

NextGen - Enhanced Flight Vision Systems (EFVS)



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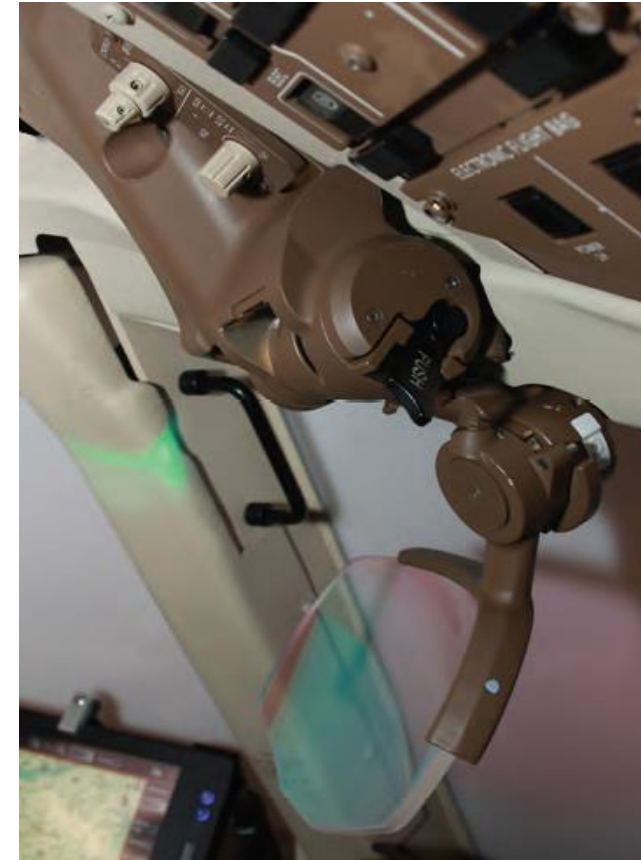
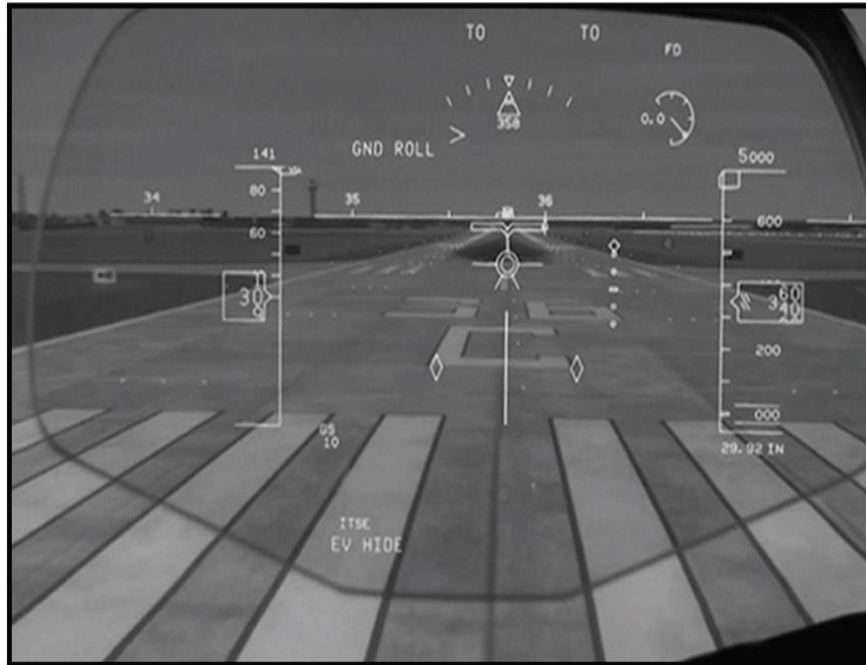
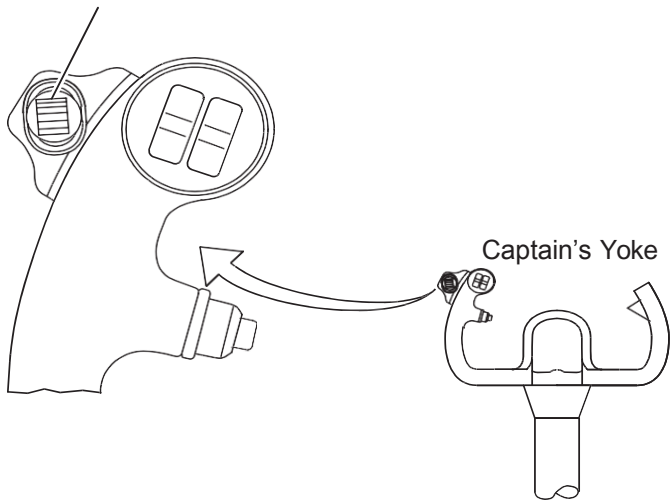
Enhanced Flight Vision Systems (EFVS)

- Aircraft Equipment
- Operation Specifications
 - Low-Vis Takeoff
 - Low-Vis Landing
 - Final Rule
- Benefits

Aircraft Equipment

Heads Up Display (HUD)

- HUD Overhead Unit
- Combiner Glass
- HUD computer
- HUD Display Control Switch



Aircraft Equipment

HUD Interfaces with the Flight Management Computer (FMC) through the Multi Purpose Display Control Unit (MCDU)




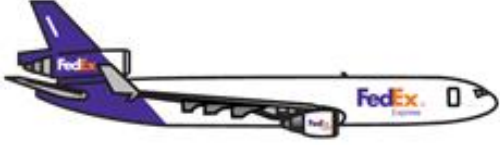
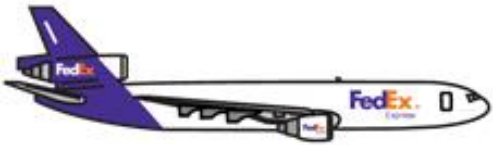


Aircraft Equipment

Enhanced Flight Vision System (EFVS)

- Forward Looking Infrared (FLIR) assembly
- Window assembly
- EFVS Processor



Aircraft Equipment

	Fleet	HUD Installations
B777		30
MD11		57
MD10		45
B767		47
B757		119

Operation Specifications

- Ops Specs C078
 - Ops Specs C078 (IFR Lower Than Standard Takeoff Minimums) allows qualified crew to make a Low Visibility Takeoff (LVTO) down to 300ft / 75m RVR on approved CAT III runways when using the HUD.
 - EFVS significantly increases situational awareness during Low Visibility operations.

Operation Specifications

- Ops Specs C048
 - Ops Spec C048 (Enhanced Flight Vision Systems) allows straight-in CAT I Instrument Approaches (IAP) utilizing G/S or VNAV vertical navigation, using a certified Enhanced Flight Vision System (EFVS) to descend below DA/MDA on straight in IAPs in accordance with applicable regulations.
- Exemption 10580
 - Exemption 10580 allows aircraft properly equipped with an EFVS to initiate and/or continue a Cat I approach with below minimums weather to 100ft above TDZE at which natural vision is required to land. {RVR minimum - 1000ft}.

EFVS Benefits

- Safety Enhancement
- System Reliability
- Support Customer Experience
- Further Serves Our Brand - *The World On Time.*



Questions?