

AEROVUE TOUCH™ PRIMARY AND MULTI-FUNCTION TOUCHSCREEN DISPLAY

Certified For Part 23 Class I and II Aircraft



Honeywell

BendixKing

MODERNIZE YOUR CERTIFIED AIRCRAFT WITH A PRODUCT THAT HAS ALL THE FEATURES YOU NEED FOR A SAFE AND ENJOYABLE FLIGHT

If you have been looking for the perfect opportunity to get your hands on an advanced, shiny, brand new glass avionics display, the time is NOW for you to modernize your aircraft with a versatile, powerful, yet competitively-priced cockpit instrument: The AeroVue Touch PFD/MFD.

The AeroVue Touch is a full-function PFD/MFD solution for replacement of outdated, legacy six-pack instruments. It has been specifically designed for Part 23 class I, and II certified aircraft. It has been certified for hundreds of aircraft and models. The highest-quality materials have been incorporated into the design by BendixKing/Honeywell experts, drawing from programs such as the F-16 avionics. Years of extensive in-lab and flight tests have been conducted to ensure superior quality, reliability and safety.

AeroVue Touch is simple to install, simple to use and simple to maintain. It is packed with features, such as state-of-the-art, industry-leading SmartView™ synthetic vision, a vertical situation display that shows flight path over terrain, and ADS-B In weather and traffic and more. Finally, the AeroVue Touch offers the best value on a price per feature to lower your overall cost of ownership.



REPLACES



THE FEATURE-PACKED AEROVUE TOUCH

The AeroVue Touch replaces the outdated, legacy 6-pack instruments in aircraft, offering the following features/functionality:

A bright, 1920 X 1200 (near 4K) WUXGA high resolution 10.1" touchscreen display.

The display has the best resolution available on the market and provides a sharp, bright screen that is easily readable in daylight, even at acute viewing angles, when and where necessary.

Air Data and Attitude Heading Reference System (ADARHS):

Provides attitude, altitude, airspeed, air temperature, and heading information for the flight deck system. The precision attitude and heading reference system provides current airplane attitude based on advanced inertial sensors and an aiding source (GPS or airspeed). The sensors have been tested to operate up to 350 knots and +/- 4Gs.

Full-screen Primary Flight Display (PFD) mode, split screen PFD and Multifunction Display (MFD)

Multi-function display includes dynamic moving maps giving you the ability to view terrain features, airspace boundaries, airports, flight plan routings and navigational aid. The MFD offers VFR, in addition to IFR, setting it apart from other leading vendors. Lastly, charts, ADS-B In traffic and weather are all standard features in the MFD.

SmartView™ Synthetic Vision (derived from Honeywell Epic platforms) lets you fly easily even in the most difficult IFR conditions.

Magnetometer

The sensing unit is located internally in the airplane wing or in the empennage, separated from all devices generating electromagnetic fields (motors, ferrous metal, wiring, magnets, antennas or anything else that may cause magnetic interference). The measurements of the Earth's magnetic field data are used for long-term heading output stabilization.

Outside Air Temperature (OAT) Probe

The temperature probe is a high-quality platinum, 500 Ohm, thermal sensor. Total air temperature is sensed by an independent probe and used to calculate the OAT, which is required for the true airspeed calculation.

The AeroVue Touch is scalable up to three identical displays for a redundant configuration for increased reliability.

Each display system operates independently from the others, while backing up each other. Each can be used independently to fly the aircraft, providing up to triple-redundancy. In the rare event that one display fails, all the data and operations continue to be available in the backup display.

PFDs can be used as a full screen PFD or a split screen primary and multifunction display.

Since the MFD can operate as a full-size backup display which provides ADI, HSI, HDG, SVS, NAV/COM and A/P modes. It is much easier to navigate with a full-size backup display instead of a small 3" backup attitude indicator, even in the most difficult IFR conditions.

Built-in Wi-Fi and USB-C port to rapid download of your flight plan and databases, usually within 4 minutes.

A separate dedicated knobs-panel, that can be mounted anywhere in the aircraft, can be used as a redundant access during air turbulence.

Optional AeroWave 100 satellite-based connectivity that provides easy access to worldwide weather, voice calling, text messaging, and stock quotes.

SIMPLICITY

SIMPLE TO INSTALL

The AeroVue Touch is incredibly simple to install since the computing engine and the display are integrated, resulting in straightforward cabling and faster time-to-fly. It also integrates seamlessly with BendixKing KSN and AeroNav, Garmin GTN/GNS, and Avidyne IFD navigators, for even faster installation time, in addition to, avoiding “vendor-lock-in”.

In redundant mode, where 2 or 3 displays are installed, two independent sets of sensors and a backup sensor are connected to the aircraft battery to safeguard against any electrical failures. This architecture enables the MFD to be used as a standby system and eliminates the need for dedicated standby instrumentation, further reducing component count and the associated installation time and cost.

SIMPLE TO USE

The display and menu structure has been designed to simplify access to all critical functions in two touches or less. In general, all functions can be reached with four touches or less, resulting in minimum amount of head-down time. It enables operation with a finger, pen, or even when wearing gloves. It includes a light sensor that detects cockpit lighting conditions for automatic dimming of the display (dimming can be controlled manually, as well).

To further ease of use, AeroVue Touch comes with built-in Wi-Fi (and a USB port) that enables uploading databases within four minutes, and software updates in less than ten minutes, saving time before and after flights.

SIMPLE TO MAINTAIN

Maintenance of the AeroVue Touch is simple since the touchscreen and the computing engine are integrated and directly mounted in the panel rather than separately in the cabin. This design makes servicing the equipment much easier than systems with separate touchscreen and computing engine. In addition, with no cooling fan, AeroVue is quiet and has no moving parts to break, increasing its reliability and lowering its maintenance frequency.

The high-quality coated glass is anti-glare, anti-smudge, and anti-scratch further simplifying its maintenance.

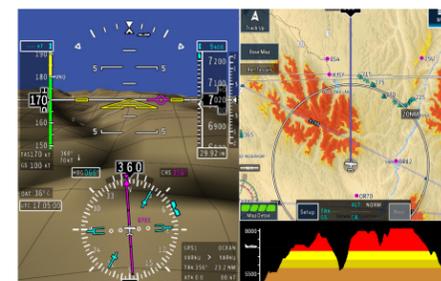


VALUE

The “Value” benefits of the AeroVue Touch stem from:

1. Highly competitive price – a high feature-to-price ratio giving you better value for your investment, since most features are standard not optional – call us at 1.855.250.7027 for a quote.
2. Reduced installation time – rapid final assembly will save you hours of installation time to either use your aircraft sooner for personal purposes or potentially make more revenue, if you are using your aircraft for business purposes.
3. Reduction in on-going maintenance and operational costs – as mentioned before, AeroVue Touch has no cooling fans or mechanical moving parts to break. Since it is panel-mounted, service timeframe, when necessary, is greatly reduced.

SCREEN DISPLAYS



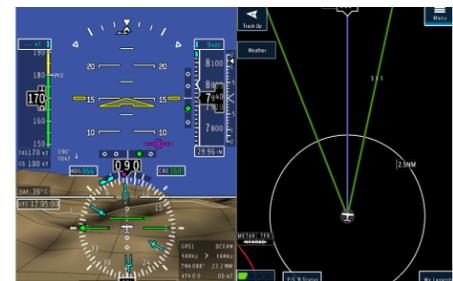
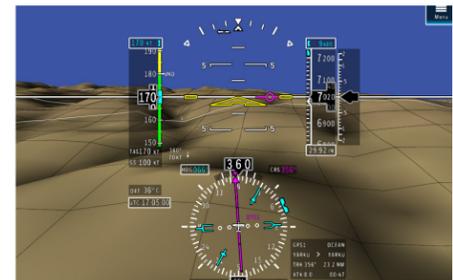
○ OPTIMIZED MENU STRUCTURE

○ VFR CHARTS AND SVS™

○ BASE MAP AND TERRAIN

○ IFR HIGH DATA

○ TERRAIN AND VERTICAL SITUATION DISPLAY



○ IFR LOW DATA

○ FULL PFD MODE

○ DEDICATED WEATHER PAGE

○ AIRPORT DIAGRAM ON CHARTS

○ KEYBOARD ACCESS TO CHARTS

COCKPIT CONFIGURATIONS

AEROVUE TOUCH WITH CONTROL PANEL



TWO INDEPENDENT AEROVUE TOUCH UNITS



TECHNICAL SPECIFICATIONS

PRIMARY FLIGHT DISPLAY

Characteristics	Specification
Dimensions	6.897 x 10.45 x 4.08 in. (175.18 x 265.43 x 103.63 mm)
Mounting Information	Front mount
Weight	7.59 lbs. (3.44 kg)
Current Draw	Typical: 1.33 AMP for 28 VDC 2.66 AMP for 14 VDC
Operating Voltage	9.0 to 30.3 VDC
Circuit Breaker	2 AMP for 28 VDC, 3 AMP for 14 VDC
Cooling	Convection cooled (no fan)
Connectors	1 female 78-pin and 1 male 78-pin
Viewing Angle Envelope	80° from all directions

AIR DATA ATTITUDE HEADING REFERENCE SYSTEM (ADAHRS)

Characteristics	Specification
Dimensions	8.65 x 5.1 x 1.4 in. (219.72 x 129.43 x 35.56 mm)
Weight	2.17 lbs. (0.98 kg)
Current Draw	Typical: 0.2 AMP for 28 VDC 0.4 AMP for 14 VDC
Operating Voltage	9.0 to 30.3 VDC
Circuit Breaker	2 AMP for 28 VDC, 3 AMP for 14 VDC
Cooling	Convection cooled (no fan)
Connectors	Male 50-pin and Female 9-pin (maintenance port)

CONTROL PANEL

Characteristics	Specification
Dimensions	1.48 x 6.25 x 3.67 in. (37.6 x 158.8 x 93.2 mm)
Mounting Information	Front mount
Weight	1.05 lbs. (0.47 kg)
Current Draw	Powered from flight display. Current draw included with flight display
Operating Voltage	Provided by flight display
Circuit Breaker	None, uses circuit breaker for flight display
Cooling	Convection cooled (no fan)
Connectors	Male 9-pin D-Sub

OUTSIDE AIR TEMPERATURE PROBE (OAT)

Characteristics	Specification
Dimensions	1.65 x 1.75 x 1.00 in. (41.91 x 44.45 x 25.4 mm)
Weight	0.15 lbs. (0.07 kg)
Current Draw	None, no interface to aircraft power
Operating Voltage	None, connected to ADAHRS, no interface to aircraft power
Circuit Breaker	None
Cooling	No cooling required
Connectors	5 ft. 3-conductor shielded wire lead, spliced into wiring harness

MAGNETOMETER

Characteristics	Specification
Dimensions	3.70 x 5.83 x 1.33 in. (93.98 x 148.08 x 37.78 mm)
Weight	0.90 lbs. (0.41 kg)
Temperature	-55°C to +70°C
Altitude	55,000 ft.
Operating Voltage	9.0 to 30.3 VDC
Current Draw (at 27.5 VDC)	80 mA Nominal, 25°C, after 2 minute warmup 200 mA Nominal, -55°C, after 2 minute warmup 700 mA Maximum, -55°C
Circuit Breaker	1 AMP for 28 VDC, 2 AMP for 14 VDC
Signal Inputs/Outputs	Serial CAN bus
Cooling	Convection cooled (no fan)
Connector	Female 9-pin

Database Upload: Over Wi-Fi and USB-C

Find Out More

To learn more, call 1.855.250.7027
to contact your local BendixKing dealer or visit
bendixking.com/en/products/aerocruze-100

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