

# Rudders for F-16 and F-22

Part # 235-10-1004

The Aerotronics Rudder offers simulation users the same form, fit and function of a flight unit at a fraction of the cost. Extremely robust construction and potentiometers promising better than 2 million cycles mean a highly reliable rudder for all training and simulation purposes.



## Construction

- Machined aluminum chassis and trolley assembly
- Ceramic coated aluminum Guide Rails with Integral Teflon sleeve Bearings in trolley

## Physical Characteristics

- Overall Maximum Width 21.0"
- Overall Maximum Length 18.0"
- Overall Maximum Height 9.125"
- Approximate Weight 30 lbs.

## Force Characteristics

- Pedal Adjustment Return Spring Force 14 lbs. (via constant force springs)
- Yaw Force for Maximum Deflection 50 to 125 lbs. (as measured from center of foot pedal – user adjustable)
- Toe Brake Force for Maximum Deflection 45 lbs.

## Pedal Specifications

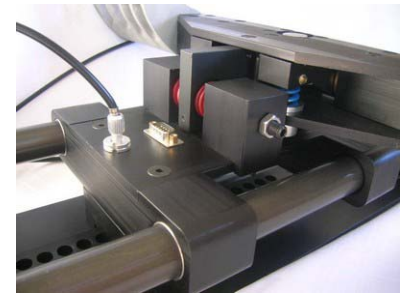
- Pedal Center Axis Height from Floor 4.625"
- Pedal linear Forward/Aft Adjustment 9.5"
- Pedal Linear Forward/Aft Adjustment Interval = 0.5 steps"
- Pull-Adjust cable for pedal Forward/Aft adjustment

## Deflection

- Rudder Yaw Maximum Deflection +/- 6°
- Toe Brake Maximum Deflection 12° (each pedal operates independently)

## Electrical Specifications

- Sensor Type: Linear Automotive Throttle Pot
- Pot Resistance: 1.8K  $\Omega$
- Pot Life: > 2 million operations (> 5 million dither cycles)
- Connector Type: 9-Pin Female DB-9 standard
- Optional USB interface (250 updates per second)



## Aerotronics Flight Simulator Systems

*High Fidelity controls at a great price*

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