







Autopilot trainer is an excellent resource for teaching the principles of automatic flight controls by demonstration using a complete system that encompasses all the aspects of two(2) axis autopilot.

# **Specifications**

### **Features**

- Indicators operate in sync with auto-pilot system
- Aircraft position controlled by yoke.
- Yoke and rudder pedal can move the control surfaces of the aircraft.
- Servos operate in sync with auto-pilot and yoke.
- 2 axis DOF system
- The aircraft automatically calibrated to runway position when the trainer is turned on.
- Instructor's panel for Fault Insertion
- The system mounted on a metal/aluminum mobile stand.
- Metal/aluminum frame with 4 wheels. 2 of 4 wheels are lockable.

## Components

#### 15-inch PFD-MFD screen

- Attitude Directional Indicator(ADI)
- Directional Gyro(HSI)
- Airspeed Indicator(ASI)
- Altimeter(ALT)
- Vertical Speed Indicator(VSI)
- Turn and Slip Indicator
- Course deviation bar(CDI)
- Course Pointer
- RPM indicator
- · Manifold Pressure indicator
- Engine instruments(Oil, Fuel system)







### Components

- Yoke (auto-centered)
- **Throttle Control**
- Pitch / Roll servos
- The trainer should have auto-pilot panel.
  - · Active AP(auto-pilot) function button,
  - · Active Pitch function button,
  - · Active Roll function button,
  - Active ALT(altitude) function button,
  - Active V/S(vertical speed)function button,
  - Active FLC function button,
  - Active HDG(heading) function button,
  - · Active FEET function Knob,
  - Active FPM function Knob.
  - · Active HDG function Knob,
  - · All function buttons should be illuminated.

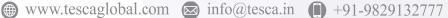
### Master Power and Switch panel.

- DC master power switch,
- · Master power lamp,
- · Beacon switch,
- · Engine Start,
- PFD circuit breaker,
- · Auto-Pilot circuit breaker,
- · Beacon circuit breaker,
- Aural warning horn
- Resettable master caution

#### **Model Metal Aircraft**

- Aircraft size should be minimum 1400mmx1300mm
- Aircraft color should be white
- · Moveable Aileron and Elevator
- · Aileron and elevator are different color
- DOF system should operate in sync with auto-pilot(aileron and elevator) and yoke.
- The trainer should have a beacon.











### **Documentation**

- User's Manual
- Study Guide
- · Instructor's Guide
- · 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



