

# THE SOURCE FOR HELICOPTER SIMULATION



**FRASCA**  
FLIGHT SIMULATION

# FRASCA

WHERE SIMULATION  
AND REALITY MEET

## Simulating reality

For over 60 years Frasca's mission has been to provide the best flight simulators available to improve aviation safety. This applies to every helicopter simulator we build. Our simulators are designed for training pilots to be ready for real world situations. This is where simulation and reality meet. This is where Frasca excels.

## Built for you

We are a premier provider of helicopter simulation products. Our FSTDs are used by top flight training organizations worldwide because we go above and beyond the industry standards - resulting in devices that exceed expectations and enable realistic simulated learning environments for basic and complex mission training. Our experience provides you with the confidence that your project requirements, budget, and schedule will be met.

With our on-site manufacturing facility, we are able to translate your unique requirements into a custom designed simulator. From start to finish, our sales, manufacturing and support team will ensure your experience is equal to the quality we put into our simulators.



Leonardo AW139 FSTD



Sikorsky S92 Flight Test



EC225 Full Flight Simulator



Bell 407GX Full Flight Simulator



## ROBINSON R44 FSTD

Frasca builds a wide range of helicopter FSTDs. Shown above is a Level 5 R44 FTD, the most advanced R44 simulator in operation. The highly detailed cockpit systems offer incredible realism with aerodynamic modeling based on Full Flight Simulator data packages. Training value is enhanced with a three channel wrap-around visual display system. Glass cockpit configurations are available.

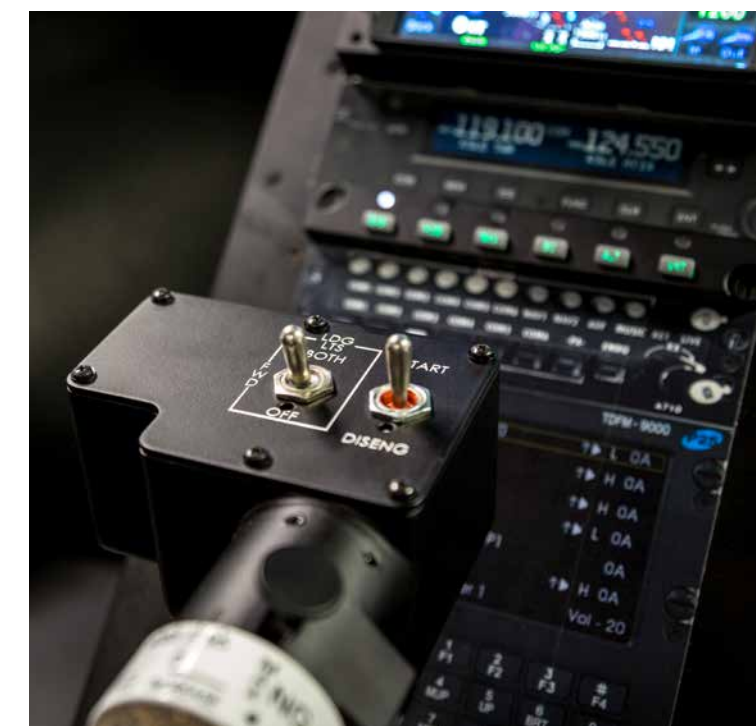
*With Frasca, the best solutions for your training needs are within reach*

## FRASCA HELICOPTER TRAINING DEVICE



### Affordable, Accurate and Reliable Simulation for Helicopter Training.

Our Helicopter Training Device (HTD) is built with aerodynamic technology used in our Level D simulators but at an affordable price. Designed for IIMC - inadvertent IMC encounters as well as operational and procedural training, the FRASCA HTD gives you training value with a no nonsense approach. You get the features you need to train your pilots in a reliable and affordable FRASCA device.



### FEATURES

- One aircraft configuration kit - Select from B206, B407, R44, AS350, MD500
- Either 500TXi or analog instrument panel
- Garmin GTN 650
- Collective grip based on your aircraft configuration kit (governed or ungoverned piston, modulated, or FADEC)
- Annunciator Panel and Circuit Breakers required in RFM procedures
- Frasca's Helicopter Mission Training Database
- Single or 3 channel visual system
- Simplicity Touch-Screen Instructor Station
- AATD Approved

# TYPE SPECIFIC FSTDs

Frasca's type specific FSTDs offer additional training features and more advanced technology. The Airbus AS350/H125 FSTD shown features a highly detailed visual database (Frasca's TruVision™ Global), simulated VEMD displays, NVG compatibility, Electric Control Loading, multi-channel sound simulation, our Simplicity™ Instructor Operator Station and more.

*Frasca's technology and attention to detail is apparent in every simulator we build*

*Airbus AS350/H125 FSTD*



# FRASCA MOTION CUEING SYSTEM (FMCS)

## PRECISION ENGINEERED FOR EXCEPTIONAL TRAINING VALUE

Frasca's Motion Cueing System is a compact motion system designed to increase pilot training efficiency by providing very accurate vestibular & proprioceptive feedback through cueing and vibration. **The results are incredibly realistic motion cues and vibrations during flight - ultimately allowing for better and more efficient pilot training.**



*Airbus AS350/H125 FSTD Equipped with FMCS*

## TECHNOLOGY

FMCS consists of a 6 Degree of Freedom (6DoF) motion base optimized for helicopter simulation and is based on technology used in FRASCA's Level D Full Flight Simulators.

## REALISTIC MOTION

Frasca's MCS has a faster response than a conventional 60" system. This allows for more realistic cues during complex tasks such as hover. In addition, pilot workload to fly the FTD is reduced to be comparable to that of the aircraft – **the pilot can focus on the mission aspect of his training rather than simply controlling the FTD.**

# FULL FLIGHT SIMULATORS

Frasca's Full Flight Simulators (FFS) combine high fidelity with value. Each simulator is customized to your specific needs. Frasca has delivered FFSs for the Bell 407GX (shown below), EC225, S92, Bell 412, S76 and other helicopter models. Our simulators incorporate decades of engineering and manufacturing innovations. They are durable, reliable, easy to upgrade, and feature advanced sub-systems (electric motion, wrap around visual displays, NVG compatibility and more) designed to give you the edge in pilot training. FAA, EASA and other qualifications are available.

*Maximize your training potential with Frasca*

**ARE YOU TRAINING WITH THE HIGHEST FIDELITY SIMULATOR?**

*Bell 407GX Full Flight Simulator*

You want the experience in the simulator and the real aircraft to be as seamless as possible. Frasca's full flight simulators will give you transfer of training at the highest fidelity.





Bell 212-412 FSTD

## MILITARY SIMULATION

Frasca's military helicopter simulators feature realistic simulated learning environments for complex mission training. These include NVG compatible cockpits, FLIR systems, vibration platforms and full motion bases. Frasca provides reliable simulators needed to train safer helicopter pilots.

*Trust Frasca to deliver high value, low risk training solutions*

## WE WORK WITH ORGANIZATIONS LARGE AND SMALL

THERE'S NO SUBSTITUTE FOR  
**EXPERIENCE**

Some of the most successful training organizations in the world use our simulators. They recognize that reliability and fidelity are necessary components for a successful simulator training solution.



WHAT MAKES FRASCA THE BETTER CHOICE FOR YOUR  
**SIMULATOR?**

### When you turn it on, it just works

All of the realism in the world doesn't mean much when you start your simulator and it doesn't work. Frasca simulators give you the stability that you can rely on. "Built to last" and "very dependable" are phrases our customers use to describe their Frasca simulators.

### World class support when you need it

It's nice to know that when you need parts and support, Frasca will be there now or 10 years from now. It's even better to know that you probably won't need it. We have spent years perfecting the reliability of our simulators so you can spend more time training with your simulator and less scheduling maintenance time.

### Quality and on time delivery

Frasca is the premier provider of helicopter simulators worldwide. Our simulators, ranging from AATDs to CPTs, FSTDs and FFSs, are in use at top flight training organizations worldwide because we go above and beyond the industry standards. When you demand the most realistic simulated learning environments for complex mission training, you can be confident that Frasca will deliver.

# TECHNOLOGY TO GIVE YOU THE EDGE

We know that technology moves fast. At Frasca, we keep pushing the limits to maximize training realism. From our Simplicity™ IOS to a new ground breaking Motion Cueing System to continued advances in flight testing and visual systems, our attention to detail is designed to maximize training potential, opening up new tasks for simulator training and improved pilot buy in. Our technology pushes your training to the next level.

*NVG Training Capabilities*



*Electronic Flight Bag*



*TruVision Global™ - Oregon Database*



WE WILL CONTINUE TO LEAD IN SIMULATION FOR DECADES TO COME WITH OUR ADVANCED **TECHNOLOGY.**

## Advanced technology

- Blade Element Momentum Theory (BEMT) is used to match your aircraft objectively and subjectively with the simulator models
- Flight testing capability
- High fidelity cockpits
- Electric Control Loading and Advanced Sound Systems
- TruVision Global™ – Our incredibly realistic visual system
- SimAssist™: Frasca's solution to acclimate new pilots to simulator training enables the simulator to adapt to the student's proficiency and enhance training efficiency
- Simplicity™ is a Frasca developed COTS software suite provided as the Instructor Operator Station (IOS). It provides the operator with control over the simulation environment and access to various training management and maintenance tools
- Frasca Motion Cueing System (FMCS)
- Vibration Systems



























*Simplicity™ - Instructor Operating Station*



*AS350/H125 Flight Test*

# HELICOPTER SIMULATION PRODUCT RANGE

	AIRBUS AS332		AIRBUS UH-72 LAKOTA		BELL 212		ROBINSON R22 / R44 / R66
	AIRBUS AS350 B2 VEMD		AIRBUS EC225		BELL UH-1H		SIKORSKY S300
	AIRBUS AS350 B3E H125		BELL 206		BELL 429		SIKORSKY S76
	AIRBUS EC120		BELL 407GX		LEONARDO AW119		SIKORSKY S92
	AIRBUS EC135		BELL 407		LEONARDO AW139		SIKORSKY S92 CPT
	AIRBUS EC155		BELL 412		Frasca HTD		Medical Crew Training Device

EXPLORE ALL THAT FRASCA HAS TO OFFER AT: [WWW.FRASCA.COM](http://WWW.FRASCA.COM)

## DON'T SEE WHAT YOU NEED?

We can build it for you. Frasca's on-site engineering and manufacturing team is always ready to create exactly what you require.





# FRASCA

F L I G H T S I M U L A T I O N



FRASCA is a world leader in the design and manufacture of Flight Simulators, Flight Training Devices and Simulation components. Frasca has a proven reputation for delivering high quality simulation equipment and leads the industry in simulation technology such as aerodynamics simulation, flight test, data acquisition, visual systems, NVG simulation, control loading, motion systems, motion cueing, manufacturing & fabrication, electronics design and more. Since its founding in 1958, over 3000 Frasca simulators have been delivered worldwide. Frasca is ISO: 9001:2015 certified.



**Contact us today to discuss your training requirements.**



[www.FRASCA.com](http://www.FRASCA.com)

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