

# **AEROCRUZE 230**

# **ADVANCED**

# **TOUCHSCREEN**

# **AUTOPILOT**

Upgrade exclusively for BendixKing  
KFC 150 and KFC 200 autopilot owners

**Honeywell**

**BendixKing**

# FLY YOUR AIRCRAFT WITH CONFIDENCE USING A HIGH-PRECISION, EASY-TO-USE AUTOPILOT

Stay confident, as your easy-to-use AeroCruze 230 flies your aircraft with precision. You can use it to reduce workload and concentrate on tasks that require your immediate attention. It helps you manage multiple tasks when you feel like you need an extra hand in complex situations as you fly today's airspace.

We designed and built AeroCruze 230 exclusively for the current owners of BendixKing's KFC 150/200. They can have their autopilot upgraded quickly and effortlessly, without the need to purchase new servos, thus saving thousands of dollars in additional costs.

AeroCruze 230 brings a substantial increase in functionality and ease of use. It is the only autopilot on the market that comes with both a touchscreen and physical knobs to make it easy to learn and use. It offers an intuitive user interface with an innovative prompt when you execute a command. For example, pressing the Heading button on the touchscreen display shows exactly where the heading AeroCruze 230 turns. With AeroCruze 230, you know what it's going to do before it happens.

AeroCruze 230 goes beyond the capabilities of legacy autopilots. For improved safety, AeroCruze 230 includes a level mode that can recover your aircraft from unusual attitudes. It also offers integrated altitude preselect, and other features, such as an optional integrated three-axis yaw damper.

When paired with a compatible GPS navigator, pilots can fly coupled-WAAS approaches as well as coupled curved path procedures. Additionally, for "back-course approaches," if the aircraft is equipped

with a digital HSI, any course intercepts requiring a turn greater than 105° will automatically activate the localizer back course, thereby reducing workload.

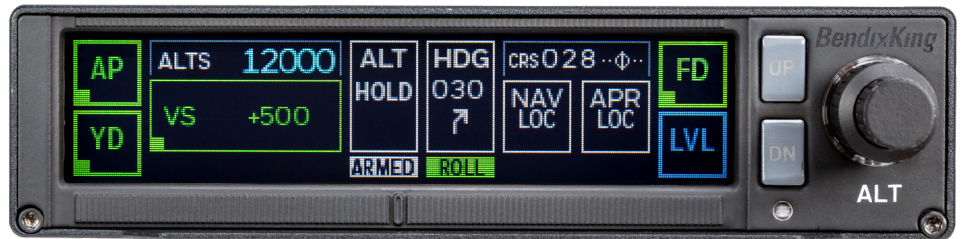
AeroCruze 230 packs a lot of features and makes your decision effortless in upgrading your KFC 150/200 autopilots. A sample set of features/benefits is given in the table below.



**TABLE 1. AEROCRUZE 230 SAMPLE FEATURES AND THEIR BENEFITS**

| FEATURES  | FUNCTION / BENEFITS  |
|---|--|
| LVL mode button   | Engages the autopilot in roll-and-pitch modes and brings the airplane to level flight. Can be used in emergencies to help recover from unusual attitudes and bring the aircraft to level flight. |
| GPS to ILS Approach sequencing                                      | AeroCruze 230 stays coupled through the sensor transitions such as en-route GPS flight to ILS approach.  |
| Flies holds automatically   | Intercepts and tracks curved path holds if a hold is part of the flight plan.  |
| Control Wheel Steering (CWS) switch                                 | Enables you take control of the aircraft temporarily without disengaging the autopilot.  |
| Takeoff/Go-Around (TOGA) button on the throttle or instrument panel | Provides a wings-level, fixed-pitch reference to help the pilot execute a takeoff or go-around maneuver.   |
| GPSS roll steering  | When coupled to a compatible GPS, seamlessly follows provided turn anticipation guidance for waypoint to waypoint transitions, improved en-route tracking accuracy and coupled LPV approaches.   |
| Trim-In-Motion alert  | Enhances safety by notifying the pilot that autotrim has been running longer than expected, notifying the pilot of a potential issue.  |
| Configurable, by installer, altitude voice alert and band limits    | Offers default altitude alerting bands for capturing and holding an altitude when not coupled. These alerting bands can be customized by the installer per the pilot's preference.               |

# SIMPLICITY



## Simple to Install

The AeroCruze 230 has a modular system architecture, which enables flexibility following installation.

The system components are:

- Flight computer
- A separate mode controller (KMC 231)
- A source of digital air data and digital attitude (such as a KG 71) is required
- The servo currently installed in your aircraft, as part of your current KFC 150/200

This modular design makes installation easy, with no changes to the panel. You also make additional savings in time by reusing your existing aircraft servos. Since you can reuse current servos, you can expect a dramatic decrease in installation time, compared to other autopilot installations. Another benefit of upgrading to AeroCruze 230 is the inclusion of a two-year autopilot system warranty that includes your current servos at no additional cost.\*

## Simple to Use

The AeroCruze 230 autopilot has a hybrid user-interface fitted with a dual-concentric knob, soft buttons, a touchscreen display, plus a set of dedicated controls for vertical adjustments. The dedicated knob/buttons are designed for functions that are frequently used. The autopilot touchscreen buttons control the engagement/disengagement of general functions and control lateral and vertical autopilot modes.

\*Dealer verification of a working system is required. The panel soft-touch up or down buttons control vertical speed targets in Vertical Speed mode, pitch reference in Pitch Hold mode and fine altitude tuning in ALT mode. An altitude selector knob helps to preselect the desired altitude, while also integrating an automatic arming logic. Turning the altitude knob automatically arms for capture the newly-selected altitude. The touchscreen display uses color references to clearly display available, armed and active functions, while the content within each button displays the targets that the autopilot is actively working to maintain.

For instance, annunciators of active modes are clearly displayed on the autopilot touchscreen in green. Available modes are displayed in white. Armed modes are identified by a white "ARMED" sign. The Level mode (LVL) displays a light-blue indicator box, light-blue text and light-blue border. When GPS is the coupled source, this is displayed in magenta.

## Enhanced Safety

AeroCruze 230 offers many safety features that help you fly with confidence and in control. At power-up, it conducts an automated "built-in power-up test" to verify the integrity of the system.

The LVL mode can help you recover the aircraft from unusual attitudes by pitch angle to 0 and rolling the wings level.

When coupled to sensors such as WAAS/MFD navigators, AeroCruze 230 can seamlessly transition between flight phases, coupling to either WAAS, LPV or ILS approaches. Altitude preselect offers

more precise altitude capturing and can be used as an altitude alerter as a reminder for your altitude clearances. AeroCruze 230 offers precise turns for curved approaches and way-point transitions even, easily compensating for crosswind conditions.

The KMC 231 touchscreen Mode Control Panel has been designed to increase flight safety by informing the pilot about "what will happen when I press this button." This way, the pilot is always in complete control of the aircraft and can anticipate AeroCruze 230 actions easily and quickly.

## VALUE

The "value" benefits of the AeroCruze 230 stem from:

- Low cost of installation by reusing existing servos and wiring, saving you thousands of dollars.
- Reduced installation time – rapid final assembly will save hours of installation time, reducing labor costs.
- Reduction in on-going maintenance costs by getting an additional two years of warranty on your existing servos and servo-mounts.

## AEROCRUZE 230 TECHNICAL SPECIFICATIONS

### CHARACTERISTICS

|                       |                                     |
|-----------------------|-------------------------------------|
| Dimensions            | 6.3x1.6x11.6 in, (16.0x4.2x28.6 cm) |
| Weight                | 2.6 lbs (1.18kg)                    |
| Operating Temperature | -20°C to +55°C (-4°F to +131°F)     |
| Operating Altitude    | 35,000 ft                           |
| Input Voltage         | 14 and 28 VDC systems (9-33VDC)     |
| Power Consumption     | 2.4A @ 14VDC                        |

### CERTIFICATIONS

TSO C-198 Environmental: RTCA/DO-160G Software: RTCA/DO-178 Level B

### STC CERTIFICATION

The AML STC covers the following airframes:

### KFC 150 UPGRADES

Aerostar Aircraft Corp. PA-60-700P (Aerostar 700P)

Textron Aviation (Beechcraft) A36/A36TC/B36TC 1984 and Above Textron Aviation (Beechcraft) B36TC, CE-511 thru CE-771, F33A CE-712 and after

Cessna 182P, 182Q, 182R, 208, 208B, 210R, T182, T210R, TU206, U206G

Mooney M20K, M20J, M20L, M20M, M20R, M20S

Socata TB10, TB20

Piper PA-32-301, PA-32-301T, PA-32R-301 (SP & HP), PA-32R-301T, PA-34-200T, PA-34-220T, PA-46-310P, PA-46-350P, PA-28-161, PA-28-181, PA-28-236, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-20T

### KFC 200 UPGRADES

Piper PA-34-200T, PA-34-220T, PA-44-180

Textron Aviation (Beechcraft) A36, A36TC, B36TC  
 Textron Aviation (Beechcraft) E55, E55A, 58, 58A, 95-C55, 95-55, 95-B55, D55, 95-A55, 95-B55A  
 Textron Aviation (Beechcraft) 58TCA, 58TC, 58P, 58PA, 58R, 58PA, 58TC, 58TCA, 58, 58A

Cessna 421C, 340A, 404, 414A

Mooney M20K, M20J

### Find Out More

For To learn more, call 1.855.250.7027  
 to contact your local BendixKing dealer or visit  
[bendixking.com/en/products/aerocruze-100](http://bendixking.com/en/products/aerocruze-100)

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