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For Sale: Re-configurable Turbine Aircraft Configuration, Cockpit Specific AATD

ESP provides a reconfigurable flight simulator, currently in the setup of a Beechcraft 1900C configuration. **With a small amount of work, it can easily be configured into a King Air model of your choice.** It is a highly immersive, cockpit-specific, Advanced Aviation Training Device (AATD) for turbine aircraft. We have added a highly accurate simulated and stimulated avionics suite with true-to-life control hardware.

1. **Certification Criteria:** The AATD is assembled to exceed FAA Advanced Aviation Training Device requirements as set forth in AC61-136, and the latest applicable FAA regulations and guidance criteria.

2. **Flight Deck:** The cockpit enclosure and area is a realistic replica of the B1900 flight deck, made of a metal/fiberglass shell, mounted on a heavy-duty metal frame, with locking wheels, that enables it to be re-positioned with ease.

   The interior is well finished with style liners, premium carpeting, and pertinent fixtures and markings. The seating consists of rail-mounted dual (Pilot and Copilot), fully adjustable B1900 style pilot seats.

3. **Panels and Hardware:** All of the cockpit panels are lit, and have B1900 style hardware installed, with realistic knobs, buttons, and switches. All toggle and push-button switches are heavy-duty, as per FAA specifications, and of the proper type.

4. **Yoke Controls:** The dual yoke flight controls are representative of the B1900 aircraft, with a complete set of functional buttons and switches, AP Disconnect, PTT, etc. The controls are heavy-duty and dampened to provide the pilot with a realistic “feel” of digital control loading system.

5. **Rudder Controls:** The dual, interconnected rudder controls are representative of the B1900 aircraft, with functional toe-brakes. The rudder pedals are heavy-duty and dampened to provide the pilot with a realistic “feel” of full digital control loading system. A functional B1900 style Rudder Trim panel is provided and installed on the center console in the appropriate position.

7. **Throttle Quadrant:** The throttle quadrant is a replica of the B1900 and is of aircraft quality, with fully functional heavy-duty components, including dual lever throttles, flight idle gate triggers, flaps, and parking brake, and all other relevant buttons, lights, indicators, and switches.

8. **Pitch Trim:** The pitch trim is manual and electric trim.

9. **Instrument Panels:** All panels, including main instrument panel, overhead panel, center pedestal, and side panels, accurately represent the B1900 panels, and includes all of the instrument displays, controls, and equipment, properly positioned and installed, in a sturdy and secure manner.

10. **Flight Instrumentation and Avionics:** The AATD is equipped with a realistic representation of the B1900 Cockpit" with high-resolution instrumentation graphics displayed on LCD monitors, and realistic representation of the avionics as found in the aircraft. Includes one (1) Garmin 430.

11. **Systems:** The major systems representing the B1900 aircraft are supported, including Pressurization, Automatic Flight, Communications (simulated radio tuning), Electrical, Emergency Equipment, Fire Protection, Flight Controls, Fuel, Hydraulics, Ice & Rain Protection, Landing Gear, Navigation, Pneumatics, Power Plant, and Warning Systems.

12. **Flight Model:** The flight model is realistic and adaptable. It is user-adjustable from the Instructor operator Station (IOS) to accommodate changes in flight conditions, such as weight, CG, Configuration, etc., with maximum ease.

13. **Sound:** The sound effects are derived from a digital recording of the B1900 aircraft, and are realistically reproduced using a multiple-channel, Bose ™ premium sound system, with a high-powered sub-woofer. The EGPWS system is accurately represented, with a complete set of multiple callouts using digitized recordings. The multiple selections of Warning and Caution messages are accompanied with the proper Auditory Alerts.

14 **Glare-shield:** Panel is heavy-duty, fully-functional, highly accurate with integrated functions and pilot/copilot controlled modes.

15 **Navigational Database:** The AATD utilizes Lockheed Martin's Prepar3D®, which comes complete with 24,900 airports, realistic air traffic control, accurate topography and more.

16 **Visual System:** The visual system is 3 channels, 200 degree, ultra-high resolution, with a world-wide database, and provides an accurate representation of the terrain. It utilizes three (3) ultra-short throw projectors that are ceiling mounted at 7 feet on 6" standoffs with a 5 ft. radius wide curved screen. This system projects highly detailed, major US and international airports, with accurate modeling and representation of the airport terminal, ramp, runway and signage,

17 **Computer System:** The computer system is installed in the instructor "Hut" with the computers connected through a LAN-based Ethernet system, with a dedicated Host, IOS, and other supporting computers.