



# T-50 Multirole Trainer

## Today's Trainer for Tomorrow's Multirole Pilots



### Delivering Fully Trained Pilots for Advanced Fighters

*As the F-22 Raptor and F-35 Lightning II usher in a new era in fighter aviation, the T-50 is the only trainer available now that provides 5th generation flight training. The T-50 is also the best off-the-shelf solution for the USAF Future Advanced Trainer, the T-X.*

### Centerpiece of Advanced Training

**Modern, Proven Design.** Designed from the ground up as a U.S. Air Force T-38 replacement, the T-50 features a combat-rated afterburning turbofan engine, a rugged -3/+8 g structure, digital flight controls, an advanced cockpit and a multirole embedded training system. The T-50 design and performance are proven, having accumulated more than 32,000 flight hours since deliveries began in 2005.

**High Performance.** The T-50 delivers high-end performance characteristics that are critical to establishing student pilot capabilities needed to operate in a realistic operational environment.

The aircraft can perform high-g onset rates, sustained high-g turns and rapid acceleration. The T-50 provides overall agility characteristics of today's 4th and 5th generation aircraft.

**Advanced Avionics.** The T-50 features a glass cockpit with large programmable multifunction color displays designed for a wide range of pilots. Other cockpit features include hands-on throttle and stick controls, head-up display, night vision compatible interior and exterior lighting and provisions for helmet-mounted displays. An embedded training system simulates sensors, targets, threats, countermeasures and weapons to teach pilots how to collect, synthesize, prioritize and act on weapon system information in a dynamic environment.

**Complete, Fully Integrated Training System.** The T-50 is a key element of an integrated training system that combines aircraft, a range of ground-based training devices, computer-based instruction and a training management system that has been training Republic of Korea Air Force student pilots since 2007.



**Value Through Effectiveness.** The T-50 training system reduces overall training costs while improving training system safety. The high performance and advanced avionics allow training objectives to be downloaded from aircraft that are significantly more expensive to operate. Embedded onboard training systems allow student pilots to grasp operational training concepts more readily and become proficient with weapon system management at an early stage in their piloting skill development. The integrated ground-based training systems enable a balanced approach to constructive virtual and live training.



### T-50 Multirole Trainer

|                                       |                 |
|---------------------------------------|-----------------|
| Maximum TOGW                          | 29,700 lb       |
| Empty weight                          | 14,200 lb       |
| Engine thrust                         | 17,700 lb       |
| Thrust-to-weight (full internal fuel) | 0.96            |
| Maximum speed                         | Mach 1.5        |
| Design load factor                    | -3/+8 g         |
| Maximum service ceiling               | 55,000 ft       |
| Service life                          | up to 10,000 hr |
| Maximum stores capability             | 6,800 lb        |