

ARC-231 Simulator

Full-Fidelity, Turn-Key Radio Training Package



The ARC-231 simulator supports Desktop, Part-Task, Operational & Maintenance Training by providing a turn-key full fidelity simulation of the ARC-231 Radio.

Benefits

- ◆ Turn-Key Solution
- ◆ Full Fidelity Simulation of all Radio Modes and Functionality
- ◆ Supports all levels of pilot training
- ◆ Portable training package
- ◆ Desktop version deliverable over the web

The ARC-231 Simulation, through a common ICD, is designed to support all levels of training fidelity and may be integrated into desktop, part task, operational and maintenance training devices.

The ARC-231 Simulation provides all required menu-driven operations, internal diagnosis and Built-in-Test (BIT) modes, advanced data mode, interoperability features, preset modes and all required operating modes of the actual ARC-231 radio.

The ARC-231 Software Architecture is based on the Microsoft Visual Studio 2008 Integrated Development Environment (IDE) and the object oriented C# programming language. Each radio control and function is a unique C# class. Parallel execution of tasks is performed via C# threads. The ARC-231 Simulation runs in the Microsoft Windows Vista, XP, NT, and 2000 operating system environment.

The ARC-231Simulation Executive simulates the functionality of the ARC-

231 Radio Receiver-Transmitter (R/T), provides menu control for the control indicator displays, and interacts with the simulator environment via five software threads.

The most affordable, effective solution for training the operation of the ARC-231 Radio is provided by the Pinnacle Solutions ARC-231 Simulator.

ARC-231 Simulation

Technical Specifications

Windows®-based. Open software systems architecture

Common Interface Control Document (ICD)

Software Architecture is based on Microsoft Visual Studio® 2008 Integrated Data Environment (IDE) and utilizes the C# programming language

Simulates the Control Indicator and the Fill Panel

Compatible with the Raytheon Preset Planner software generated preset planning files

Software Capabilities

Supports both software and hardware based training systems

The ARC-231 Simulation supports the following types of communications modes:

- ◆ Line-Of-Sight (LOS)
- ◆ Maritime
- ◆ Have Quick (HQ)
- ◆ Guard
- ◆ Single Channel Ground and Airborne Radio System (SINCGARS)
- ◆ Satellite Communications (SATCOM) -
 - ◆ DAMA
 - ◆ Non-DAMA
- ◆ Automatic Direction Finding (ADF)
- ◆ Beacon transmission
- ◆ Scan operation

Desktop Simulation capable of introductory, basic and advanced skills training and includes an interface for instructor input to the training curriculum text.

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Simulation Based Desk-top Trainer



Integrated Simulated Hardware

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