



Max-Viz EVS-1000 installation kit for Challenger aircraft

Total Aircraft Services, Inc.



Total Aircraft Services

- Established 1992
- Modification Center
- Engineering Consulting Firm
- Component and Kit Supplier
- FAA Repair Station (CRS No. TOOR482Y) with Class 3 & 4 Unlimited Airframe Ratings and Limited Powerplant



- **Engineering & Administration**
16380 Roscoe Blvd.
Suite 102
Van Nuys, CA 91406
Tel: 818-892-9001
Fax: 818-892-9373
- **Modification Center**
16700 Roscoe Blvd
Van Nuys, CA 91406
(MillionAir)



What does EVS-1000 actually do?

- Sees Infrared energy
- Through darkness, haze, smoke, fog, smog
- Provides early detection of runway incursions and obstacles
- Enhanced Situational Awareness



EVS-1000 Equipment

- Sensor/Camera
- Power Supply LRU
- Cockpit Display
- Simple Wiring



EVS-1000 Instl in Challenger Aircraft

- Tip Modification for
Sensor Mounting
- Equipment Instl
- Cockpit Display
- Wire Routing



EVS-1000 Tip Modification

- The sensor mounts similar to a landscape camera in the Vertical Stab tip cap fairing
- The existing tip cap fairing is modified during the installation
- Adjustment at instl only, located for best view
- Shop Aid Tools developed to locate hole cutout and brackets/camera



EVS-1000 Equipment Instl

- The Associated LRU power supply mounts near the camera
- Simple sheet metal brackets
- Total added weight to tip is 6.8 pounds
- No other associated equipment
- Provides video output
- Requires 28VDC 7.5 Amp CB



EVS-1000 Cockpit Display

- TAS provides a 5.6" Rosen monitor with our Kit for aircraft without a capable MFD
- Monitor mounts with a swing arm mechanism
- Located on the RH side
- Added weight for Monitor is 4.0 lbs.
- Can display on Video Capable MFD





EVS-1000 Wire Routing

- All wiring is provided in the kit
- Sensor to power supply harness is 12" long
- A service loop provides for tip cap removal
- Wiring to cockpit is for power and video coax and runs:
 - Local Ground
 - Down V. Stab to boiler room
 - Thru pressure bulkhead at existing feedthrough
 - Under floor in Bagg Compt
 - Up into cabin and forward behind RH drink rail
 - Back under floor into E-bay and to cockpit
 - Est Weight 5 lbs.



EVS-1000 TAS' Kit details

- Complete installed cost
\$129,000
 - Equipment
 - Instl Kit
 - STC paperwork
 - Installation labor sent anywhere in Continental US
- Anticipated down time 3 days
- Orders currently being accepted

