2020 connect via RS-232 serial connections that are also redundant: unlike any other system, multi-display SkyView systems can continue to communicate with serial products with no loss of capability as long as any single display remains available. Multiple displays can be driven by a single ADAHRS module, and all can receive data from the Engine Monitoring Module and GPS Receiver.

Some modules and features are not available with SkyView SE's simplified system feature set. See www.DynonAvionics.com for detailed information about SkyView SE's capabilities. Additionally, major components that are compatible with SkyView SE systems are annotated with the **SE** in the price list. Smaller items such as harnesses and engine sensors are compatible with all all systems.

Terrain and Basemap Databases

SkyView Displays contain enough internal memory to store high-resolution terrain data for a region covering thousands of miles. SkyView displays have North American high resolution terrain data pre-installed, but users may download any region of the earth to cover their location with plenty of room in every direction. Regional downloads are available for free on the Dynon Website at http://downloads.dynonavionics.com.

Similarly, free basemap databases contain major roads, cities, rivers, and other cultural data for display on the SkyView map. North American basemap is pre-installed, and other regions can be downloaded from http://downloads.dynonavionics.com.

Battery Backup

SkyView can be equipped with a separate backup battery for each display in the system. Each backup battery is capable of powering its own display plus all core SkyView Network modules in the SkyView system. Note that higher current draw SkyView products are powered directly by your aircraft power. These include the SV32/42/52 Autopilot Servos, SV-COM-C25 COM Radio, SV-XPNDR-26X Mode-S Transponder, and SV-ADSBB-472 ADS-B receiver.

When equipped with backup batteries and in the case of an aircraft electrical failure, SkyView operates independently of all aircraft systems except for pitot and static. In the unlikely event of loss of pitot airspeed data, GPS ground speed is automatically substituted for airspeed.

ADAHRS Module (SkyView Network Device)

The SkyView Air Data, Attitude, Heading Reference System Module combines Dynon's tested and proven solid-state attitude references with an integral magnetometer in a single package. Because the aft portion of the fuselage – aft of the aft cabin bulkhead – tends to be relatively isolated from magnetic interference, it is often the installation location of choice in aluminum and composite aircraft. This location allows you to route pitot, static and optional angle-of-attack tubes to the aft fuselage rather than to the rear of the instrument panel.

Remote Magnetometer

SkyView's ADAHRS has an internal magnetometer, but it can be challenging to find a place in some aircraft that satisfies the placement requirements for the attitude sensors, has convenient pitot/static routing, and is located in an area free of magnetic interference. For those aircraft, Dynon Avionics now offers a Remote Magnetometer that allows the installer to locate the heading sensors in a location that is magnetically benign. This then lets the installer locate the ADAHRS free from magnetic interference constraints. When the Remote Magnetometer is installed, magnetic heading is derived solely from the magnetic sensors in the magnetometer. The magnetometer sensors in the any ADAHRS installed in the aircraft are disabled. When you have the magnetometer installed, you may similarly opt to connect your OAT probe there instead of to your ADAHRS(s).

Engine Monitoring (SkyView Network Device)

SkyView utilizes a separate Engine Monitoring Module to connect to all engine and fuel system probes. This module is designed to be mounted on the cabin side of the firewall, eliminating the need to run probe wires to the back of the instrument panel. That mounting can be particularly beneficial for rear-engine aircraft.

The SkyView Engine Monitoring Module connects with all of the standard probes provided in our prepackaged engine probe kits. For those customers upgrading to the SkyView system from our D10/D100 Series EMS devices, the engine probe harness connectors will transfer directly to the SkyView Engine Monitoring Module with minor modifications.

Complete monitoring of up to six CHT and EGT probes is possible with the Engine module. However, a total of 14 J- and K-type temperature probes are supported, so that any combination of 14 CHT and EGT probes may be monitored. Additionally, a second EMS module can be utilized in one of two ways. A second EMS module can be used to monitor dual engines (each engine will be displayed on a single SkyView display). Or, a second EMS module can be used to extend the EGT/CHT thermocouple monitoring capabilities to a total of 28 total CHTs and EGTs. This allows complete monitoring of engines with more than 6 cylinders - such as the popular 9-cylinder M14 radial engine.

ARINC-429 Module (SkyView Network Device)

The SV-ARINC-429 makes SkyView compatible with certified GPS receivers, integrating with such radios as the Garmin GNS 430/530 and GTN series. This includes advanced features such as GPS steering, CDI auto-scaling and vertical guidance from WAAS-enabled GPS receivers. This module also enables the full suite of G430/530 VOR and localizer NAV radio functionality. GPS flight plans from many ARINC-connected devices can be displayed on SkyView – both visually on the map and in their textual list form. The SV-ARINC-429 module is not compatible with SkyView SE.

Mode-S Transponder (Serial Device)

An integrated Mode-S transponder that saves panel space with control and annunciation appearing on the SkyView displays. The lightweight transponder module can be mounted anywhere in the airplane that is convenient. The SV-XPNDR-262 is only suitable for aircraft that do not exceed 15,000 feet altitude and/or 175 Knots airspeed, and is not recommended for US customers (see note below). These transponders receive TIS Traffic (USA), and the SV-XPNDR-261 will meet the USA ADS-B Out Mandate. Full US ADS-B Out compliance requires a compliant GPS position source such as our SV-GPS-2020.

The SV-XPNDR-26X modules require coax cable which we do not sell. Dynon does have an antenna available for purchase; see the SkyView Installation Manual for further information.

NOTE ON U.S. COMPLIANCE: Current FAA regulations only allow the higher power Class 1 transponder (SV-XPNDR-261) to be used as an ADS-B out device in order to meet the 2020 ADS-B Out equipage mandate. Therefore, US customers planning on flying in ADS-B rule airspace should only purchase the Class 1 SV-XPNDR-261 transponder. If you do not plan on using your Dynon transponder as your eventual ADS-B Out device, you may choose either Dynon transponder model.

SkyView GPS Antenna/Receiver Options

SkyView has two GPS Antenna/Receivers available.

The SV-GPS-2020 is a high integrity GPS that - when paired with the SV-XPNDR-261 – allows SkyView and Advanced Flight Systems customers to meet the 2020 ADS-B Out requirements. Therefore, Dynon recommends the SV-GPS-2020 and the SV-XPNDR-261 for all US customers that intend to fly in ADS-B rule airspace. At this time, Dynon does not make any assurances that the SV-GPS-2020 will be suitable for ADS-B or other high integrity uses outside of the US.

The SV-GPS-250 is a 5 Hz WAAS GPS receiver. It is suitable for customers that do not need the SV-GPS-2020 for ADS-B Out compliance (such as non-US customers).

ADS-B Dual Band Traffic and Weather Receiver (Serial Device)

A lightweight remote mounted receiver for ADS-B IN information that utilizes an externally mounted antenna for superior ADS-B reception. The SV-ADSB-472 provides subscription-free weather displayed on SkyView, including NEXRAD radar, METARs and TAFS, and winds aloft. It also receives ADS-B TIS-B traffic with precise location, altitude, speed, and direction. The new SV-ADSB-472 also receives via both the UAT (978 MHz) and 1090 MHz frequencies, in contrast to the now-discontinued UAT-only SV-ADSB-470.

For best traffic reception, note that the SV-ADSB-472 requires that an ADS-B Out device such as a SkyView SV-XPNDR-261 Mode-S Transponder be part of the SkyView system. Weather reception works with or without ADS-B Out capability.

The SV-ADSB-472 module requires a separate external antenna (available from Dynon) and coax cable (which we do not sell); see the SkyView Installation Manual for further information. The SV-ADSB-472 module is not compatible with SkyView SE.

SkyView VHF COM Radio (25 kHz & 8.33kHz) (SkyView Network Device)

An integrated COM radio which allows pilots to tune by airport and station type - rather than by spinning in a number from the panel mounted control head – by utilizing SkyView's aviation database capabilities (requires navigation mapping software). The SkyView COM Radio consists of a dedicated control panel and a remote-mounted transceiver module.

The SkyView COM Radio module requires a separate external antenna and coax cable which we do not sell; any antenna suitable for use with an aircraft COM will work. Please note that the SV-COM-C25 is 25 kHz spacing only and works in the US and other countries with 25 kHz spacing systems. The SV-COM-C25 is not TSO'd. The SV-COM-X83 is 8.33 kHz spacing and does use a TSO'd remote transceiver module. The SkyView COM Radio does need to be installed with a Dynon SkyView System.

SkyView Knob Control Panel (SkyView Network Device)

The SV-KNOB-PANEL Knob Control Panel adds dedicated controls for the items that you adjust most. Altitude bug and heading/track bug knobs are often-used to direct the autopilot or as reminders when hand-flying, and the BARO (altimeter setting) is one of the most frequently-adjusted items in the cockpit. The SV-KNOB-PANEL has two SkyView Network ports to let you chain devices in and around the panel without adding additional SkyView Network hubs or splitters.

SkyView Autopilot Control Panel (SkyView Network Device)

The SV-AP-PANEL has dedicated buttons for all autopilot modes, including the flight director and level mode. It also has an integrated two channel trim controller that eliminates the need to equip with relay decks for trim control. The trim controller has SkyView-adjustable airspeed based speed scheduling that can slow down trim motor movements as airspeed increases. This allows you to attain consistent trim change for a given trim adjustment duration. Safety features include trim runaway protection, pilot command priority override, and unlike competing systems, the trim controller does not depend on the autopilot servos and continues to operate independently of them. It's even able to continue operation without SkyView as long as it is receiving aircraft power.

The SV-AP-PANEL has two SkyView Network ports to let you daisy chain devices in and around the panel without adding additional hubs or splitters.

Note that although the SV-AP-PANEL can be used for trim control and autopilot auto-trim capabilities in SkyView SE systems, SkyView SE's simplified operation inhibits all of the control panel buttons. In SkyView SE systems the SV-AP-PANEL would most likely be used a blind/remote installed module to enable trim control and autopilot auto-trim features.

Video Input Adapter for SkyView (USB)

SkyView Video Input Adapter plugs into a SkyView USB port and allows you to display any S-Video or Composite video source on your SkyView display in full screen or half screen modes. The SkyView Video Input Adapter must be plugged in before the display is turned on and remain plugged in for the full flight to view video on the connected display. In a multiple display system, one Adapter must be used on each display that you want to show video on; they do not share the video over the network. Dynon Avionics does not supply cameras or other video sources, or cabling associated with video devices. The video device will require power that is not supplied or controlled by SkyView.

Please Note: The Video Input Adapter is only compatible with SkyView SV-D1000T Touch displays, SV-D1000 displays serial number 6000 and higher, and SV-D700 displays serial number 4000 and higher. The Video Input Adapter is not compatible with SkyView SE systems.

Wi-Fi Adapter for SkyView (USB)

The Wi-Fi Adapter for SkyView allows SkyView to connect to wireless devices such as tablets and phones. This allows SkyView to exchange flight plans and send other information like ADAHRS and GPS position. As of SkyView 12.0, we've Dynon has partnered with ForeFlight to bring this connectivity to the ForeFlight Mobile App. You must have a Wi-Fi Adapter connected to every display in your aircraft to enable Wi-Fi connectivity. The Wi-Fi Adapter is not compatible with SkyView SE systems.

Main Harness

Each display comes with a D37 Main Harness. This harness includes a USB connector on 3 foot leads, one NMEA serial connector for GPS input, 4 general purpose serial connections, backup battery connector, audio outputs, four discrete general purpose inputs, a panel dim input/output, primary power and primary ground. The Main Harness can be purchased separately if desired for early installation.

Network Connections

Displays and SkyView Network modules are connected via straight-through 9-pin cables. SkyView Network connections feature dual-redundant data and power connections, and SkyView will notify you of incipient wiring issues before they affect system performance at all.

We recommend the Dynon SkyView Network cables because they have the correct wiring and are made of aircraft quality Tefzel® wires. The SkyView Network is a true bus, so you can make as many network connections as desired. The autopilot servos can be connected via the SkyView Network cables but require that power and ground connectors be broken out separately to be connected to their own electrical bus circuit-breaker or fuse. A special Autopilot Servo Network wiring kit is available.

Note: SkyView Network connections are needed between all Displays, ADAHRS Modules, EMS modules, ARINC modules, Autopilot Servos, Knob Panels, Autopilot Panels, and SkyView COM radios in the aircraft. SkyView displays, SV-KNOB-PANELs, SV-AP-PANELs, and COM radios all have two SkyView Network connectors to allow easy chaining, while all other modules have one SkyView Network connector. Cables listed with the descriptor "1 end with pins only" are shipped with the second

connector not attached to the cable for ease of routing, but the connector is included to be fitted with the pins once routing is complete. The SV-NET-HUB is a 5 port hub that allows multiple SkyView Network connections to be easily made. In a two-display system, one of the two SkyView Network connectors on each display is usually connected to the other, while the remaining connectors (one per display) go to other devices, via a SV-NET-HUB if more than two more non-panel-mounted SkyView devices are installed in the aircraft. Additionally, the dual SkyView Network connectors on the COM Radio panel, SV-KNOB-PANEL Knob Control Panel, and SV-AP-PANEL Autopilot Control Panel allows these products to be chained up to all other devices that may already be collocated behind the panel - often an EMS or ARINC module. Essentially, adding panel-mounted SkyView components have zero net effect on the amount of SkyView Network splitters or hubs that are required in the aircraft.

SkyView systems with multiple displays should also have their Ethernet ports connected together with an Ethernet cable such as the SV-ETHERNET-3CC. The Ethernet connection between SkyView displays is made *in addition* to the 9 pin SkyView Network connections. Dynon Avionics strongly recommends "Low Smoke Zero Halogen" Ethernet cables for use in aircraft. A Low Smoke Zero Halogen Ethernet cable is available from Dynon Avionics (SV-ETHERNET-3CC). Contact Dynon Avionics for additional information if your aircraft has more than two displays.

Devices in this ordering guide labeled "Serial Device" do not utilize SkyView Network for data connectivity, but instead utilize one of SkyView's five serial ports provided for on the SkyView main wiring harness (one included with each display). And unlike any other system, multi-display SkyView systems can continue to communicate with serial products with no loss of capability as long as any single display remains available.

See the SkyView Installation Guide for more details about SkyView Network and Ethernet connection requirements.

Navigation Mapping Software

The SV-MAP-270 Navigation Mapping Software is now included with SkyView Classic, SkyView Touch, and SkyView HDX displays as of Oshkosh 2016.

Free aviation and obstacle data for the Navigation Mapping Software is available from Dynon Avionics for US customers only. Customers worldwide can purchase aviation and obstacle data from Jeppesen and PocketFMS. As SkyView SE does not have any mapping capability, the SV-MAP-270 Navigation Mapping Software is not applicable to those systems.

Synthetic Vision Software

SkyView displays can be purchased with or without a license pre-installed that allows Synthetic Vision to be shown. The vast majority of SkyView systems sold include Synthetic Vision. If you purchase a SkyView display that does not include the Synthetic Vision Software license, it can be added at any time through the purchase of a SV-SYNVIS-280 SkyView Synthetic Vision Software Certificate ($100). The SV-D1000/B and SV-D700/B bundles both include Synthetic Vision. As SkyView SE does not have synthetic vision capability, this feature does not apply to those systems.

VP-X Software License

Enables interoperability between SkyView and the VP-X system made by Vertical Power, Inc. The VP-X is an electronic circuit breaker system that uses the SkyView display for annunciation. Only one SV-VPX-290 purchase is required per airplane, no matter how many SkyView displays it contains. This license is only usable if a VP-X is installed in the system. Dynon does not sell the VP-X; it is available from Vertical Power and dealers. VP-X capability is not available on SkyView SE systems.

Dynon SV-INTERCOM-2S Two-Place Stereo Intercom

Dynon's new two-place stereo intercom solves the problem of having to choose between an under-featured intercom and an expensive audio panel. The SV-INTERCOM-2S has everything pilots need to connect EFIS systems, stereo music, and other audio devices in their modern instrument panels by providing ample inputs. These include: dual muting inputs (one stereo for music), four non-muting inputs (one stereo for capable EFIS systems such as SkyView; the rest mono for radios and other avionics), dual stereo headset connections, and dual radio outputs. The SV-INTERCOM-2S includes Horizontal and Vertical faceplates as well as headset jacks. It is not TSO'd.

D3 Pocket Panel Portable EFIS

The D3 Pocket Panel is a portable, battery powered attitude indicator that does not require installation. Unlike Dynon's panel-mounted products for experimental air light sport aircraft, pilots can use the D3 in ANY airplane.

The D3 is the newest edition of Dynon's popular Pocket Panel. It now features Synthetic Vision, an intuitive touchscreen interface, and improved brightness for superior sunlight readability.

The D3 utilizes the same Dynon MEMS-based AHRS technology that has made Dynon the leading supplier of EFIS (Electronic Flight Information Systems) in experimental and Light Sport Aircraft. The D3 offers a true artificial horizon with accurate pitch and roll, can find the horizon even if turned on in flight, and maintain the horizon during extended duration turns. The AHRS sensors also drive a turn rate indicator and slip/skid ball. Included is an internal GPS receiver to display GPS ground speed, altitude, vertical speed, and ground track. The D3 offers a second page with a graphical round dial with the current load factor shown by a needle. Plus, it records the minimum and maximum G's since being last reset by the pilot.

D10/D100/FlightDEK Series

Overview

The D10 and D100 Series are comprised of seven integrated avionics products. The EFIS-D6 and EFIS-D10A each contain a full set of primary flight instruments in compact, 4" displays designed for installation or easy retrofit into a standard 3-1/8" instrument hole. The EFIS-D60 and EFIS-D100 are essentially the same as the smaller products - with the same set of features and functions, but with larger 7" displays. Similarly, the EMS-D10 is a complete and versatile engine monitoring system with a 4" display. The EMS-D120 is the 7" display version of the EMS-D10. Finally, the FlightDEK-D180 is a combined EFIS and an EMS in one 7" display package.

Super-Bright Screen

The EFIS-D60, EFIS-D100, EMS-D120, and FlightDEK-D180 all now come standard with super-bright screens.

Equipping your Panel

Single Screen Solutions

If you are ordering a single EFIS or EMS, choosing the right size for your panel is probably your primary consideration. The price difference between the EFIS-D6 and EFIS-D60 is just $300, between the EFIS-D10A and EFIS-D100 is just $200, and the difference between the EMS-D10 and EMS-D120 is just $300. For the tightest panels, the FlightDEK-D180 is both an EFIS and EMS in one 7" screen.

EFIS and EMS solutions

For customers with the panel space, the EFIS-D60, EFIS-D100 and EMS-D120 offer impressive 7" displays. For tighter panels, the 4" EFIS-D6, EFIS-D10A and EMS-D10 each will fit in a standard 3-1/8" instrument hole. Also, you can pair our EFIS-D10A and EFIS-D100 with either of our EMSs. If your panel has unique geometry, mix and match an EFIS-D100 with an EMS-D10, or an EFIS-D10A with an EMS-D120. With the Dynon Smart Avionics Bus (DSAB), you'll be able to display EFIS information on your EMS and EMS information on your EFIS, no matter which sizes you choose. (Note: the EFIS-D6 and the EFIS-D60 cannot connect to other instruments.)

Ultimate Redundancy

For customers seeking full primary flight instrument redundancy with engine monitoring capability, you can pair a FlightDEK-D180 with either an EFIS-D100 or EFIS-D10A. Since both the FlightDEK-D180 and second EFIS have their own self contained set of EFIS primary flight instruments, your partial panel emergency scenario is hardly a "partial" at all. And, because DSAB allows the seamless transfer of information across units, the FlightDEK-D180's EMS features can be displayed on either screen (as long as the FlightDEK-D180 is operational).

Options for D10/D100 EFIS and FlightDEK-D180 Systems

HS34 HSI Expansion Module

The HS34 expands Dynon's already popular line of affordable EFIS and EMS instruments. While all of Dynon's D10/D100 Series EFIS instruments include HSI functionality, each instrument offers only a single serial connection for interfacing with GPS and NAV radios. Thus compatibility with those radios is limited.

The HS34 overcomes these constraints by adding ARINC-429, analog, and serial interfaces to cover many popular radios. The addition of an HS34 to an EFIS allows full compatibility with radios such as the Garmin GNS430/530. This includes advanced features IFR pilots demand, such as CDI auto-scaling and full GPSS roll steering and vertical guidance information from WAAS-enabled units. The HS34 eliminates the need to install a conventional CDI/GS head.

The panel-mounted HS34 provides a superior user interface to the HSI as well. By including dedicated knobs and buttons for the barometer, course (OBS), heading and altitude bugs, navigation source, and bearing source, users can quickly access the primary HSI functions without pushing any buttons on the EFIS. Additional functions of the HS34 include auto-dimming of all Dynon equipment, audio output for voice annunciation of various system warnings and alarms, and additional EMS general purpose and contact inputs.

The HS34 is priced at $650 and can be purchased in either vertical or horizontal configurations. It also requires at least one EFIS or FlightDEK-D180 system to connect to. (Note: the EFIS-D6 and the EFIS-D60 cannot connect to the HS34.)

Primary Wiring Harness

Because problems in wiring can be some of the most difficult for the homebuilder to troubleshoot, a majority of our customers choose to order our primary EFIS harness. The harness includes wires for power, ground, EDC-D10A remote compass, PC serial connection (for updating your Dynon product), AOA audio output, DSAB, and more.

This option is highly recommended for the EFIS-D6, EFIS-D10A, EFIS-D60, EFIS-D100, and FlightDEK-D180.

Internal Li-Ion Backup Battery

Installed inside the EFIS or FlightDEK-D180 either at the factory or by you (if ordered after initial instrument purchase), this rechargeable battery provides at least 2 hours (EFIS-D6, EFIS-D10A) or 1.5 hours (EFIS-D60, EFIS-D100 or FlightDEK-D180) of battery backup in the event of aircraft electrical failure. Similar to the batteries in a cell phone or mp3 player, the battery's charge is automatically managed by the EFIS or FlightDEK-D180. This option is not available for the EMS-D10 or EMS-D120.

EDC-D10A Remote Compass

Though the EFIS-D6 and EFIS-D10A do have a set of internal magnetic sensors, the panel environment is often affected by significant magnetic interference. In many panels it is not possible to calibrate the built-in magnetic compass due to such interference. The EDC-D10A remote compass provides for a compass mounting location free of the most common sources of magnetic interference. It is commonly mounted in a location such as a wing/wingtip or tail of the aircraft. The EDC-D10A is included with the EDC-D6, and is an optional component when ordering the EFIS-D10A.

The EFIS-D60, EFIS-D100 and FlightDEK-D180 do not have internal magnetic sensors. The EDC-D10A comes with each of these systems.

As the EDC-D10A is the signal processor for the EFIS OAT probe (p/n 100433-000), it is a prerequisite for hooking up an OAT to an EFIS-D10A, EFIS-D100 or the FlightDEK-D180. OAT is not available with the EFIS-D6 and EFIS-D60.

OAT Probe for EFIS (p/n 100433-001) *

The OAT probe provides real-time outside air temperature and facilitates calculations of density altitude and true airspeed. Additionally, it enables the calculation of winds aloft when an external GPS input is connected to your EFIS or FlightDEK-D180. The probe includes 10' of wire. Because it connects only to the EDC-D10, the remote compass is a requirement when using the OAT. The EFIS-D6 and EFIS-D60 do not support installation of the OAT probe. *See "*OAT special note" below for additional information on selecting the right OAT*.

Encoder Serial-to-Gray Code Converter Module

Dynon's EFISes, FlightDEK-D180 and SkyView can be your transponder's altitude encoder. They output serial data, however, which is not supported by many older transponders. If your transponder can accept serial altitude data (common examples of such transponders include the Garmin GTX 327 and GTX 330), your EFIS/FlightDEK-D180/SkyView can send altitude to it directly. If your transponder requires "gray code" input, you will need to purchase the Encoder Serial-to-Gray Code Converter Module in order to use the EFIS/FlightDEK-D180/SkyView as your altitude encoder.

Pitot Probes for D10/D100/FlightDEK Series and SkyView

Angle of Attack/Pitot Probe

When equipped with our AOA/Pitot Probe, your EFIS or SkyView PFD can indicate AOA both visually and audibly (when connected to your intercom or audio panel). The AOA/Pitot has two ports that are used to sense airspeed and angle of attack. It is available in two styles. The normal, "L shaped" under-wing style (part number 100141-000) is used by the vast majority of customers that order the AOA/Pitot Probe. For unique aircraft that require a straight tube "boom" style pitot, order part number 100532-000.

Dynon Avionics does not manufacture or sell pitot tube brackets. Any bracket made for AN5812 style pitot tubes will work. Our installation guides, which can be downloaded off our website at www.dynonavionics.com, list particular brackets that are compatible.

The AOA/Pitot probe does not have a built-in static port, nor can it be modified to install one.

Heated Angle of Attack/Pitot Probe

The heated pitot is mechanically the same as the regular pitot above. The heated pitot includes a ni-chrome heating element that is regulated by a separate pitot heater controller unit supplied with the pitot. The controller actively monitors a temperature sensor embedded within the pitot head and regulates the power to maintain a constant temperature. This not only conserves energy but additionally prolongs the life of the heater. The controller also outputs a signal that can be wired to a warning light in the cockpit to warn the pilot anytime there is a malfunction or that the pitot is turned off.

Engine Monitoring Kits and Sensor Descriptions

The EMS-D10, EMS-D120, and SkyView System require an appropriate set of engine sensors to perform monitoring functions. The following sensors and packages work with all of our systems.

EMS Engine Probe Packages

Dynon Avionics has configured probe/harness packages for the most popular engines on the market. Each package includes a set of sensors and harnesses that covers the most commonly monitored parameters, including CHTs, EGTs, oil temp, oil pressure, fuel pressure, amps, and more, depending on the engine. High-quality solid-state Kavlico sensors are used for oil, coolant, and fuel pressures. See Table 1 on the order form for precise engine package contents.

EMS Engine Packages come with both harnesses needed to connect the included probes to the EMS-D10, EMS-D120 and SkyView SV-EMS-220.

The EMSKIT-RTXiS for the fuel injected Rotax 912 iS is an exception, as it requires the SV-EMS-221 and only works with the SkyView system.

Fuel Flow Transducer

When equipped with the optional Fuel Flow Transducer, your EMS/FlightDEK-D180/SkyView becomes a full fuel computer or totalizer, able to calculate such items as time remaining, gallons remaining, and other useful fuel flow derived information. Because it is a relatively expensive sensor, it is not included with any engine probe package and is sold separately as an option.

Capacitance to Voltage Converter

These converters allow builders of Vans RV and other aircraft with capacitive plates in their fuel tanks to measure fuel quantity with Dynon's EMS products. One converter is required per tank; a maximum of two are supported. Each is equipped with a BNC connector, making connection to the Vans plates a snap.

EMS OAT Probe (p/n 100433-000) *

For engine probe packages that do not include the EMS OAT, it can be added as an individual probe. Includes 10' of wire.

See "*OAT special note" below for additional information on selecting the right OAT.

Items not supplied

Dynon Avionics does not supply fuel quantity senders. However, our SkyView, EMSes and FlightDEK-D180 are compatible with any resistive "float" style fuel level sender, or capacitance probes that output a variable voltage between 0-5V DC.

Additionally, tachometer transducers are not supplied, but for most engines one is not required. See our installation guides, available at www.dynonavionics.com, for details.

Ordering Parts as Needed

As you build your aircraft, feel free to order any options, accessories, or other items you need before you are ready for your actual instrument. Common items that customers order ahead of time include the Servos, AOA/Pitot, EDC-D10A, and D100 series mounting tray.

Note that the EFIS-D6, EFIS-D60, EFIS-D100, EMS-D120, and FlightDEK-D180 are normally sold as a "system" which includes all of the basic required components. You can elect to order some of the items included in the full "system" ahead of time, and you will not pay extra. Note that the EDC-D10A is required for heading on the EFIS-D100 and FlightDEK-D180.

*OAT special note - selecting the right OAT for your configuration

For the SkyView system, the OAT probe is bundled with the ADAHRS module and thus does not need to be ordered separately.

For the D10/D100 Series, there are two OAT probes available from Dynon Avionics.

If you are purchasing a single EFIS-D100 or EFIS-D10A, purchase part number 100433-001 which connects through the EDC-D10A remote magnetometer (optional equipment when purchasing an EFIS-D10A).

If you are purchasing a single EMS-D120 or EMS-D10, use the OAT for the EMS - part number 100433-000.

If purchasing an EFIS AND an EMS, or a FlightDEK-D180, you can use either of the above OAT probes. There are a few things to consider when choosing which one to use. The EMS OAT (100433-000) uses one of three available EMS general purpose inputs. Other things that these inputs can be used for are carb air temperature, coolant pressure, coolant temp, elevator/aileron/rudder trim, flaps position, Rotax CHTs (2), and more. If you would prefer to free up all 3 of these inputs for some of these other sensors, and are configuring your aircraft with an EFIS and EMS or FlightDEK-D180, you can choose to use the EFIS OAT (100433-001), which connects to the EDC-D10A remote compass.

Autopilot

A Dynon Avionics Autopilot is simply a Dynon Avionics SkyView, EFIS-D10A, EFIS-D100, or FlightDEK-D180 connected to one or two servos to drive the control surfaces. (The EFIS-D6 and EFIS-D60 do not have autopilot capability.) All autopilot servos are compatible with both the D10/D100 Series and the SkyView System EFIS displays.

Affordability and Redundancy

Adding a pair of servos to a single EFIS for as little as $1500 provides the most economical two-axis autopilot available.

For those that want redundancy beyond what a single EFIS driving servos offers, consider that the combination of two D10/D100 Series EFIS instruments plus two servos is typically less expensive than a single EFIS (or other flight instruments) and a separate autopilot from competitors. This combination also offers two fully redundant sets of flight instruments.

Note, however, that in a D10/D100/FlightDEK Series dual-EFIS system, only a single EFIS may be configured to control the servos. In the event of an in-flight failure of the primary EFIS, the autopilot will be disabled. The secondary EFIS may be reconfigured to control the servos, but that configuration can only be completed on the ground as it requires re-calibration of the servos.

In a SkyView system with multiple displays, any functioning display will provide Autopilot control of the servos.

Servos

Dynon Servos are available in a few different sizes and configurations. Maximum torque output for each model is as follows:

>SV32: 36 in-lb
>SV42: 55 in-lb
>SV52: 72 in-lb

The maximum available force will vary by the length of the arm used or diameter of the capstan employed. Standard arm servos and long arm servos (denoted by an "L" suffix) differ only in the length of their output arms. "L" servos allow for slightly more travel in aircraft that require it, but yield a smaller force available at the longer arm attach points. Due to the decrease in available force, long arm servo models should generally only be used in aircraft that require them.

Capstan servos are also available for use in aircraft that utilize cable-driven control surfaces. Capstan servos come with the bridle cable and clamp necessary to be used in aircraft with 1/8" cables. Capstan servo models are denoted with a "C" suffix.

For more detailed data about specific servo models, please see the complete set of servo documentation, which is available at http://www.dynonavionics.com/docs.

For servo configurations for various aircraft that are not directly reflected in the Dynon price list, please see http://wiki.dynonavionics.com/Servo_Application_Guide.

AP74 Dedicated Autopilot Interface Module

The AP74 Dedicated Autopilot Interface Module is designed for use with the EFIS-D10A, EFIS-D100 and FlightDEK-D180. It is not compatible with SkyView. It adds panel-mounted controls and LED status lights to your autopilot, along with the ability to pre-arm autopilot modes and pre-select

heading/track/ altitude targets if desired. Though not required, most customers that are building a new panel will likely want to include an AP74. It is available in both vertical and horizontal form factors, and comes with a mounting tray and connector kit.

Note, the AP74 is not compatible with SkyView systems. Its functionality is encompassed instead in SkyView's enhanced interface, providing two value control knobs and additional menu buttons to provide direct access to all Autopilot modes.

Mounting Kits

Mounting kits for common aircraft configurations will be developed for popular aircraft types on an ongoing basis and will be added to price list below as they become available. These will typically include any brackets/trays, rod ends, and connection hardware required to install each servo into a specific location on a specific aircraft.

Note that there is a mounting kit that is available for the RV-4 pitch axis, since it is the same as the RV-8's. However, there is no roll mounting kit available for the RV-4 and no current plans to produce one.

For aircraft that do not have specific Dynon-provided mounting kits, a generic servo mounting kit is available with rod ends and other servo connection hardware. This generic kit does not include any brackets or trays, however. For full kit contents, see its documentation at http://www.dynonavionics.com/docs. Servo mounting locations, bracket/tray fabrication, and servo selections are left to the builder to ultimately determine, though Dynon maintains an informational database and guidelines for choosing servos at http://wiki.dynonavionics.com/Servo_Application_Guide.

Price List

SkyView Products and Prices

SkyView Displays

Description	Price	Part No.
10" SkyView HDX Display, bundle (Includes SV-HDX1100/A 10" SkyView HDX Display, SV-HARNESS-D37, SV-SYNVIS-280 Synthetic Vision, SV-MAP-270 Navigation Mapping)	$4580	SV-HDX1100/B
10" SkyView Touch Display, bundle (Includes SV-D1000T/A 10" SkyView Touch Display, SV-HARNESS-D37, and SV-SYNVIS-280 Synthetic Vision)	$3995	SV-D1000T/B
10" SkyView Display, bundle (Includes SV-D1000/A 10" Display, SV-HARNESS-D37, and SV-SYNVIS-280 Synthetic Vision)	$3600	SV-D1000/B
10" SkyView SE Display, bundle SE (Includes SV-D900/A 10" Display, SV-HARNESS-D37)	$3100	SV-D900/B
7" SkyView HDX Display, bundle (Includes SV-HDX800/A 7" Display, SV-HARNESS-D37, SV-SYNVIS-280 Synthetic Vision, SV-MAP-270 Navigation Mapping)	$3280	SV-HDX800/B
7" SkyView Display, bundle (Includes SV-D700/A 7" SkyView HDX Display, SV-HARNESS-D37, and SV-SYNVIS-280 Synthetic Vision)	$2700	SV-D700/B
7" SkyView SE Display, bundle SE (Includes SV-D600/A 7" Display, SV-HARNESS-D37)	$1850	SV-D600/B
10" SkyView HDX Display only, (no harness) (Includes SV-SYNVIS-280 Synthetic Vision, SV-MAP-270 Navigation Mapping)	$4490	SV-HDX1100/A
10" SkyView Touch Display only, (no harness) (Includes SV-SYNVIS-280 Synthetic Vision)	$3905	SV-D1000T/A
10" SkyView Display only (no harness) (Includes SV-SYNVIS-280 Synthetic Vision)	$3510	SV-D1000/A
10" SkyView SE Display only, (no harness) SE	$3010	SV-D900/A
7" SkyView HDX Display only (no harness) (Includes SV-SYNVIS-280 Synthetic Vision, SV-MAP-270 Navigation Mapping)	$3190	SV-HDX800/A
7" SkyView Display only (no harness) (Includes SV-SYNVIS-280 Synthetic Vision)	$2610	SV-D700/A
7" SkyView SE Display only (no harness) SE	$1760	SV-D600/A
10" SkyView Touch Display only (no harness or Synthetic Vision)	$3805	SV-D1000T/NSV
10" SkyView Display only (no harness or Synthetic Vision)	$3410	SV-D1000/NSV
7" SkyView Display only (no harness or Synthetic Vision)	$2510	SV-D700/NSV

SkyView Control Panels

Description	Price	Part No.
SkyView Autopilot Control Panel (Vertical) SE (trim control&AP autotrim only w/ SE)	$550	SV-AP-PANEL/V
SkyView Autopilot Control Panel (Horizontal) SE (trim control&AP autotrim only w/ SE)	$550	SV-AP-PANEL/H
SkyView Knob Control Panel (Vertical) SE	$250	SV-KNOB-PANEL/V
SkyView Knob Control Panel (Horizontal) SE	$250	SV-KNOB-PANEL/H

SkyView System Components

Description	Price	Part No.
First Air Data, Attitude, Heading Reference ADAHRS Module SE (Includes SV-ADAHRS-200 and SV-OAT-340)	$1200	SV-ADAHRS-200/A

	Additional ADAHRS Module (Includes SV-ADAHRS-201 and SV-OAT-340)	$800	SV-ADAHRS-201/A
	Remote Magnetometer for SkyView (List price: $180*) **SE** *Introductory price: $140	$140	SV-MAG-236
	Engine Monitoring Module **SE** **Note: For engine probe kits and individual engine probes, refer to the EMS section.**	$600	SV-EMS-220/A
	Engine Monitoring Module for Rotax 912 iS **SE** **Note: For engine probe kits and individual engine probes, refer to the EMS section.**	$1,050	SV-EMS-221/A
	SV-GPS-250 GPS Antenna/Receiver Module **SE**	$200	SV-GPS-250/A
	SV-GPS-2020 GPS Antenna/Receiver Module **SE** (meets FAA 2020 ADS-B Out requirements)	$590	SV-GPS-2020
	ARINC-429 Interface Module	$475	SV-ARINC-429
	Mode-S Class 1 Transponder (FAA 2020 ADS-B Out compliant in the US) **SE** **Note: Recommended for all US aircraft.** **Note: Antenna not included, see SkyView Installation Manual for recommendations.**	$2,200	SV-XPNDR-261
	Mode-S Class 2 Transponder (<15,000 feet, <175 Knots only) **SE** **Note: Antenna not included, see SkyView Installation Manual for recommendations.**	$1,800	SV-XPNDR-262
	System Backup Battery **SE**	$180	SV-BAT-320
	Display Harness with Aircraft Grade Tefzel® Wiring **Note: Included with Display Bundles, but available for order separately for pre-build installation.**	$90	SV-HARNESS-D37
	Navigation Mapping Software Certificate *(Included with SkyView starting Aug 2016)*	$200	SV-MAP-270
	Synthetic Vision Software Certificate *(Included with displays unless specified)*	$100	SV-SYNVIS-280
	Vertical Power VP-X Software Certificate (Requires a VP-X box available from Vertical Power.)	$275	SV-VPX-290
	ADS-B Dual Band Traffic and Weather Receiver	$795	SV-ADSB-472
	SkyView VHF Com Radio (25 kHz, Vertical) **SE** **Note: Antenna not included, see SkyView Installation Manual for recommendations.**	$1,295	SV-COM-C25/V
	SkyView VHF Com Radio (25 kHz, Horizontal) **SE** **Note: Antenna not included, see SkyView Installation Manual for recommendations.**	$1,295	SV-COM-C25/H
	SkyView VHF Com Radio (8.33 kHz, Vertical) **SE** **Note: Antenna not included, see SkyView Installation Manual for recommendations.**	$2,195	SV-COM-X83/V
	SkyView VHF Com Radio (8.33 kHz, Horizontal) **SE** **Note: Antenna not included, see SkyView Installation Manual for recommendations.**	$2,195	SV-COM-X83/H
	Video Input Adapter for SkyView (USB) **Note: Requires SkyView SV-D1000/SV-D1000T s/n 6000+ or SV-D700 s/n 4000+**	$195	102211-000
	Wi-Fi Adapter for SkyView (USB)	$35	102405-000

Builder Support Accessories

	SV-BUTTON-LEVEL Autopilot LEVEL Button	$39	SV-BUTTON-LEVEL
	SkyView Panel-mount screws - Qty 30	$3.50	102487-000
	Pitot/Static/AOA Pneumatic Installation Kit	$115	102628-000
	Panel Module Faceplate Blank	$24	102542-000
	Dual ADAHRS Mounting Kit	$24	102532-000
	SkyView Network Bypass Adapter (Male 9-pin to Male 9-pin)	$15	101267-000
	Transponder Antenna – Rod Type (1090 MHz)	$29	102608-000
	ADS-B (UAT) Receiver Antenna – Rod Type (978 MHz)	$29	102607-000
	Pitot Mount Bracket for Vans RV 7,8,9,10	$95	102813-000

Dynon Intercom

Note: The SV-INTERCOM-2S is compatible with both the SkyView and the D10/D100 Series systems.

2-Place Stereo Intercom SE (Includes Horizontal and Vertical faceplates and headset jack kits)	$295	SV-INTERCOM-2S
Stereo Headset Panel Jacks - Pilot & Copilot Jack set **(this kit is included in the SV-INTERCOM-2S)**	$15.50	101854-000

SkyView System Cables, Harnesses, and Connectors

Network Hub - SkyView Network Hub with 5 Ports	$50	SV-NET-HUB
Network Cable – Both ends with connectors, 1.5' long Aircraft Grade Tefzel® Wiring	$40	SV-NET-1.5CC
Network Cable – Both ends with connectors, 3' long Aircraft Grade Tefzel® Wiring	$40	SV-NET-3CC
Network Cable – Both ends with connectors, 6' long Aircraft Grade Tefzel® Wiring,	$45	SV-NET-6CC
Network Cable – 1end with connector, 1 end with pins only, 10' long Aircraft Grade Tefzel® Wiring	$50	SV-NET-10CP
Network Cable – 1end with connector, 1 end with pins only, 15' long Aircraft Grade Tefzel® Wiring	$55	SV-NET-15CP
Network Cable – 1end with connector, 1 end with pins only, 20' long Aircraft Grade Tefzel® Wiring	$60	SV-NET-20CP
Network Cable – 1end with connector, 1 end with pins only, 25' long Aircraft Grade Tefzel® Wiring	$65	SV-NET-25CP
Network Cable – 1end with connector, 1 end with pins only, 30' long Aircraft Grade Tefzel® Wiring	$70	SV-NET-30CP
Network Splitter Aircraft Grade Tefzel® Wiring, 1' long	$65	SV-NET-SPL
Network Autopilot Servo Cable Kit– Includes 20' of Aircraft Grade Tefzel® Wiring for networks, quick disconnect, power, and ground.	$55	SV-NET-SERVO
Ethernet Cable - Low Smoke Zero Halogen, Aircraft Grade, 3' long	$25	SV-ETHERNET-3CC
SV-HARNESS-XPNDR Harness for SV-XPNDR-261/262 Transponder	$55	SV-HARNESS-XPNDR
SV-HARNESS-ADSB Harness for SV-ADSB-470/472 ADS-B Receiver	$55	SV-HARNESS-ADSB
Connector Kit: Male, D-sub 9-pin	$8	100830-000
Connector Kit: Male, D-sub 25-pin	$15	100830-002
Connector Kit: Female, D-sub 9-pin	$8	100831-000
Connector Kit: Female, D-sub 15-pin	$11	100831-000
Connector Kit: Female, D-sub 25-pin	$15	100831-002

For SkyView pitot and autopilot components (servos, mounting kits and trays) refer to the Pitot and Autopilot Components sections. Note that the AP74 optional autopilot control panel is not required and is not compatible with the SkyView system.

Pocket Panel Products and Prices

Note: D3 units include all of the items listed under the Accessories / Replacement Components heading below

D3 Pocket Panel Portable EFIS (List Price: $995)	$995	103306-000

Pocket Panel Accessories / Replacement Components

	External GPS Receiver for D1/D2/D3	$60	101389-000
	RAM Suction Cup Mount + Cradle for D1/D2/D3	$75	101902-000
	Panel "Pinch" Mount bracket for D1, D2, and D3	$40	101761-000
	Vehicle Power Adapter for D1 and D2 - 12/24V Aircraft	$30	101388-000
	AC Wall Power Adapter for D1 and D2 (100-240V AC)	$40	101387-000

DRX Portable Dual Band ADS-B Traffic and Weather Receiver

	DRX Dual Band Portable ADS-B Traffic and Weather Receiver (List Price: $395)	$395	103171-000

Products Eligible for EAA STC

All Products eligible for EAA STC

	Required		
	EFIS-D10A System, Retail (Includes EFIS-D10A, 100321-000; Mounting Accessories, 100351-000; Short 7/64 Hex Wrench,100556-000)	$2200	100538-000
	EFIS-D100 with Super-Bright Screen, **Instrument only**, Retail (Includes Instrument,100488-001; 7/64 Hex Wrench, 100556-000)	$2740	100534-001
	GPS-251 GPS Antenna/Receiver Module for EFIS D10/D100 Series	$295	102827-000
	Internal Li-Ion Backup Battery	$130	100096-000
	Optional		
	Simplified Primary Wiring Harness for EFIS D10/D100 Series (GPS-251 wiring, no DSAB, no 2nd RS-232)	$195	102832-000
	EDC-D10A Remote Compass	$100	100323-000
	OAT Probe, connects through EDC-D10A or directly to EMS/FlightDEK, 10' wire	$65	100433-001
	AOA/Pitot Probe, unheated	$200	100141-000
	D100 Series Mounting Tray	$30	100422-000
	D10 Series Flush Mount Bracket	$20	100024-000

D10/D100 Kits for EAA STC

The following kits are bundles of Dynon products that are eligible for installation under EAA's STC. They include only the products and accessories as required by the STC. Other accessories may also be acceptable to install per the STC.

	Dynon EFIS-D10A EAA Sales Kit - Minimum Required (Includes EFIS-D10A, 100321-000; Mounting Accessories, 100351-000; Short 7/64 Hex Wrench,100556-000, GPS-251,102827-000; Backup Battery, 100096-000)	$2625	102830-001
	Dynon EFIS-D100 EAA Sales Kit - Minimum Required (Includes EFIS-D100 w/ Super-Bright Screen, 100488-001; Mounting Tray, 100422-000; Short 7/64 Hex Wrench,100556-000; GPS-251,102827-000; Battery, 100096-000)	$3195	102830-002

EFIS-D6, EFIS-D10A, EFIS-D100, and FlightDEK-D180 Products and Prices

Note: EFIS-D100 "Systems" include all of the items listed under the System Components heading below

	EFIS-D6 System, Retail (Includes EFIS-D6, 101222-000; EDC-D10A, 100323-000)	$1600	101223-000
	EFIS-D10A System, Retail (Includes EFIS-D10A, 100321-000; Mounting Accessories, 100351-000; 7/64 Hex Wrench,100556-000)	$2200	100538-000

EFIS-D60 System with Super-Bright, Retail (Includes EFIS-D60, 101224-000; EDC-D10A, 100323-000; Mounting Tray, 100422-000)	$1900	101225-000
EFIS-D100 System with Super-Bright Screen, Retail (Includes EFIS-D100 w/ Super-Bright Screen, 100534-001; EDC-D10A, 100323-000; Mounting Tray, 100422-000; USB-Serial converter, 100512-000)	$2890	100533-001

EFIS System Components

(If you want parts early in your build, the following individual components are available. All items listed below are included in system pricing above, and all are required for proper operation)

EFIS-D100 with Super-Bright Screen, **Instrument only**, Retail (Includes Instrument,100488-001; 7/64 Hex Wrench, 100556-000)	$2740	100534-001
D100 Series Mounting Tray (included with all D100 series systems)	$30	100422-000
EDC-D10A Remote Compass *(included with EFIS-D6, EFIS-D60, EFIS-D100 and FlightDEK-D180 systems)*	$100	100323-000
USB to Serial Converter (included with EFIS-D100 and FlightDEK-D180 systems)	$20	100512-000
For Pitot Probes, see the Pitot Probe section.		

Upgrades (please call 425-402-0433 for return authorization from Dynon Avionics)

EFIS-D6 to EFIS-D10A Upgrade	$800	100322-003
EFIS-D60 to EFIS-D100 Upgrade	$1090	100322-004

FlightDEK-D180 Products and Prices

Note: FlightDEK-D180 "Systems" include all of the items listed under the System Components heading below

FlightDEK-D180 System w/ Super-Bright Screen, Retail (Includes FlightDEK-D180 w/ Super-Bright Screen, 100567-001; EDC-D10A, 100323-000; Mounting Tray, 100422-000; USB-Serial converter, 100512-000)	$3400	100565-001

FlightDEK-D180 System Components

(For builder head start customers; all components below are included in system pricing above; all system components are required for proper operation)

FlightDEK-D180 with Super-Bright Screen, **Instrument only**, Retail (Includes Instrument, 100564-001; 7/64 Hex Wrench, 100556-000; Accessories Pack, 100446-000)	$3250	100567-001
D100 Series Mounting Tray (included with all D100 series systems)	$30	100422-000
EDC-D10A Remote Compass (included with EFIS-D100/FlightDEK-D180 systems)	$100	100323-000
USB to Serial Converter (included with EFIS-D100 and FlightDEK-D180 systems)	$20	100512-000
For Pitot Probes, see the Pitot Probe section.		

EFIS-D6, EFIS-D60, EFIS-100, FlightDEK-D180 Options/Accessories

Simplified Primary Wiring Harness for EFIS D10/D100 Series (GPS-251 wiring, no DSAB, no 2nd RS-232)	$195	102832-000
GPS-251 GPS Antenna/Receiver Module for EFIS D10/D100 Series	$295	102827-000
Primary Wiring Harness for EFIS/FlightDEK	$90	100425-000
Internal Li-Ion Backup Battery	$130	100096-000
EDC-D10A Remote Compass *(included with EFIS-D6, EFIS-D60, EFIS-D100, and FlightDEK-D180 systems)*	$100	100323-000

	OAT Probe, connects only directly to EMS/FlightDEK, 10' wire	$37	100433-000
	OAT Probe, connects through EDC-D10A or directly to EMS/FlightDEK, 10' wire	$65	100433-001
	Encoder Converter Module, Serial-to-Gray Code	$80	100362-000
	USB to Serial Converter (included with EFIS-D100 and FlightDEK-D180 systems)	$20	100512-000
	HS34 HSI Expansion Module – Vertical, Retail (Includes HS34 Vertical, 100755-000; HS34 Mounting Bracket, 00758-000; HS34 Connector Kits, 100830-002,100831-000,100831-002; 7/64 Hex Wrench: 100556-000)	$650	100790-000
	HS34 HSI Expansion Module – Horizontal, Retail (Includes HS34 Horizontal, 100755-001; HS34 Mounting Bracket, 00758-000; HS34 Connector Kits, 100830-002,100831-000,100831-002, 7/64 Hex Wrench: 100556-000)	$650	100790-001
	D10 Series Flush Mount Bracket	$20	100024-000
	For Pitot Probes, see the Pitot Probe section.		
	For Engine Sensors, Sensor Kits, and other engine accessories see the Engine Sensor section.		

EMS-D10, EMS-D120 Engine Monitors

Note: EMS-D120 "Systems" include all of the items listed under the System Components heading below

	EMS-D10, Retail (Includes EMS-D10, 100417-000; Accessories Pack,100446-000; Mounting Accessories, 100351-000)	$1700	100537-000
	EMS-D120 System with Super-Bright Screen, Retail (Includes EMS-D120 w/Super-Bright Screen, 100584-001; Mounting Tray, 100422-000)	$2200	100566-001

EMS-D120 System Components

(If you want parts early in your build, the following individual components are available. All items listed below are included in system pricing above, and all are required for proper operation)

	EMS-D120 with Super-Bright Screen, Instrument only, Retail (Includes Instrument, 100563-001; 7/64 Hex Wrench, 100556-000; Accessories Pack, 100446-000)	$2170	100584-001
	D100 Series Mounting Tray *(included with all D100 series systems)*	$30	100422-000

Engine Probe Packages, Sensors and Accessories

Note: all of the following EMS options, engine packages and individual sensors are compatible with both the SkyView and the D10/D120/D180 Series systems.

EMS Options

	Fuel Flow Transducer, ¼" Female NPT, EI FT-60, .6-70+ GPH	$200	100403-003
	USB to Serial Converter *(included with EFIS-D100 and FlightDEK-D180 systems)*	$20	100512-000
	Capacitance to Voltage Converter for Vans Capacitive Plates	$50	100654-000
	OAT Probe, connects only directly to EMS/FlightDEK, 10' wire	$37	100433-000
	D10 Series Flush Mount Bracket – for EFIS-D10A and EMS-D10	$20	100024-000

EMS Engine Packages – for use with SkyView, SkyView SE , EMS-D10, EMS-D100 and FlightDEK-D180

(includes sensors & harnesses as described in Table 1.)

	EMSKIT-L4C (Kavlico) Lycoming/Continental/Superior, 4 Cylinder, Carbureted	$700	101711-000

	EMSKIT-L4F (Kavlico) Lycoming/Continental/Superior, 4 Cylinder, Fuel Injected	$680	101711-003
	EMSKIT-L6C (Kavlico) Lycoming/Continental/Superior, 6 Cylinder, Carbureted	$850	101711-001
	EMSKIT-L6F (Kavlico) Lycoming/Continental/Superior, 6 Cylinder, Fuel Injected	$830	101711-004
	EMSKIT-RTX (Kavlico) Rotax 912	$345	101711-002
	EMSKIT-J22 (Kavlico, 12mm CHT) Jabiru 2200	$480	101711-005
	EMSKIT-J33 (Kavlico, 12mm CHT) Jabiru 3300	$600	101711-006
	EMSKIT-RTXiS (Kavlico), Rotax 912 iS, requires SkyView w/ SV-EMS-221	$190	101711-007

Individual EMS Sensors

	EGT, Hose Clamp, 0.75-1.25", Rotax	$36	100405-001
	EGT, Hose Clamp, 1.00-1.75", Jabiru	$36	100405-002
	EGT, Hose Clamp, 1.00-2.25", Lycoming/Continental/Superior	$36	100405-000
	CHT, Bayonet 3/8-24 UNF, Lycoming/Continental/Superior	$38	100404-000
	CHT, Ring Terminal, 12mm, Jabiru	$25	100578-000
	MAP, 1/8" hose, 0-60 In Hg	$65	100434-000
	Oil/Coolant Temp, 5/8-18 UNF, Lycoming/Continental/Superior	$20	100409-001
	Oil/Coolant Temp, 1/8-27 NPT, Continental 0-200	$20	100409-000
	Gravity Feed Fuel/Fluid Pressure Sender-Kavlico, 1/8-27 NPT, 5 PSI	$85	101715-000
	Carbureted Fuel/Fluid Pressure Sender-Kavlico, 1/8-27 NPT, 15 PSI	$85	101690-000
	Fuel Injected Fuel/Coolant/Fluid Pressure Sender-Kavlico, 1/8-27 NPT, 50 PSI	$85	101716-000
	Oil/Fluid Pressure Sender-Kavlico, 1/8-27 NPT, 150 PSI	$85	101693-000
	Fuel Flow Transducer, ¼" Female NPT, EI FT-60, .6-70+ GPH	$200	100403-003
	OAT Probe, connects only directly to EMS/FlightDEK, 10' wire	$37	100433-000
	Carburetor Air Temperature, ¼-28 UNF,-50º to 150ºF	$37	100468-000
	Amps Shunt, 0 – 60 Amps	$15	100412-000

Individual EMS Harnesses/Wiring

	EGT Wire Harness, Rotax, 2 Cylinder, 6' long, for EMS/FlightDEK	$50	100399-004
	EGT/CHT Wire Harness, 4 Cylinder, 6' long, for EMS/FlightDEK	$75	100399-001
	EGT/CHT Wire Harness, 6 Cylinder, 6'long, for EMS/FlightDEK	$90	100399-002
	Engine Sensor Main Wire Harness, 6' long, for EMS/FlightDEK	$90	100399-000
	EGT Extension Wire, Type K Thermocouple	$1/Ft	100436-001
	CHT Extension Wire, Type J Thermocouple	$1/Ft	100436-000

Engine Sensors, Harnesses & Packages Table 1		Unit Price $	EMSKIT-L4C	EMSKIT-L4F	EMSKIT-L6C	EMSKIT-L6F	EMSKIT-RTX	EMSKIT-J22	EMSKIT-J33	EMSKIT-RTXiS
Engine Sensors										
100405-001	EGT, 0.75-1.25" Hose Clamp	36					2			
100405-002	EGT, 1.00-1.75" Hose Clamp	36						4	6	
100405-000	EGT, 1.00-2.25" Hose Clamp	36	4	4	6	6				
100404-000	CHT, Adjustable Bayonet, 3/8-24 UNF	38	4	4	6	6				
102556-000	CHT, Ring Terminal, #8 (4.3mm)	25						4	6	
100434-000	Manifold Pressure, 0 – 60" Hg, 1/8" hose	65	1	1	1	1	1			
101693-000	Oil Pressure Kavlico, 1/8-27 NPT, 150 PSI	85	1	1	1	1				
100409-001	Oil Temperature, 5/8-18 UNF, 100-240°F	20	1	1	1	1				
101690-000	Carbureted Fuel Pressure-Kavlico, 1/8-27 NPT, 15 PSI	85	1		1		1	1	1	
101716-000	Injected Fuel Pressure-Kavlico, 1/8-27 NPT, 50 PSI	85		1		1				
101692-000	Injected Fuel Pressure-Kavlico, 1/8-27 NPT, 75 PSI	85								1
100468-000	Carburetor Air Temperature, ¼-28 UNF, -50° to 150°F	37	1		1					
100412-000	Amps Shunt, 0-60 Amps	15	1	1	1	1	1	1	1	1
100403-003	Fuel Flow Transducer, ¼" Female NPT, EI FT-60, .6-70+ GPH	200								
Engine Wiring Harnesses & Extension Wiring										
100399-004	EGT, 2 cylinder, 6' long	50					1			
100399-001	EGT/CHT, 4 cylinder, 6' long harness	75	1	1				1		
100399-002	EGT/CHT, 6 cylinder, 6' long harness	90			1	1			1	
100399-000	Engine Sensor Main Wire Harness, 6' long	90	1	1	1	1	1	1	1	1
100436-001	EGT Extension Wire, Type K Thermocouple	$1/Ft								
100436-000	CHT Extension Wire, Type J Thermocouple	$1/Ft								
	See Notes:		D	C,D			A	B	B	E

Notes:
A. Uses CHTs, Oil Temperature, Oil Pressure, and RPM sensors supplied with engine
B. Uses Oil Pressure and Oil Temperature sensors supplied with engine
C. UL Power engines are compatible with the EMSKIT-L4F package
D. Some Continental O-200 engines are not ported for the bayonet CHT probes sold by Dynon. Spark plug ring terminal CHTs probes can be used alternatively. Note that Dynon does not carry a ring terminal CHT probe sized for the O-200.
E. The Rotax 912 iS engine supplies the following data: Oil Temperature, Oil Pressure, Coolant Temperature, Lane A Bus Voltage, Lane B Bus Voltage, EGT 1-4, Manifold Pressure, Fuel Flow, Engine Time.

Pitot Probes

Note: all of the following Pitot Probes are compatible with SkyView, SkyView SE, and the D10/D100 Series systems.

Mounting brackets for the standard L-shaped Pitot Probe can be obtained through most aviation parts suppliers.

	AOA/Pitot Probe, unheated **SE**	$200	100141-000
	AOA/Pitot Probe, heated, 12V only, with controller **SE**	$450	100667-000
	AOA/Pitot Boom Probe, unheated **SE**	$200	100532-000
	Pitot Mount Bracket for Vans RV 7,8,9,10 **SE**	$95	102813-000

Autopilot Components

The Dynon Avionics Autopilot requires one of the following EFIS display devices:
EFIS-D10A
EFIS-D100
FlightDEK-D180
SkyView SV-D600, SV-D700, SV-D900, SV-D1000, SV-D1000T with SV-ADAHRS-200

Note: all of the following autopilot components except the AP74 Dedicated Autopilot Interface Module are compatible with both the SkyView and the D10/D100 Series systems.
To aid in determining proper servo configurations, please review
http://wiki.dynonavionics.com/Servo_Application_Guide BEFORE ordering.
Airplane Type (REQUIRED): _____

Servo + Mounting Kit Packages SE

	RV-6 Roll Servo + Mounting Kit Package (Includes Servo Mounting Kit - RV-6 Roll (fuselage): 101020-001, SV32L (long output arm), Retail: 100854-001)	$825	101098-001
	RV-7/8 Roll Servo + Mounting Kit Package (Includes Servo Mounting Kit - RV-7/8/10 Roll (right wing): 101020-003, SV32 (standard output arm), Retail: 100854-000)	$825	101098-002
	RV-9 Roll Servo + Mounting Kit Package (Includes Servo Mounting Kit - RV-9 Roll (right wing): 101020-004, SV32 (standard output arm), Retail: 100854-000)	$825	101098-003
	RV-6/7/9 Pitch Servo + Mounting Kit Package (Includes Servo Mounting Kit - RV-6/7/9 Pitch: 101020-005, SV32 (standard output arm), Retail: 100854-000)	$825	101098-004
	RV-4/8 Pitch Servo + Mounting Kit Package [1] (Includes Servo Mounting Kit - RV-4/8 Pitch: 101020-002, SV32 (standard output arm), Retail: 100854-000)	$825	101098-005
	RV-10 Roll Servo + Mounting Kit Package (Includes Servo Mounting Kit - RV-7/8/10 Roll (right wing): 101020-003, SV42 (standard output arm), Retail: 101058-000)	$825	101098-006
	RV-10 Pitch Servo (torque-enhancing linear actuator) + Mounting Kit Package (Includes Servo Mounting Kit - RV-10 Pitch: 101020-007, SV42T (linear actuator), Retail: 101058-003)	$825	101098-008
	Sonex / Waiex Pitch Servo + Mounting Kit Package (Includes Servo Mounting Kit - Sonex / Waiex Pitch: 101863-000, SV32 (standard output arm), Retail: 100854-000)	$825	101098-009
	Sonex / Waiex Roll Servo + Mounting Kit Package (Includes Servo Mounting Kit - Sonex / Waiex Roll: 101864-000, SV42EL (extra long output arm), Retail: 101058-004)	$825	101098-010

[1] This kit fits both the newer and older RV-8 Fuselage Kits.

Servos SE

	SV32 (standard output arm), Retail (Includes SV32: 100754-000, Limiting Bracket Kit: 101025-000)	$750	100854-000
	SV32L (long output arm), Retail (Includes SV32L, 100754-001; Limiting Bracket Kit: 101025-000)	$750	100854-001
	SV32C (capstan), Retail (Incl. SV32C, 100754-002; Capstan Accessory Kit, 101116-000)	$750	100854-002
	SV42 (standard output arm), Retail (Includes SV42, 101008-000; Limiting Bracket Kit, 101025-000)	$750	101058-000
	SV42C (capstan), Retail (Incl. SV42C, 101008-002; Capstan Accessory Kit, 101116-000)	$750	101058-002
	SV52 (standard output arm), Retail (Includes SV52, 101021-000; Limiting Bracket Kit, 101025-000)	$750	101059-000
	SV52C (capstan), Retail (Incl. SV52C, 101021-002; Capstan Accessory Kit, 101116-000)	$750	101059-002

AP74 Dedicated Autopilot Interface Module

Note: for use only with D10/D100 Series EFIS systems

	AP74 Dedicated Autopilot Interface Module – Vertical, Retail (Includes AP74 Vertical, 100756-000; AP74 Mounting Tray, 101049-000; AP74 Connector Kit, 100831-004; 7/64 Hex Wrench, 100556-000)	$450	100852-000
	AP74 Dedicated Autopilot Interface Module – Horizontal, Retail (Includes AP74 Horizontal, 100756-001; AP74 Mounting Tray, 101049-000; AP74 Connector Kit, 100831-004; 7/64 Hex Wrench, 100556-000)	$450	100852-001

Servo Mounting Kits SE

	Servo Mounting Kit - Generic (push-pull)	$25	101020-000
	Servo Mounting Kit - RV-6 Roll (fuselage)	$75	101020-001
	Servo Mounting Kit - RV-7/8/10 Roll (right wing)	$75	101020-003
	Servo Mounting Kit - RV-9 Roll (right wing)	$75	101020-004
	Servo Mounting Kit - RV-4/8 Pitch [1]	$75	101020-002
	Servo Mounting Kit - RV-6/7/9 Pitch	$75	101020-005
	Servo Mounting Kit - RV-10 Pitch (for use w/SV42T)	$75	101020-007
	Servo Mounting Kit - Sonex / Waiex Pitch	$75	101863-000
	Servo Mounting Kit - Sonex / Waiex Roll	$75	101864-000

[1] *This kit fits both the newer and older RV-8 Fuselage Kits.*