



TH22SM Helicopter Advanced Aviation Training Device Piston Rotary Wing Training from Ab-Initio to ATP

The TH22S is the single seat version of the ELITE TH22 Advanced ATD. The TH22SM (shown at left) is the single seat version with real 3 DOF Motion System.

The kinesthetic motion cues coupled with a high definition visual system provides the pilot with realistic response, seat-of-the-pants feel, and vibrations that help develop psychomotor reflexes. What does that mean for training and proficiency?

Learn to hover, perform quick stops, decelerations, become automation proficient and experience ground contact with running landings!

“The sim is the best, the BEST that you can buy! The system is amazing in every way, and the factory service is second to none!” (Dennis Pierce, Colorado Heli Ops)

The TH22S (TH22SM with optional 3-axis motion) is a single-engine piston, single-control helicopter trainer based on the form, function, and performance of the most popular piston engine training helicopter, the Robinson R22. From startup, runup to shutdown, every detail of the R22 is accurately replicated. It is the combination of aerodynamic fidelity, ergonomics, hardware engineering and visual motion (and optional D-Box Motion System) that make the TH22S the perfect platform for learning to hover, practicing VFR maneuvers, emergency maneuvers and complete IFR flight training. ELITE helicopters are approved for 7.5 hours PVT, 20 hours IFR, 25 hours Commercial and 25 hours ATP flying credits. The TH22, TH22S and TH22SM, with the best “cost-to-benefit ratio” than any trainer in its class, gives the quickest return on investment.

The Foundation of a Profitable Business Model and Aviation Safety / Risk Management Program

- * Owners save money vs. real aircraft operational costs such as fuel, maintenance, and repair.
- * Increases sources of revenue and gives a competitive edge.
- * Students save money by learning and reinforcing critical procedures before going to the aircraft.
- * Use as a risk management tool to enhance safety, make better pilots, possibly lower insurance costs and gain a competitive advantage.



AVIONICS, INSTRUMENTATION, & HARDWARE

- Fuel control governor
- Clutch engage switch
- DG / ADF / VOR / DME / Transponder / Turn & Slip
- Marker beacon lights
- Durable industrial-grade R22 modeled flight controls
- R22 modeled aircraft system switches
- R22 modeled throttle, fuel control unit and carb heat
- R22 modeled anti-torque pedals
- Adjustable cushioned pilot seats
- Dynamic audio tactile feedback system
- Fully-coupled virtual GPS WAAS navigation

NAVIGATION, SCENERY DATA, & WEATHER MODELS

- World-wide navigation data
- Enhanced visual scenery
- Helicopter ground shadow
- Dynamic weather (clouds, winds, turbulence & icing)
- Visible precipitation (rain and snow)
- International GPS database (with Garmin GPS)
- Updateable navigation database
- ForeFlight™ compatible



EMERGENCY PROCEDURES TRAINING

- Instructor and/or computer controlled failures
 - instruments
 - receivers
 - power plant
 - systems
- Active engine, rotor & clutch circuit breakers
- Loss of tail rotor thrust
- Brown out landing & take off conditions
- Autorotations (standard, 180 deg, hovering)
- IOS control of master and advisory cautions
- IFR partial panel

MAPPING AND EVALUATION

- Portable Instructor / Operator Station (IOS)
- Plan, profile, and extended profile views
- Flight data recorder with DVD-style replay
- Aircraft repositioning / slewing
- Quick scenario reset
- GPS flight plan tracking
- Chart geo-referencing
- Virtual airport facility directory

"Helicopters are extremely complex flying machines that require superior skill sets. The missions they routinely perform are inherently dangerous. The right simulation can reduce these risks and make better pilots."

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