



FLY IT[®]
SIMULATORS
THE STANDARD IN AVIATION TRAINING





FLYIT PROFESSIONAL HELICOPTER SIMULATOR

CONTENTS

SPECIFICATIONS	4
FLYIT RECURRENT TRAINING CHART.....	7
FIVE YEAR WARRANTY.....	9
FAULT LIST.....	10
ADDITIONAL INFORMATION	12
THE BUSINESS CASE.....	16
MONEY IN YOUR POCKET.....	17
MAKE MONEY WITH A FLYIT SIMULATOR.....	18
REDUCE ACCIDENT RISK.....	20
CALCULATE PROFIT.....	21
FLIGHTIME ASSURANCE PROGRAM.....	22
ARTICLES	25
FLYIT CONTACT INFORMATION.....	30

THE STANDARD IN AVIATION TRAINING

SPECIFICATIONS

2013 STANDARD FEATURES INCLUDED IN EVERY SIMULATOR

FAA APPROVED FOR VFR & IFR TRAINING

7.5 HR VFR.
HALF THE IFR TIME REQUIREMENT.
THE ENTIRE IFR CURRENCY REQUIREMENT.
PARTS OF INSTRUMENT PRACTICAL TEST.
50 HOURS TO COMMERCIAL.
25 HOURS TO ATP.

ALSO APPROVED IN FOLLOWING COUNTRIES

Canada	Colombia
Australia	Venezuela
South Africa	Ghana
Brazil	Russia
Philippines	

FULL SIZE COCKPIT

Dual controls (standard and Robinson cyclic included).
All instrumentation is digital. No mechanical parts.
Stick shaker.
Seats are Leather.
4 Place intercom system included.
2 Headsets are included.
Subwoofer sound system included.
Simulator is Constructed of PVC board, a lifetime material that never needs maintenance,
All metal parts are powder coated.

SIMULATION

Computer –Intel i7, 8G Ram, 2-128G solid state Hard Drives
with Operating System and Simulation, one is backup
Lockheed Martin Prepar3D software with Jeppesen 25,000 airport worldwide database
with appropriate nav aids runway/taxiway markings and lighting.
Customized “Training Scenario Development Service” available by FLYIT.
No scenery subscription is required.
Entire world is simulated with accurate elevations. Fly anywhere in the world.
Full vibration Systems, rotor vibration and you feel the skids touchdown.
Accurate Aerodynamic Flight Modeling appropriate to every helicopter being simulated.
FLYIT Professional Helicopter Simulator comes with an i-Pad Mini with Blue tooth wireless connectivity
to the simulator, see your position on the i-Pad mini, training the same way as you fly.

FLIGHT MODELS WITH APPROPRIATE INSTRUMENT PANELS AND ENGINE GAGES

Piston: R22, R44, Schweizer 300, Enstrom 280 FX.

Turbine: Robinson R66, Schweizer 333, MD 500, Bell 206, AS350 B2, Bell 407 with full FADEC failure.
(Turbine start up/shutdown)

All helicopter flight attributes and flight dynamics are exhibited, a real helicopter flight experience.

LCD HIGH RESOLUTION REAR PROJECTION SYSTEM

High resolution 1400 X 1050 projector is used.

Spare projector bulb.

95” x 78” **Advanced Ground Reference Out the Window** view (**AGROW**). Student learns to hover.

OUT THE “SIDE WINDOW” VIEWS

2-HD LED Monitors provide Left & Right out the “SIDE WINDOW” Views. A 240° look at the sky improving low altitude navigation, confined area operations, hover training, flying orbits, accident scenes, formation flying, etc.

AVIONICS STACK – Upgraded Simulated Bendix/King

Dual NAV/COM Transponder ADF
DME HSI RMI

Simulated Garmin 430W with updatable database is included.

Options: Dual 430W, Garmin 530W, Garmin 1000H.

INSTRUCTOR COMMAND CENTER (ICC):

3 LCD monitors, desk and chair.

All information is displayed simultaneously. Clicking through menus is not required.

Moving map, flight review, print vertical and horizontal flight path.

On the fly weather change.

Relocate the aircraft, drag on map or slew.

Record and replay flights with the student from inside the cockpit view or with an external view of the aircraft.

Dedicated instructor fault panel and wireless keyboard that can be used in the cockpit or at the instructor desk. Allows failure of aircraft systems including tail rotor failure, instruments and avionics.

Select any meteorological weather condition including all precipitation, icing, etc.

Change clouds and wind direction and intensity at multiple elevations.

Local or global weather, changing en route.

A significant advancement over the old “Graphical Instructor Station” still in use by other simulator manufacturers.

Instructor Command Center has interface control of G 430W.

MOUNTED IN 18’ TRAILER/CLASSROOM (PERMANENT INSTALLATION AVAILABLE)

Insulated side walls, floor, roof and doors.

RV style 5,000 BTU heat and 13,000 BTU air conditioning.

A turnkey package, plug and fly. 110 V or 220 V.

20 + YEAR LIFE EXPECTANCY Airframe and software can be constantly upgraded.

5 YEAR WARRANTY AND TECHNICAL SUPPORT the longest in the simulation industry.

FLYIT FLIGHTIME ASSURANCE PROGRAM (no specific service training required).

FREE software upgrades when released by FLYIT (no subscription required) scenery, engine parameters, flight dynamics, flight models).

FREE 2-3 day “train the trainer” program in Carlsbad California. Customer pays travel expense. Customer approves their simulator for shipping at this time.

FLYIT production cockpit specific simulators: Robinson R22,R44, R66, Schweizer 300, 333 turbine, AS350 B2, AS 350 B3, AS 355, Bell 206, Bell 407.

OPTIONS (Everything else is included)

“FLYIT Motion System”, *gives a sense of being suspended in the air.*

Cave Environment 280° X 100° field of view (23’ x 23’ room required).

Dual Garmin 430’, Garmin 530W, Garmin G 1000H.

CUSTOM COCKPIT SPECIFIC SIMULATORS AVAILABLE.

FLYIT SIMULATORS are in regular use in: Australia, Belgium, Brazil, Canada, Colombia, Dominican Republic, France, Ghana, Ireland, Mexico, Nigeria, Norway, Panama, Philippines, Poland, Russia, Saudi Arabia, South Africa, South Korea, Spain, United Arab Emirates, USA (Alaska, Hawaii), Venezuela.

THE STANDARD IN AVIATION TRAINING



FLYIT RECURRENT TRAINING CHART

HIGH LEVEL STANDARDIZED
RCURRENT TRAINING



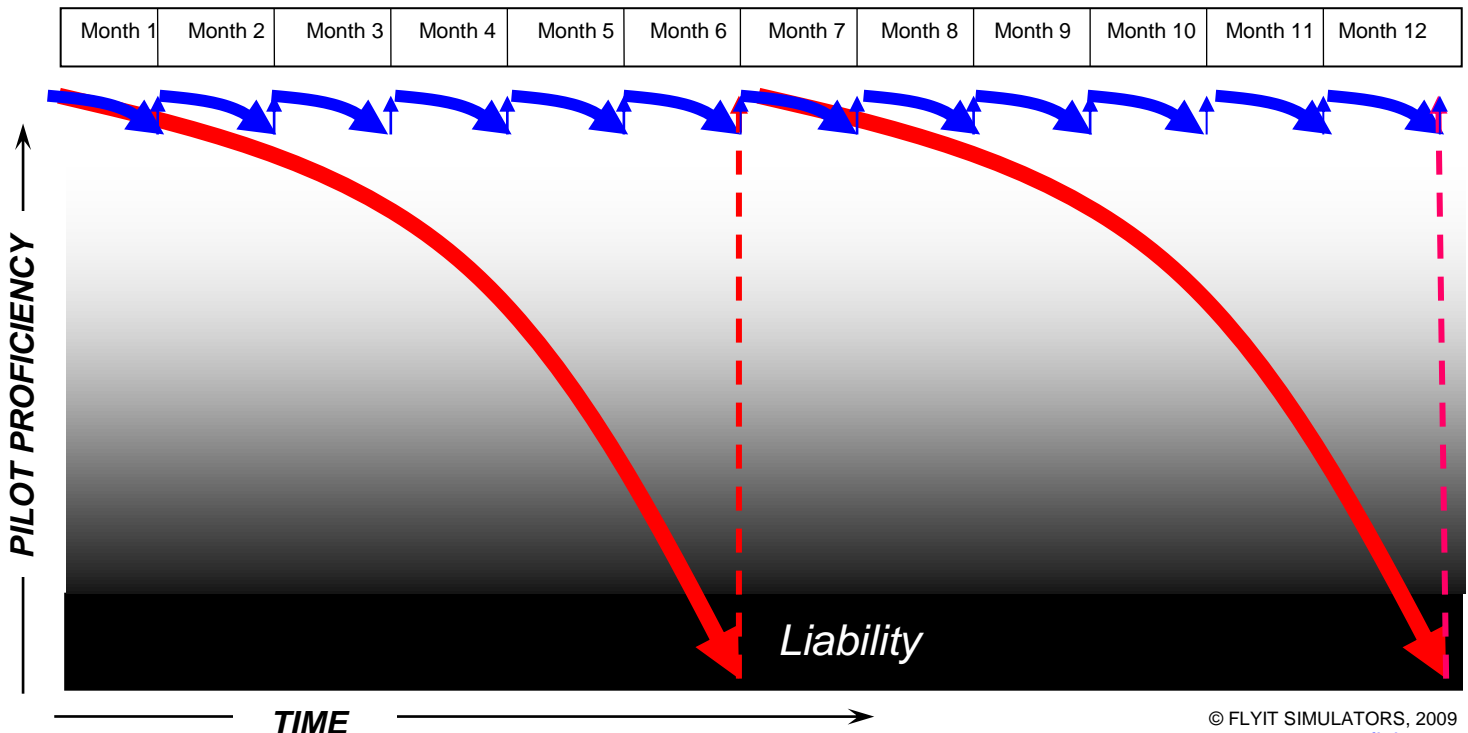
FLYIT SIMULATORS

Monthly Training →

Typical, Old Six Month
Training Cycle →

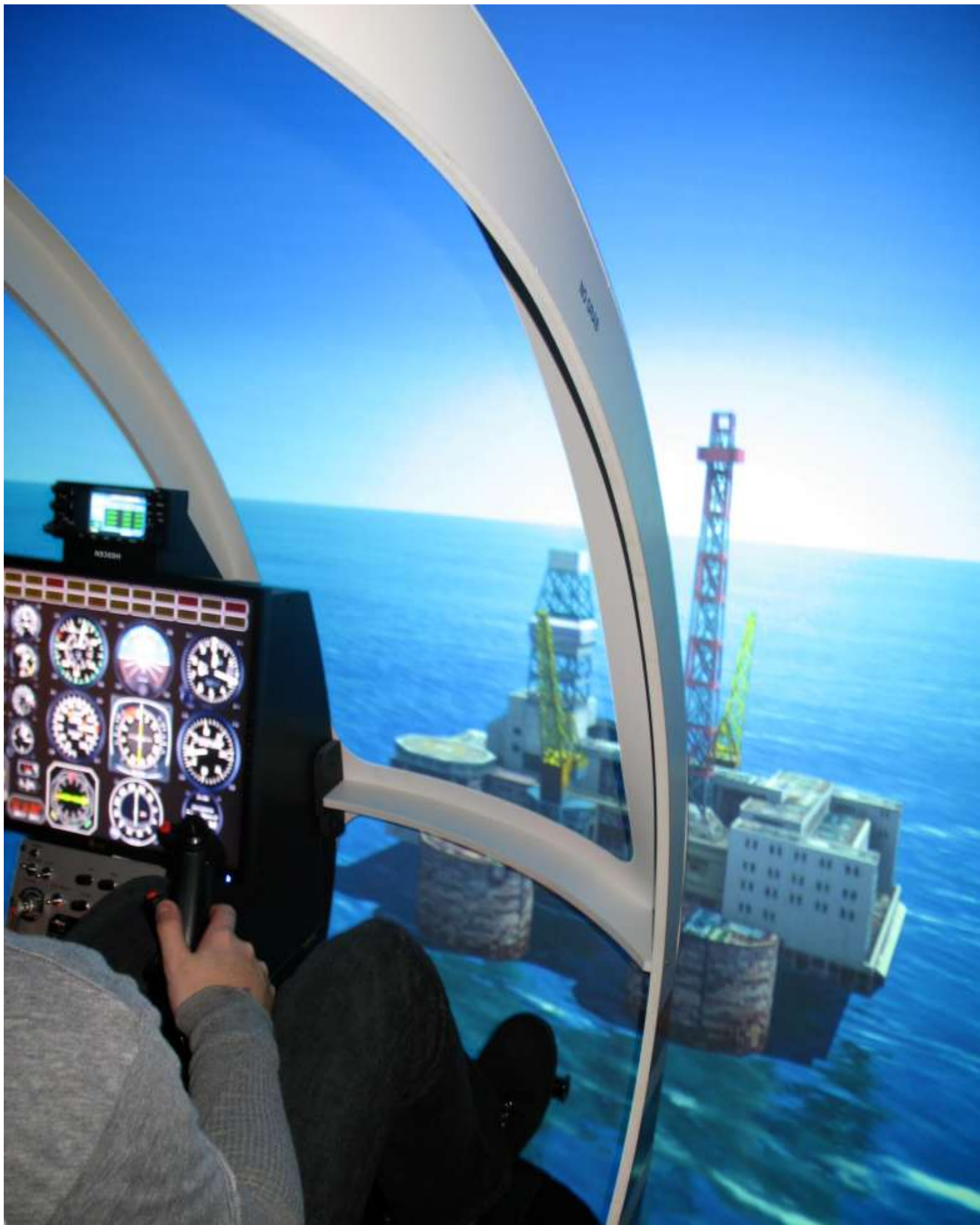
FLYIT's Digital Simulator has set a high standard for High Level affordable training. Affordable means every pilot can train every month and maintain the highest possible level of proficiency for a fraction of the cost of the old 6 month programs.

HEMS operators around the world are using the following Recurrent Chart with the FLYIT Professional Helicopter Simulator to Eliminate IIMC Accidents



© FLYIT SIMULATORS, 2009
www.flyit.com

THE STANDARD IN AVIATION TRAINING



FIVE YEAR WARRANTY

- **THE FLYIT PROFESSIONAL HELICOPTER SIMULATORS, after 12 years of manufacturing the PHS delivered around the world, require so little warranty work that FLYIT is able to offer the 5 year warranty**
- **Many FLYIT Simulators have now accumulated as much as 6,000 hours with no warranty requirements**
- **FLYIT Simulators are being used in training for as much as 13 hours per day 7 days per week, year after year with no down time**
- **Over 11 years FLYIT warranty requirements have averaged less than .001 %**
- ***No other simulator manufacturer is willing to stand behind more than a 1or 2 year warranty***

FLYIT has manufactured simulators since 1993.

THE STANDARD IN AVIATION TRAINING

FAULT LIST

Failures Accomplished From Menu

Instruments:

Attitude
Vertical speed
Airspeed
Altimeter
Turn coordinator
Heading indicator/DG

Systems:

Vacuum
Pitot heat
All electrical
All radios

Avionics:

Nav
Com
Txp
ADF
HSI

Engine:

Total failure

Robinson normal & abnormal start-up
& shut-down procedures

Turbine normal or Hot Start

FLYIT fault box failures

(not all failures apply to all flight models)

Aircraft systems:

Engine
Inlet Turbine Temperature
Oil Pressure
Oil Temperature
MGB Chip
TGB Chip
MGB Pressure
MGB Temperature
Tail Rotor Drive
Tail Rotor Control
Alternator Generator
Electrical
Pitot
Static
Clutch
Hydraulics
Fuel Pressure
Low Fuel
Engine Chip
Engine Fire



Programmable for specific or random failure times
Can also be failed real time from the
Instructor Command Center (ICC)
Or Fault Box

ADDITIONAL INFORMATION

FEATURES THAT MAKE FLYIT PROFESSIONAL HELICOPTER SIMULATORS STAND OUT AGAINST ALL OTHER SIMULATORS

THE MOST PROFITABLE TOOL AN AVIATION BUSINESS CAN OWN

If used full time (40 hours per week) the FLYIT Professional Helicopter Simulator (PHS) will earn \$175,000 net profit per year.

If used half time (20) hours per week) the FLYIT PHS will earn \$72,000 net profit per year.

The PHS will generate \$100,000 per year net profit with only 26 hours use per week.

Total cost breakeven is only 1 hour per day use.

2 students 1 hour 3 times per week pay's debt service + earn \$10,000 per year net profit
(This is based on \$100.00 per hour use, 6 days per week, minus \$1.00 per hour FLYIT PHS operating cost).

FAA APPROVALS

First and only simulator at FTD level accurate and realistic enough to be approved by the FAA for 7.5 hours VFR hover training.

FAA training is approved for the R22, R44 when the FLYIT PHS leaves the factory and does not require yearly re-qualification like other simulators.

INSTRUCTOR STATION

It simultaneously displays the following:

Out the Window Views	Weather information
All instruments	Vertical and horizontal flight profiles
Choice of several moving maps	G 430 W can be tuned from the Instructor Station

Using the FLYIT hand held dedicated Fault Box the instructor can fail individual instruments & aircraft systems from the cockpit, at the instructor's desk or standing behind the cockpit without having to use a laptop computer or keyboard.

Flights can be recorded and replayed with an interior or exterior view of the aircraft for student/instructor analysis.

The instructor can build & save an unlimited number of flight training scenarios.
The FLYIT PHS training scenarios can be set-up & flown anywhere in the world to all of the 25,000 airports.

COCKPIT

Looks & feels like the real aircraft.

Cyclic stick shaker for realistic control feel, you can actually feel the Helicopter skids touchdown.

Pitch & roll trim is standard.

Five-speaker subwoofer sound system.

Pilot, co-pilot, instructor and observer intercom system is a standard feature.

Simulated Garmin 430W is included Garmin 530W is available, Simulated Bendix/King Gold Crown radio heads provide Com/Nav, TXP, ADF, Auto-Pilot optional.

FLYIT Simulators are constructed entirely of permanent materials that won't scratch or peel. Metal parts are powder coated. (Others use particle board and plywood painted sheet metal).

FLYIT SIMULATORS ARE SO RELIABLE THAT FLYIT HAS THE ONLY 5 YEAR WARRANTY, MOST OTHERS CAN ONLY STAND BEHIND A 1 YEAR WARRANTY

SIMULATION SOFTWARE

All IFR navigation instruments including RMI and GPS are standard.

The system is so reliable that it does not need a service contract.

Helicopters included are: R22, R44, Schweizer 300, Enstrom 280 FX, R66, MD 500, and Bell 206, Bell 407, AS 350 B2, Robinson and standard cyclic are included.

Technical support and service are provided direct from the factory in California.

A backup solid state hard drive with the operating system and simulation is included to insure maximum uptime performance.

The entire world's surface is accurately simulated and included.

A Jeppesen database of 25,000 worldwide airports & all Nav aids is included.

Users can build their own scenery, buildings, landing pads, runway markings, etc. using third party software purchased by the user.

FLYIT Scenario Builder Service is available, your hanger/office/helipad, accident scene, oil rig, etc.

Artificial intelligence aircraft are available in the air & on the airport, included at your airport.

FLYIT Simulators can be networked together for formation flying through a LAN or through the internet. Formation flying can also be flown with artificial intelligence aircraft.

Offshore oil rigs, ships and other pinnacle platforms are included.

OUT THE WINDOW VIEW

The FLYIT Ground Reference out the Window Views shows the ground below the pilot's feet (essential for hover training, pinnacle approach and confined area training).

The Out the Window View projector has overnight replacement should a malfunction occur.

The Out the Window View uses a high resolution SXGA (1400 x 1050) LCD projection system No more jagged lines at the airport. **A spare bulb for the projector is included**

OUT THE "SIDE WINDOW" VIEW

The out the "SIDE WINDOW" views enhances low altitude navigation, confined area operations, flying orbits, and makes hover & formation flying training possible.

THE SYSTEM

The entire simulator comes standard in a self-contained trailer/classroom, fully insulated, air conditioned and heated.

A single, state of the art computer is mounted in the cockpit.

The single Computer eliminates the usual problems of trying to keep multiple computers talking to each other. Most simulator manufacturers use multiple computers.

The simulator is a complete stand-alone cockpit and can be easily removed from trailer/classroom.

Avionics are designed and manufactured by FLYIT for reliability.

The total operating cost is less than \$1 per hour and earns 3 times more net profit than the real helicopter.

Overnight component replacement is standard procedure.

There are over 120 FLYIT simulators in constant training around the world.

Some PHS have more than 6,000 hours of flight time that equates to **\$594,000 net profit or more !!**

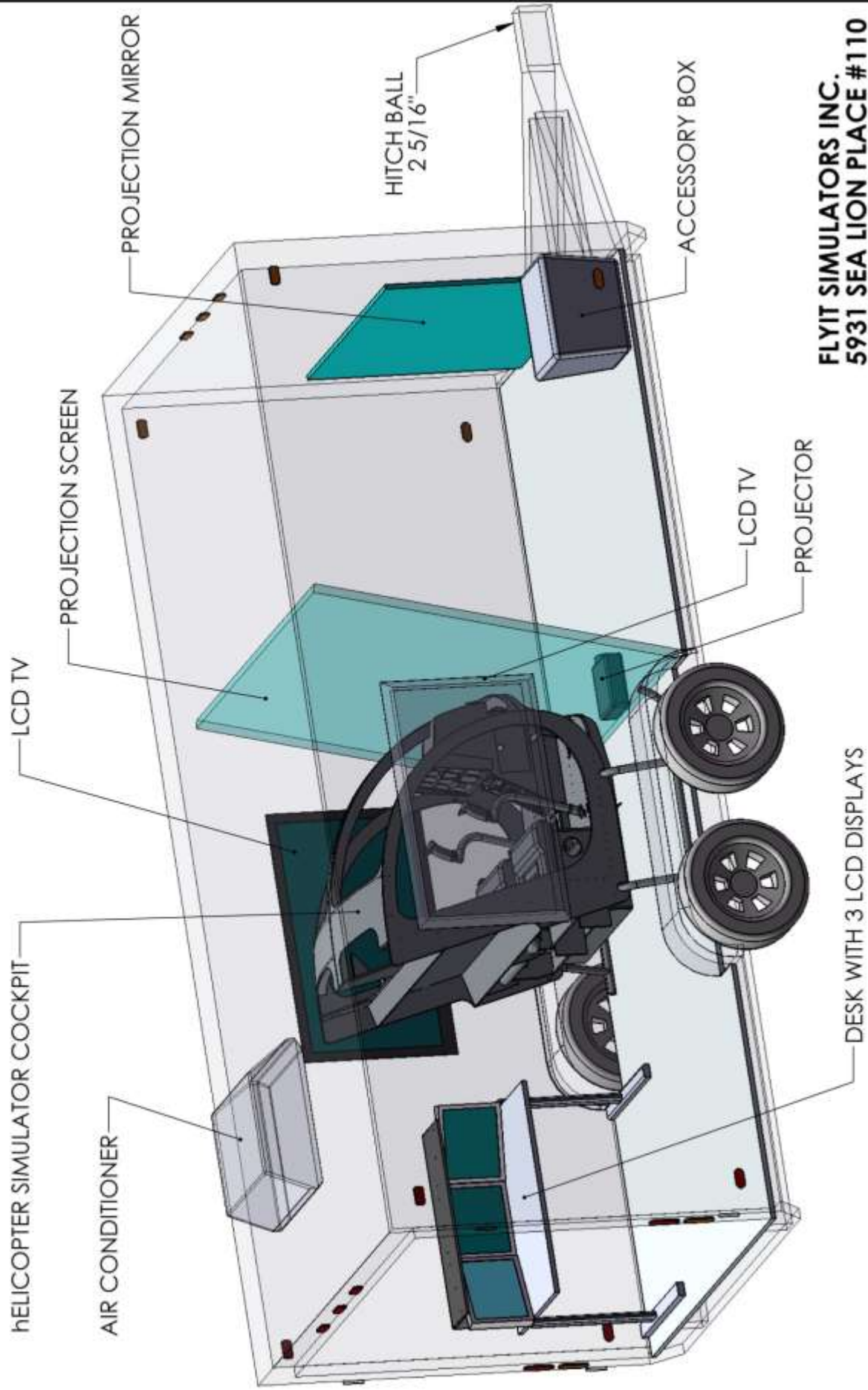
Free customer training at the factory on your PHS prior to shipping is included. Customer authorizes their simulator for shipping at this time. (Customer pays travel expense.)

FLYIT Professional Helicopter Simulator Is the Most Profitable Training Tool An Aviation Business Can Own

THE STANDARD IN AVIATION TRAINING

FLYIT SIMULATORS INC. PROFESSIONAL HELICOPTER SIMULATOR

TRAILER WEIGHT 3,700 lbs 1678 kg



FLYIT SIMULATORS INC.
5931 SEA LION PLACE #110
CARLSBAD, CA. 92010

THE BUSINESS CASE



IN THIS DOCUMENT:

MONEY IN YOUR POCKET

MAKE MONEY ANALYSIS

REDUCE ACCIDENT RISK

CALULATE PROFIT

FLIGHT TIME ASSURANCE PROGRAM

THE STANDARD IN AVIATION TRAINING

MONEY IN YOUR POCKET

Make \$199,200 net profit per year with the FLYIT Professional Simulator



ONLY 6 hours per week breakeven

All time over 1 hour per day 6 days / week (breakeven) is dollars in your pocket

Net annual profits can exceed \$205,920 USD based on 46 hours per week use
(Calculated minus 6hr/wk. breakeven)



\$\$



MAKE MONEY WITH A FLYIT SIMULATOR

Frequently Asked Questions

HOW DO I FIGURE OUT WHAT TO CHARGE STUDENTS FOR TRAINING IN THE FLYIT PROFESSIONAL HELICOPTER SIMULATOR (PHS)?

- The national average for PHS simulator training is \$100/hr. plus instructor.
- This includes both VFR and IFR training.
- Students are Internet savvy and “shop” flight schools to get the best deals. Any “price reduction.” from real aircraft training is attractive to students; **they want to SAVE money too!**

HOW MUCH WILL THE FLYIT PHS COST ME TO OPERATE?

- Based on an average of 26 hours per week:

Housekeeping and general maintenance	.25 per hour
Electricity consumption	.25 per hour
Projector bulb amortization	.25 per hour
Equipment maintenance	<u>.25 per hour</u>
Total Cost of Operation	\$1.00 per hour



WHAT CAN I EXPECT FOR RETURN ON INVESTMENT BY USING THE FLYIT PHS?

- Based on \$100/hr. student charge, and \$1.00/hr. direct operating expense = \$99.00/hr. net profit
- Assuming a monthly debt service of \$2,000/month (60 month business lease)

Training Hours		Net Annual Profit
Breakeven <i>That's just 1 hour per day</i>	6/hr. per week =	\$0 USD
Net Profit	16/hr. per week =	\$51,480 USD
	26/hr. per week =	\$102,960 USD
	46/hr. per week =	\$205,920 USD

MOST PROFITABLE TOOL AN AVIATION TRAINING BUSINESS CAN OWN



REDUCE ACCIDENT RISK

The national average for training time to the Private or Instrument ratings in the helicopter only; is approximately 70 hours*. Integrating the FLYIT Professional Helicopter Simulator into the training program is regularly producing excellent students in 35 to 40 hours in the helicopter; this is **40% to 70%** less time than the national average. *As published in FAA records for year 2000 statistics



IFR RATING RISK EXPOSURE

If 70 hours are trained in the helicopter, that equates to 70 hours of accident risk exposure. If 27 hours are trained in the FLYIT Professional Helicopter Simulator and 20 hours are trained in the helicopter (part 61), that means only 20 hours of accident risk exposure. (Assumes FLYIT students continue to ace check rides in minimum time required)

That is a potential 69% reduction in accident risk exposure.

PRIVATE PILOT RATING RISK EXPOSURE

If 70 hours are trained in the helicopter, that equates to 70 hours of accident risk exposure.

If 27 hours (or less) are trained in the FLYIT Professional Helicopter Simulator and 33 hours are trained in the helicopter (part 61), that means only 33 hours of accident risk exposure. (Assumes that FLYIT students continue to ace check rides in the minimum time required)

That is a potential 53% reduction in accident risk exposure.

The FLYIT simulator allows flying of every procedure over and over again until it is perfect.

Frequently in the real aircraft students are trained to be just good enough, not always perfect.

INSURANCE COVERAGE FOR YOUR FLYIT PROFESSIONAL SIMULATOR

The simulator can be covered one of several ways

1. Under your existing blanket coverage for hangar and contents if kept in the hangar. Some policies will cover the simulator under contents.
2. As a simulator to remain on airport property and not taken on the road.
 - Approximately \$800 per year
3. As a simulator to be regularly driven on the road for promotion, etc.
 - Approximately \$1,600 to \$1,800 per year
 - Contact FLYIT Simulators for insurance company referrals

THE STANDARD IN AVIATION TRAINING

CALCULATE PROFIT

FACTS:

Breakeven is 1 chargeable hours per day (Covers debt service/payments)

Operating cost is \$1 per hour

Usual charge is \$100 to \$120 per hour, plus instructor

Net operating profit is \$99+ per hour (3 times the net profit made on real training helicopters)

Chargeable Hours per Week	Net Profit per Year in USD
6	Breakeven (Just 6 hours per week will cover debt service/payments and overhead)
10	\$20,592 (calculated minus 6 hr. breakeven) (This is just 2 students, 2.5 hours, 2 times per week)
14	\$41,814 (Adding 4 more hours doubles your net profit)
18	\$61,776 (Flying your real helicopter 18 hours per week will only earn approx.\$32,760)
22	\$82,368
30	\$123,552
35	\$149,292
40	\$175,032

THE STANDARD IN AVIATION TRAINING

FLIGHTIME ASSURANCE PROGRAM

1. 5 YEAR WARRANTY

A FIRST IN THE SIMULATION INDUSTRY, FLYIT WARRANTY AND SERVICE REQUESTS OVER THE PAST 12 YEARS HAVE BEEN SO FEW THAT FLYIT IS ABLE TO SUPPORT SUCH A STRONG PRODUCT AND OUR CUSTOMERS WITH A 5 YEAR WARRANTY. THE LONGEST IN THE INDUSTRY!

2. BACKUP SOFTWARE

TWO REMOVABLE HARD DRIVES WITH THE OPERATING SYSTEM AND THE SIMULATION SOFTWARE ARE SUPPLIED WITH EVERY FLYIT SIMULATOR. IF FOR ANY REASON THE PROGRAM BECOMES CORRUPT SIMPLY INSERT THE BACK-UP DRIVE AND CONTINUE TRAINING. A SPARE PROJECTOR LAMP IS ALSO INCLUDED.

3. COMPONENT REPLACEMENT

ALL FLYIT PROFESSIONAL SIMULATORS COMPONENTS THAT WILL EVER NEED SERVICE BY FLYIT CAN BE EASILY REMOVED AND SHIPPED OVERNIGHT TO FLYIT. THE PARTS WILL BE IMMEDIATELY SERVICED OR REPLACED AND RETURNED BY PRIORITY DELIVERY TO THE CUSTOMER. NO WAITING FOR TECHNICIANS WHO MAY NOT HAVE THE CORRECT PARTS OR KNOW-HOW.

4. TECHNICAL SUPPORT IS AVAILABLE FROM 9:00 AM TO 5:00 PM PACIFIC TIME.

99% OF ALL TECHNICAL SUPPORT IS HANDLED IN A MATTER OF MINUTES OVER-THE-PHONE.

5. SCHEDULED MAINTENANCE PROGRAM

WEEKLY

SIMPLE CLEANING OF COCKPIT INTERIOR AND TRAILER INTERIOR INCLUDING INSTRUCTOR DESK AND MONITORS. VERIFY LOCATION OF SPARE HARD DRIVE AND SPARE PROJECTOR LAMP

MONTHLY

CLEAN COMPUTER AIR FILTER
CLEAN PROJECTOR AIR FILTER
CLEAN PROJECTION SCREEN
CLEAN PROJECTION MIRROR
CLEAN ALL CONTROL POTENTIOMETERS (4)
CHECK POTENTIOMETER TRAVEL
DEFRAGMENT HARD DRIVE

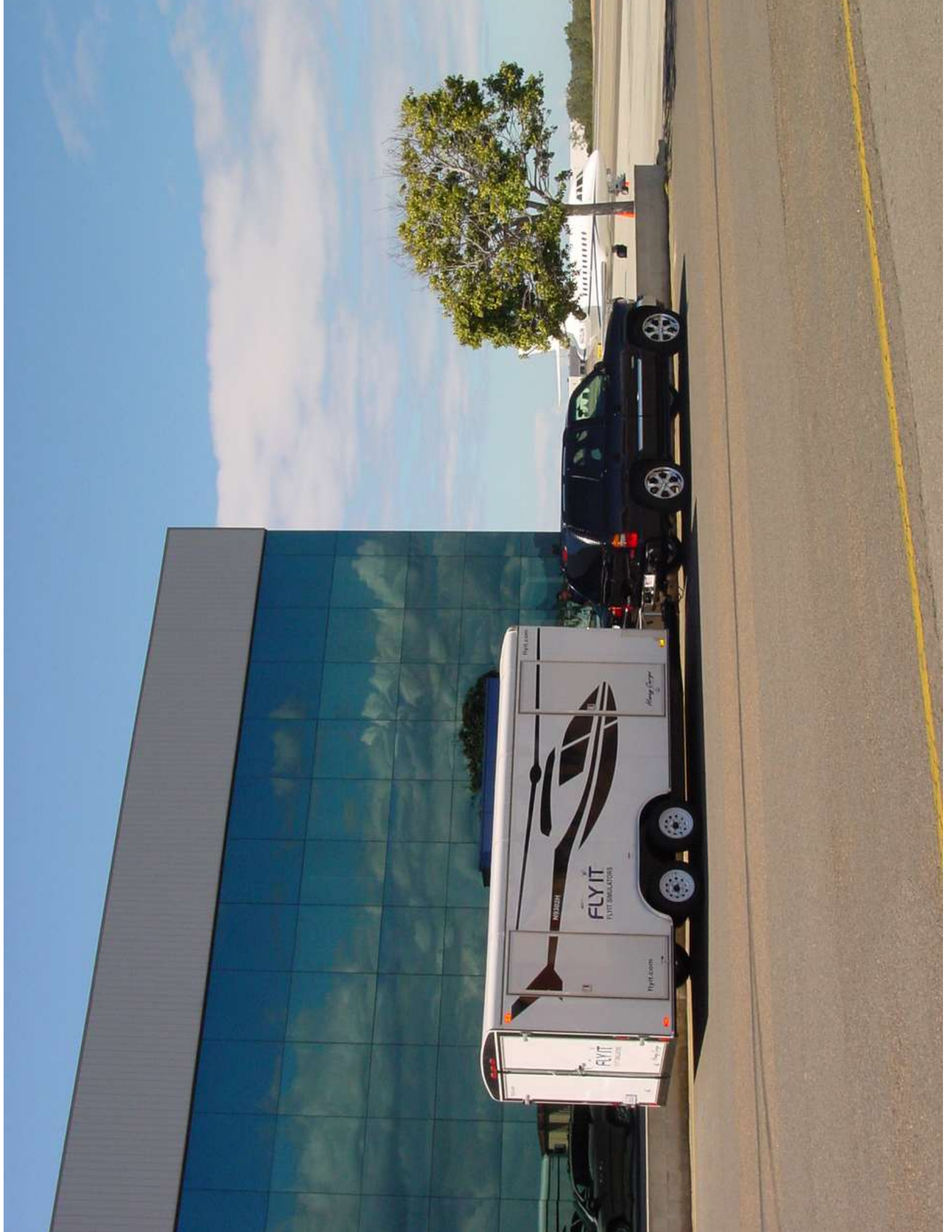
YEARLY

REPEAT THE WEEKLY AND MONTHLY ITEMS

THIS 5 POINT FLYIT "FLIGHTIME ASSURANCE PROGRAM" PROVIDES A SOLID READY TO TRAIN SIMULATOR

IT REALLY IS THAT SIMPLE!

THE STANDARD IN AVIATION TRAINING



FLY IT
FLY IT SIMULATORS



IN 3022H

flyit.com

flyit.com

Always Charge



ARTICLES

FLYIT SIMULATORS INC ADDRESSES SAFETY

SAFETY

The entire buzz these days is safety, as it should be, with IIMC accidents a constant high on the list. As we all should know, the learned ability to control the aircraft by reference to gages only is a rapidly perishable skill. Yet pilots are constantly inadvertently flying into IMC conditions and losing control of the aircraft. Most of the time, they are not aware that their skills have depreciated so rapidly. The established training routine is to send pilots to a large training center every six months or every year for recurrent training. This amounts to wishful thinking since those instrument skills begin to depreciate immediately unless that pilot regularly spends a minimum of five to 10 hours a month flying in the actual IFR environment. FLYIT has seen CFIs that spend all their time doing instrument instruction for a year or more and had lost their ability to fly in IMC conditions because the student had been doing all the flying.

A WORKABLE SOLUTION

FLYIT has many HEMS, Law Enforcement and Search and Rescue customers who use the FLYIT Simulator scenario based training to maintain “confirmable” instrument currency and IIMC capability for instrument and non-instrument rated pilots. This usually requires two hours in the FLYIT Simulator every month to maintain a very high level of skills. Cost of training in the real helicopter is usually the reason skills are not maintained to a usable level. A FLYIT Simulator costs \$1 per hour to operate. IIMC training scenarios representing the chain of events leading up to IIMC accidents can be set up and saved for monthly training. You can know exactly where your pilots’ IIMC skills are every day. The FLYIT Simulator is also an excellent tool for evaluating effects of sleep deprivation, work fatigue and apprehension.

FLYIT, THE BEGINNING

FLYIT entered the simulator manufacturing business through an SBIR contract award from the US DOD to produce a research Apache Helicopter cockpit for the Aero Medical Lab at Fort Rucker. Phase 3 of this project was to commercialize what we learned and that represents the FLYIT Professional Simulators we build today. Of course, there has been a lot of refinement along the way.

FLYIT HELICOPTERS

The FLYIT Professional Helicopter Simulator is FAA approved as a generic instrument trainer. The cockpit size and structure is dimensionally similar to the MD 500 Bell 206 and comes standard with flight models for the MD 500 Bell 206, Schweizer 300, Enstrom 280 FX, Robinson R 22 and R 44. FLYIT is currently building an AS 350 B3 simulator, completely operational VEMD, for a large utility company. We have already delivered several AS 350 B2 and AS 355 simulators. Four Schweizer 333 simulators are in training at a foreign military installation and two more are being constructed for them. Other FLYIT cockpit specific simulators are Bell 206, MD 500, R 44 and R 22. All turbines have accurate turbine start and shut down. Hot starts and all other failures can be initiated by the instructor from the instructor’s hand held fault box from in the cockpit, at the instructor’s desk or standing behind the cockpit. A long line option with downward view is also available.

FLYIT FLYING QUALITIES

FLYIT proprietary high level flight models provide accurate flying qualities and then are programmed to match performance numbers in the aircraft POH for the aircraft. In fact, FLYIT flying qualities are so accurate that the FAA has granted the FLYIT Professional Helicopter Simulator 7.5 hours toward hover training and is the only FTD approved by the US FAA for hover training. Tell us what aircraft is required and we will build an accurate performing simulator for it. No other flight data is required. Several subject matter pilots fly and fine tune each new simulator after completion. FLYIT control systems achieve a very high level of realism. Pilots have a real flying experience in a FLYIT Simulator. Most FLYIT personnel are fixed and/or rotorcraft rated pilots and spend hours in our own simulators and have experience in other simulators, including Level D FFS.

FLYIT RELIABILITY

FLYIT Simulators represent a sophisticated COTS application supporting an extremely low service requirement. In fact, FLYIT's four year warranty has been so successful for the last six years that it has been extended to five years for 2011. All serviceable components are overnight replaceable. After eleven years of producing the FLYIT Professional Simulators and over 100 simulators around the world in 20 countries, FLYIT has never had to send a technician to a customer's site for service. FLYIT does send technicians to a customer's facility to bring older FLYIT Simulators up to current standards. Several FLYIT Simulators have over 6,000 hours of operation with no service requirement. This history is why FLYIT is able to offer and support a five year warranty. FLYIT Simulators are in regular training at universities, military installations, law enforcement, HEMS and large and small flight training schools.

December 22, 2011

FLYIT SIMULATORS, THE BEST TOOL YET TO TRAIN FOR IIMC

Several years ago FLYIT Simulators received a call from a Sheriff's Aviation Unit stating that they had lost a crew to IIMC. The sheriff's instructions were, "Find a way to make sure I don't ever again have to tell families their loved ones have died in a helicopter crash."

They have now had a FLYIT Professional Helicopter Simulator for seven years and every pilot is now able to maintain the skills required to fly by reference to gauges only. Their pilots who are instrument rated also maintain instrument currency in the FLYIT simulator. Their FLYIT simulator is also being loaned to neighboring sheriffs' departments.

A couple of years ago two young instrument instructors came to FLYIT to be trained in the use of their simulator before shipping. Both of these young instructors were accompanied by the more seasoned owners (both retired airline) of the flight schools who were able to fly instrument procedures in the simulator immediately. The flight instructors, both of whom had been doing steady instrument flight instruction in the helicopter for about a year could fly the helicopter simulator in VFR conditions but could not fly by reference to gauges only.

In both cases, after flying the simulator with the more seasoned instructors, it was observed that while the young instructors had been doing instrument instruction for a year, they had not actually flown the helicopter themselves, and their IMC skills had greatly depreciated. After about one hour in the FLYIT Professional Helicopter Simulator, their IMC skills were back online.

There is very little that is intuitive about flying by reference to gauges only. These are learned skills that depreciate rapidly with non-use. Many companies will send pilots for currency training once or twice a year which insures good skills when they return, but after six months, if they are not constantly using those IMC skills, their ability to fly by reference to gauges only, have probably depreciated to a dangerous level.

The FLYIT Professional Helicopter Simulator and the FLYIT Professional Airplane Simulator are affordable tools to ensure maintenance of high level skills to fly by reference to gauges only, by training in the simulator a couple hours every month. Now Inadvertent Flight into Instrument Meteorological Conditions is a survivable event. Cost of training in a FLYIT Professional Helicopter Simulator is less than \$1 per hour and no fuel is required.

FLYIT sees many pilots who are instrument rated and say they are IMC current. About one third of these pilots, when asked to fly the simulator by reference to gauges only have obviously lost those skills through lack of use. The critical point here is that most of them are not aware their skills have depreciated. With a FLYIT Professional Helicopter Simulator or Professional Airplane Simulator there is no reason why every pilot, even those without an instrument rating, can't maintain the skills to fly by reference to gauges only, with full and partial panel. The FLYIT Simulator is the perfect tool for a pilot to check their currency skills.

FLYIT simulators are FAA approved for half the instrument rating requirement and the instrument currency requirement. The FLYIT Professional Helicopter Simulator is the first simulator at the FTD level to be approved for 7.5 hours of initial hover training.

The old paradigm in the simulator industry was that simulators require constant maintenance and service to keep them running even 50% to 80% of the time. By producing a digital simulator with very

few moving parts, FLYIT has accomplished nearly a 100% uptime record. 99% of all tech support calls are solved within 15 minutes over the phone. FLYIT has simulators in the field with 6,000 hours of training time that have had no maintenance or service requirement except to replace the 2,000 hour life bulb in the out-the-window view projector.

In addition to IIMC skills, FLYIT simulators are being used for other emergencies: loss of tail rotor control, autorotation, avionics failure, individual gauge failure, plugged static system, alternator failure and transmission and chip lights can be turned on. Autorotation can be flown to power recovery, run on landing and full down landing. Loss of tail rotor control can be practiced until a successful emergency landing is accomplished. The FLYIT simulator is also a great tool to practice pinnacle landings and slope landings. Some of these procedures cannot be safely practiced in the real aircraft. Scud running conditions can also be simulated.

The standard FLYIT Professional Helicopter Simulator can be flown as the R 22, R 44, R 66, Schweizer 300, Enstrom 280 FX, Enstrom 480 F, MD 500, Bell 206 and OH 58. FLYIT also produces AS 350 B2, AS 350 B3 and AS-355 simulators. All of these simulators are perhaps the tool yet to train for Inadvertent Flight in to Instrument Meteorological Conditions.

Once the FLYIT Professional Helicopter Simulator has been acquired, the cost of training is never again a reason to have pilots flying missions without proper IIMC capabilities. Train in the FLYIT simulator regularly, check IIMC skills and retrain those skills on an ongoing basis. Now, the director of training and safety can take a proactive role in training, checking, measuring skills and retraining; a process that will significantly improve safety.

FLYIT PROFESSIONAL SIMULATORS ADVANCING SIMULATION MUCH HIGHER LEVELS:

REALISM

FLYIT Professional Airplane and Helicopter Simulators flight models are so accurate they match performance numbers in each aircraft Pilots Operating Handbook (POH). Included in every Airplane Simulator are flight models for: Cessna 172, 182 RG, Piper Warrior, Piper Archer II, Piper Seminole and Beech 58 Baron. Complete with copilot gauges and GNS 430 W. The FLYIT Helicopter Simulator includes flight models for R 22, R 44, Schweizer 300, Enstrom, MD 500, Bell 206 and AS 350 B2. You can fly them all in each FLYIT Simulators. In fact you get everything in every FLYIT Professional Simulator. The whole world, 24,000 airports, training and rescue scenarios and much more. Go to www.flyit.com.

FAA AUTHORIZATION

FLYIT Simulators have been authorized by the FAA as level 3 FTD and AATD representing a group of aircraft. The simulation software was MS Flight Simulator. The FAA does not authorize the simulation software specifically. It is authorized as part of the entire simulator. FLYIT was however the first simulator authorization using MS Flight Simulator. Since Prepar3D is an evolution and enhancement of FS X the flight characteristics of the FLYIT Flight Models have not changed and the original FAA authorization will still apply. FLYIT Simulators builds its own flight models which have stayed the same thru out the various iterations of MS Flight Simulator. FLYIT Simulators now under development will be FAA authorized as AATD, Level 5 FTD. ICAO level 4 and 5 FSTD will also be authorized. All will be "Powered by Lockheed Martin Prepar3D". FLYIT Simulators has chosen Prepar3D because we feel is hands down the most powerful and flexible simulation software available to us.

FLYIT SUPER COMPUTER

This powerful computer gives FLYIT the ability to provide much extreme density and accurate scenery with much higher frame rates FLYIT can now achieve smooth running 60 frames per second with very high scenery density. Fly from San Diego to New York and see every town, lake and airport and tune in every nav aid along the way. The FLYIT 210° view lets you dead recon all the way or you can fly IFR all the way from LA to New York. All ground reference maneuvers can be introduced in the PAS and PHS then perfected in the real aircraft. You can fly up to 20 ILS or LPV approaches in one hour. The GNS 430W is included.

RELIABILITY

MADE IN USA

The FLYIT PAS and PHS include the only 5 year warranty ever offered in the flight simulator world. Most others are only able to stand behind a 1 year warranty. In 12 years FLYIT has not had to send a technician to a customer for warranty service.

FLYIT Simulators are constantly training in 23 countries. Some averaging 13 hours per day. FLYIT Simulators have overnight parts replacement. FLYIT Professional Simulators are completely assembled and tested before shipping, Plug and Fly. When your FLYIT Simulator is ready to ship you receive a free 3 day train the trainer program at the FLYIT factory. FLYIT Simulators use a single Super PC resulting in much greater reliability than those simulators requiring multiple computers.

REVENUE

The FLYIT PAS is the most profitable business tool a flight training business can own. 1.5 hours per day of chargeable time will guarantee that you will never have negative cash flow associated with your FLYIT Simulator. In fact if you use your FLYIT Professional Simulator 20 chargeable hours per week it will put over \$100,000 per year in your pocket. Fuel savings per student trained PPL thru IPL is \$4,500.

STUDENTS PAY LESS AND THE TRAINING SCHOOL EARNS MORE A LOT MORE.

FLYIT SIMULATORS ARE: *MADE IN USA*



FLYIT CONTACT INFORMATION

5931 Sea Lion Place #110
Carlsbad, CA 92010 USA

www.flyit.com

(760) 603-8200 office
(760) 603-9282 fax
(866) 814-9678 toll free in US

Contact Sales:

Pete Gillon

Director of Worldwide Sales

(910) 371 0837 office
(910) 367 1609 mobile
pete@flyit.com

Terry J. Simpkins

Chairman, Sales & Marketing

(760) 603 8200 office
terry@flyit.com

THE STANDARD IN AVIATION TRAINING