Flight Technologies and Procedures Division

HUD

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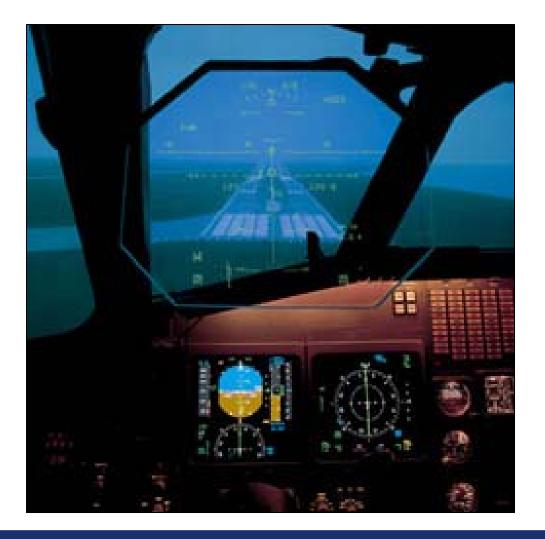
Date:

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Federal Aviation Administration

Head-Up Display (HUD)



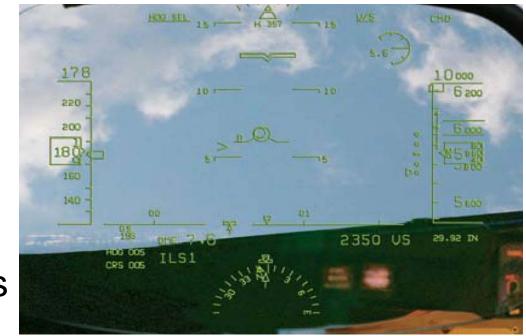
 Provides primary flight, navigation, and guidance information to the pilot in a forward field-of-view on a head-up transparent screen



Displayed Data

• Typical aircraft HUDs display:

- Airspeed
- Altitude
- Horizon line
- Heading
- Turn/bank
- Slip/skid indicators





HUD Benefits

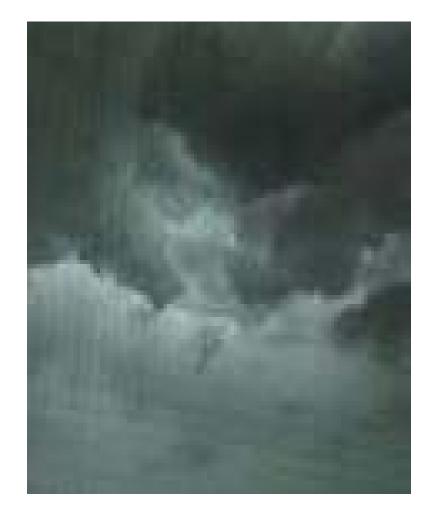
- Enhancing situational awareness
 - Visual Landings
- Unusual attitude recognition and recovery
- Tail strike advisory
- TCAS and Windshear advisories







Low Visibility Operations



- Systems improvements provide the most potential for near term benefits to operators
- Almost immediate results through implementation
- Enabled by combination of advances in ground infrastructure and aircraft avionics



Thank You!



