



HeliVue

The New Vue cockpit for your AS350

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The HeliVue upgrade is a comprehensive cockpit replacement for AS350 operators that increases safety margins, operational efficiency and airframe value. The core upgrade includes the AeroVue Touch PFD/ MFD and AeroNav MFD, installed with an all new instrument panel kit and sensor package. The EFIS provides flight crew all primary flight, navigation, flight planning functionality via modern touch screen high resolution screens, with the latest advanced terrain and traffic awareness systems providing increased situational awareness.

Expandable and Evolving Core Platform

The HeliVue upgrade provides a core avionics platform that can be expanded to suit individual operator requirements through optional enablement and integrations providing functions such as advanced traffic, terrain and ADS-B In/ Out functionality.

HeliVue displays ADS-B In Traffic Information from compatible sources direct on the PFD/MFD. For operators who require TSO approved active TAS and TCAS this can be provided through optional enablement on the AeroNav, providing comprehensive composite active traffic and ADS-B in traffic information. Terrain information and Synthetic Vision System (SVS) can be upgraded by optional enablement on the AeroNav to provide TSO approved TAWS functionality.

In addition the HeliVue system is constantly evolving with an exciting 2020 product roadmap, including integrated radar altimeter display, TSO approved HTAWS, and national VFR Visual Navigation Charts displayed.

Ease of Installation

The HeliVue STC has been developed to minimize installation cost and ease integration onto your helicopter. Airframe downtime is extremely costly, so the STC is available with a full installation kit including pre-cut instrument panel, replacement lighting panel, all required sensors mounting assemblies, wiring pre-wire, and required hardware to complete the installation on standard configuration AS350 helicopters.

If required the Technical Sales Team can assist with customization of the STC and installation kit to suit your airframe configuration. The goal is to eliminate or minimize the need for customer fabrication or design approval and provide the quickest possible return to service.

AeroNav 900



- Traffic Advisory System (TAS) optional enablement
- Traffic Collision Avoidance System (TCAS) - Optional enablement
- Integrated display onto the KFD900



KFD900



- Radar Altimeter
- Integrated display into the KFD900

Electronic Flight Bag Compatible

HeliVue integrates with a variety of third party electronic flight bag (EFB) apps allowing pilots to create flight plans remotely, then upload wirelessly to the AeroNav and AeroVue. The crew can then stow the EFB and execute, and if required update, the mission using the HeliVue system interface.

The HeliVue system includes a comprehensive suite of local visual navigation databases and charts from providers such as Jeppesen and Oz runways.

Ease of Use

Both the HeliVue Touch and AeroNav have very shallow menu structures, so all flight-critical information is only 1-2 touches or button pushes away.

HeliVue gives the pilot the option between touch or tactile data entry when pilots need to be heads-up in high workload situations. This is particularly important to minimize the learning curve for pilots that are not used to flying glass cockpits.

Reliability

HeliVue addresses obsolescence issues and maintenance costs associated with legacy instrumentation and wiring. On top of that, all the components of the HeliVue package can be added to the BendixKing Confidence Plan, so in the unlikely event of a failure, you are completely covered. Through the Airwork Support and Honeywell MSP, we can offer complete coverage of your AS 350 and get you back flying with minimal disruption.



AeroVue™ Touch H (KFD900)

The AeroVue™ Touch H is a high specification touch screen solution that meets helicopter requirements by incorporating the latest electronic technology with proven Honeywell software such as our helicopter SmartView™ synthetic vision, based upon existing advanced helicopter software. This fresh approach provides you with a highly reliable, scalable avionics solution that reduces pilot workload, meets mandates and is supported by Bendixking.

AeroVue Touch H is simple to install, simple to use and simple to maintain. Finally, the AeroVue Touch H offers the best value on a price per feature to lower your overall cost of ownership.

Premium Display

A bright, 1920 X 1200 (near 4K) WUXGA high resolution 10.1" touchscreen display offers the best resolution available on the market and provides a sharp, bright screen that is easily readable in daylight, even at acute viewing angles. All flight critical functions can be reached in 1 or 2 touches and all functions in no more than 4 touches, resulting in a minimum amount of head-down time. It enables operation with a finger, pen, or even when wearing gloves. A light sensor detects cockpit lighting conditions for automatic dimming of the display (dimming can be controlled manually, as well).

The multi-function display includes dynamic moving maps giving you the ability to view terrain features, airspace boundaries, airports, flight plan routings, and navigational aids. The MFD offers VFR, and IFR charts. Integration with 3rd party EFB apps like Foreflight, Oz Runways, and WingX is built-in. Lastly, charts, ADS-B In traffic and weather are all standard features in the MFD.

Save on Maintenance

Maintenance of the AeroVue Touch H 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 engines.

AeroVue Touch H is built from single block machined aluminum with a huge array of cooling fins, not only making it extremely robust but also eliminating the need for forced cooling of the unit. This makes it silent, reduces the risk of overheating to zero, and increases the reliability by removing moving parts.



AeroNav 900

The AeroNav 900 navigator is a navigation and communication system designed for Part 27 helicopter operators. It is a full-featured GPS/FMS/NAV/COM with hybrid touchscreen/physical- knobs, wireless connectivity, 3-D synthetic vision.

The AeroNav 900 navigator is built with a page and tab FMS system, so virtually all screens are accessible in 1 or 2 interactions. The concise dropdown menus were designed to provide easy data entry of air- ways, waypoints, destinations, and procedures. It can automatically create user-defined waypoints to further ease flight-planning tasks and to make it even easier, a Bluetooth keyboard is included with every navigator to give pilots a tactile option.

To expedite the waypoint and flight plan entry, AeroNav 900 features predictive waypoint entry based upon GPS location or the previous waypoint in your flight plan. The built-in intelligent algorithm predicts the next leg or waypoint on your flight based on distance rather than alphabetic order in the database, avoiding the need to review the entire database to get to the desired entry. This dramatically reduces the effort in screen usage and can reduce data entry time by as much as 75% relative to legacy systems.

AeroNav 900 navigator also allows for rubber band flight plan editing. If you get vectored by ATC or need to fly to a new waypoint, simply press and hold the magenta line and drag it to change your flight plan on the go.

You can see a real-time graphical preview of each plan or procedure before the selection. This way you can visualize your waypoint, airway, hold, Direct-To, and terminal procedures. You can view any available approach graphically before selection. In addition, you can load or edit any number of destination airports and multiple approaches quickly into your flight plan. AeroNav 900 shows the current leg that you are flying in magenta and depicts your next leg as a magenta and white segmented line. This enhances situational awareness and allows the pilot to anticipate what's coming.



What you need, where you need it Synthetic vision on the AeroNav 900 gives the pilot redundancy in the rare case of a failure. It provides a 3-D presentation of your flight plan, color-contoured terrain, nearby obstacles, and ADS-B traffic when paired with an approved ADS-B source. Predictive Terrain Collision Alert – offers an extra measure of safety by providing visual and aural alerts if controlled flight into terrain is projected. This feature also includes HTAWS-like callouts if the aircraft descends below preset minimums based on GPS terrain.

Radio Frequencies – The AeroNav 900 automatically nominates, auto-tunes, identifies, and monitors NAV radio frequencies. You can override these anytime by manual tuning with the pop-up numeric keypad or by simply typing the identifier for the navaid. Station identifiers are provided for both the active and standby COM frequencies making it easy to determine the station with which you are communicating.

Approach Charts and Airport Diagrams – offered with AeroNav 900, this feature works with Jeppesen's™ Jeppview™ charts subscription service to give you worldwide approach charts and diagrams for over 6000 airport diagrams. Optional European VFR (Bottlang) charts for over 2,200 airports in 29 European countries are also available. Geo-referenced airport diagrams show your helicopter right on the chart, making it easy to navigate while on taxiways and runway crossings – this is especially helpful at unfamiliar airports.

AeroNav 900 is an open system that offers built-in Bluetooth and Wi-Fi connectivity so your favorite flight apps will always be part of your toolkit. It supports a growing list of third-party apps for use during your flight, including popular apps such as OzRunways, ForeFlight®, Seattle Avionics FlyQ™, FltPlan™ Go, FlightPlan.com, CloudAhoy and more to come. App support makes pre-flight planning and flight plan transfer to AeroNav seamless.



Plug and Play

Airwork's design engineers have years of experience in helicopter modifications/up-grades and when coupled with the extensive manufacturing capability we can provide a virtual turnkey solution tailored for the utility helicopter market. The HeliVue STC kit is designed to be taken out of the box and installed with minimal changes.

The kit includes:

Data

- Release Paperwork (STC Pack)
- Photo Inventory – Allowing cross-reference of the kit contents
- Individually labeled and bagged parts
- Comprehensive Installation and assembly drawings leaving no doubt about where and how to install equipment
- Reach back to Airwork/BendixKing Technical Support throughout the installation

Equipment

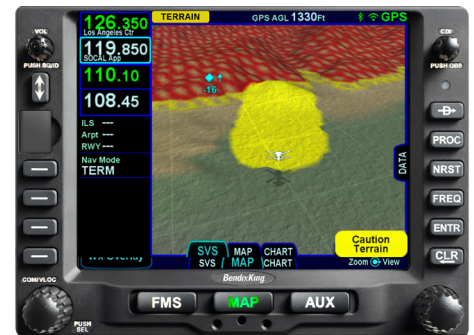
- Milled and painted cockpit panel with core avionics slots and provisions for optional customer equipment as required
- Manufactured replacement Center Pedestal – Gives the cockpit a consistent look and allows expansion of addition mission-related avionics
- Wiring harness – bolt in marked, certified
- Connectors – all connectors and fasteners
- Indicators/lights – Where required individually marked Vivi-sun Indicators
- All mounting hardware and trays – no requirement to bend tin – ensures core components (eg. ADAHRS) are mounted correctly
- LED Lighting Panel for Legacy Instruments - eliminates old fiber optic facia panel lighting

Options

- LED Lighting panel - replaces older Style fiber optic Strip lighting
- LTS 101 upgrade (Soloy STC)
- Role Equipment
 - Dual front seat
 - Hook/Mirror
 - Seat Shift Kit
 - Bleed Air
- Upholstery/beautification to Mission Avionics

HeliVue has key building blocks that allow upgrades to meet your mission needs. So if you get a contract or change mission profile we have the necessary upgrades. To accommodate mission changes we can also provide an extensive range of role equipment and specialist services that will allow you to use your helicopter as a true multi-mission machine.

The HeliVue package is an industry-leading offering that can only be made possible when you bring BendixKing and Honeywell technologies together with the helicopter modification and fabrication experience of Airwork.



HeliVue Technical Specifications

Primary Flight Display AeroVue Touch H KFD900

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

AeroNav 900

Characteristics	Specification
Display	5.7" diagonal with touch screen
	Full VGA - 640 x 480 pixels
	65,535 colors
	Ultrabright sunlight readable with LED backlighting
Dimensions	6.30" (16.0 cm)
Width	4.60" (11.7 cm)
Height	4.60" (11.7 cm)
Connectors	11.00" (27.5 cm) behind panel including connectors
Weight (Including tray & connections)	Aero Nav 900 8.79 lbs. (3.99 kg) VHF COM Power Output
	AeroNav 910 9.19 lbs. (4.17 kg)

10 Watts nominal Optional 16Watt (for 28 vdc installations only)

Magnetometer KMG 7010

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	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)
Connectors	Female 9-pin

Control Panel KCP 100

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

Database Upload: Over Wi-Fi and USB-C

Air Data Attitude Heading Reference System (ADAHRS) KG 71

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)
Operating Voltage	9.0 to 30.3 VDC
Current Draw	Typical: 0.2 AMP for 28 VDC 0.4 AMP for 14 VDC
Circuit Breaker	2 AMP for 28 VDC, 3 AMP for 14 VDC
Signal Inputs/Outputs	Serial CAN bus
Cooling	Convection cooled (no fan)
Connectors	Male 50-pin and Female 9-pin (maintenance port)

Find Out More

For a list of certified aircraft, please call us at 1.855.250.7027
or call your authorized BendixKing dealer or visit bendixking.com

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