



Our trainer enables trainees to get hands-on experience on ADF systems. The trainer ensures practical training with original aircraft ADF equipment configured to bring real-life experience to the training environment. Our design provides trainees with a good understanding of ADF equipment and a methodical approach for troubleshooting and testing procedures. We understand and tailor according to our customers' training needs.

The trainer is delivered plug and play and comes with necessary antennas, transmitters, receivers, wiring, and indicators.

Optional

- **ADF Test Set**
- **NAV/COM Ramp Tester**

Please contact us for Test Equipment .

Specifications

Features

- Understanding fundamentals of aircraft ADF and its components.
- The system mounted on a metal/aluminum mobile stand.
- Metal/aluminum frame with 4 wheels. 2 of 4 wheels are lockable.
- Training video for teachers
- Delivered fully assembled tested and ready to operate
- Colored Ultraviolet printing method on aluminum composite panel.

Components

- ADF (Automatic Direction Finder)
- ADF Indicator
- ADF antenna with coaxial connector
- Dc Power Box
- Circuit Breaker
- 20 A power supply
- Current and voltage meters
- Assembled and wired according to aeronautical regulations
- Aeronautical standard connectors and jackets.

Components Technical Specs

ADF Device General Specs

- FREQUENCY RANGE: 200KHz to 1799KHz in 1 KHz increments
- BEARING ACCURACY: +/- 3 degrees from 70 uV/m to 0.5 V/m RF input signal level
- Receiver sensitivity : 150uV/m max for s+n/n = 6dB
- Receiver Selectivity: 6dB bandwidth: +/-2 KHz max off center frequency; 80dB bandwidth: +/-7 KHz max off center frequency
- POWER REQUIREMENTS: 11 to 33 VDC – 12watt
- ADF button
- BFO button
- FRQ button
- FLT/ET button
- SET/RST button
- VOL/Off knob
- Freq display
- Original installation manual.

Optional

- **NAV/COM Ramp Tester**
- Output Power;
- ADF = -12 +/-3 dbm
- VOR= -10 +/-3 dbm
- ILS Localizer= -10 +/-3 dbm
- ILS GS = -17 +/-3 dbm
- ILS MKR = -15 +/-3 dbm
- DME = -12 +/-3 dbm
- TXPDR = -12 +/-3 dbm
- VOR radial accuracy; +/- 1 deg
- ILS localizer DDM accuracy; +/- 15%
- ILS glide slope DDM accuracy; +/- 15%
- DME accuracy; +/- 0.1NM
- Transponder specs;
- PRF 235 +/-5 Mode A,C 50 +/-2 Mode S
- P2 level equal P1 +/- 0.1 dbm
- P2 position 2 +/-0.01 uS from P1
- P3 position 8 +/- .01uS or 21 +/- 0.02uS Rel to P1

- Pulse width 0.8 +/-0.01uS P1,P2,P3
- Frequency 1030 MHz Tx, 1090 MHz Rx , +/- 2.5ppm
- Reply % 0 to 100% displayed +/- 0.5%
- Reply window 2.5 to 3.5uS F1 from P3
- Pulse Width reads out to +/- 50nS resolution
- X Data Pulse Must=0 for good read
- SPI Displays ID message

NOTE: Avionics devices brand/model and some technical specs can be change due to market availability.

Documentation

- User's Manual
- Instructor's Guide
- Device's original Manual
- Device's original Wiring Diagrams
- Components Diagrams

Power Specs

- Electrical box
- Residual current device
- Emergency Button
- Energy Signal Lamp
- 110 VAC 60 Hz or 220-240 VAC 50 Hz