

Helicopter evolution TH22



TH22 Helicopter Advanced Aviation Training Device Piston Rotary Wing Training from Ab-Initio to ATP

"It's one of the most realistic helicopters Sims I have been in."- Keith M. (Robinson training manual author and R22/44 dealer for over 20 years).

The TH22 is a single-engine piston, dual-control cockpit 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 that make the TH22 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 VFR, IFR, Commercial and ATP flying credits. The TH22, 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 I 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

- o enhance safety, make better pilots, possibly lower insurance costs and gain a competitive advantage.

- o learning and reinforcing critical procedures before going to the aircraft.

- * Use as a risk management tool t



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 with over 24,000 airports
 Fifteen offshore oil rigs
 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
 User modification of navigational database elements
 Virtual airport facilities directory
 Tablet Wi-Fi connectivity for popular flight planning apps

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
 Autorotation (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
 Transponder, heading & altitude map readout
 Current "Spot" WX METAR displayed
 Aircraft repositioning / slewing
 Quick scenario reset
 GPS flight plan tracking
 Chart geo-referencing
 Virtual airport facility directory

FAA Approved AATD



"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."