

Drilling Simulator X5

Ultimate mobility for training well control concepts anywhere, anytime



The Endeavor Drilling Simulator X5 was functionally designed with portability and dynamic operation in mind. Together with Endeavor's powerful computational models with state of the art graphics, the Drilling Simulator X5 provides best in class training for all workers tasked with well control responsibilities.

Endeavor Technologies software defines the simulation experience. Content is consistently updated to meet demands of the latest well control practices, allowing trainers and students to stay current with industry advancements. With an emphasis on industry leading graphics, students are presented with a realistic environment to complete simulations in a non-graded practice session, or in a graded scenario that meets the standards of IWCF and IADC.

To ensure that students grasp critical concepts, Endeavor takes a unique approach by randomizing malfunctions or by giving an instructor control of incidents from a remote station. This allows a true, unbiased training environment that is consistent to ad hoc incidents that can occur in the field.

In addition to individualized training, multiple students and instructors can join into a single simulation for team collaboration. Crews can be tested together to ensure compatibility prior to engaging in work environments.

As with all Endeavor Drilling Simulators, the software engine driving the simulations are consistent across all Endeavor products. This allows students to focus their learning on the most important area, the learning content so that competency can be achieved.

With the Drilling Simulator X5, portable well control simulation can solidify concepts and train workers anytime, anywhere in the world.

Benefits

- Transportable in a single checked case
- Setup and take down in under ten minutes to maximize training time
- Interactive content to engage students
- Graded and non-graded scenarios
- Customizable modules tailored to an organization's policies and procedures
- High performance video graphics
- Choke panel with cable extension for physical separation
- Drillers console for drawworks control
- Consistent simulation software with the entire Endeavor product line
- Multiple students can access a single simulation for team development
- Interoperability with Endeavor. One online platform for continuous professional development

Product Specifications

Package Includes

- Remote Choke Panel
- Remote Choke Panel Touch Screen
- Drilling Console
- Drilling Console Touch Screen
- Instructor's Laptop
- 15.6" Rig Floor Monitor
- 4-Port Network Switch
- Cable Bundle
- Pelican Case
- Custom Foam Inserts

Choke Panel Specifications

- 342mm W x 112mm D x 110mm H
- Choke Open/Close Lever
- Choke Speed Potentiometer Dial

Choke Panel Touch Screen

- 292mm W x 8.5mm D x 201 mm H
- Resolution: 2736 x 1824
- Touch: 10-point multi-touch
- i5 Intel Core processor
- 128GB SSD

Driller's Panel Specifications

- 342mm W x 112mm D x 110mm H
- Driller's Brake Up/Down Lever
- Choke Speed Potentiometer Dial

Driller's Panel Touch Screen

- 292mm W x 8.5mm D x 201 mm H
- Resolution: 2736 x 1824
- Touch: 10-point multi-touch
- i5 Intel Core processor
- 128GB SSD

Instructor Laptop Specifications

- 383mm W x 260mm D x 27mm H
- i7 Intel Core processor
- 6GB GDDR5 Graphics
- USB-C connectivity

Instructor Laptop Specifications

- 383mm W x 260mm D x 27mm H
- i7 Intel Core processor
- 6GB GDDR5 Graphics
- USB-C connectivity for Rig Floor Monitor Graphics

Rig Floor Monitor Specifications

- 379mm W x 8mm D x 236mm H
- Resolution: 1366 x 768
- Brightness: 200 cd/m

Network Specifications

- IPv4 and IPv6 Support
- 1 x 10/100/1G Ethernet

Typical Operating Voltage/Power

- 240W, 100-240V
- Auto Sensing Power Supply

Warranty

- One Year standard warranty
- Maintenance contracts available annually or on three-year commitments

Environmental Specification

- Operating temperature: 0 to 40° C
- Operating humidity: 15 to 80%
- Maximum altitude: 3,000m

Shipping Dimensions

- 535mm x 640mm x 305mm, 23.8kg

Software Features

Silver Package Includes

- Onshore OR Offshore Environments
- Equipment includes: Top drive, slips, stabbing valves, float
- UI Control: Mud Pump, LVHP Pump
- Joystick Control: Drawworks, Remote Choke
- Instrumentation: mud system, pit volume totalizer, well data, rig data
- Well Control: BOP, standpipe manifold, choke manifold, remote choke panel

- Equipment Incidents: Choke washout, choke plug, pump #1, pump #2
- Circulation Incidents: high density, low density, sloughing, bit balling
- Drillstring Incidents: Bit plugged, bit washout
- Equipment Bypass: Load mouseholes, add stand to drillstring, remove stand from drillstring, remove dropped pipe, add stabbing valve, remove stabbing valve, make up top drive to drillstring, break out top drive to drillstring

- Formation Incidents: Gas kick, liquid kick, formation fracture, blowout
- Blowout Preventer Incidents: Upper annular, lower annular, upper rams, blind rams, middle rams, lower rams.

Options

- Stuck Pipe Incidents: stuck pipe-down, pipe windup, key sear, stuck pipe-up, mud motor stall, pipe twist off
- Additional drilling environment, Onshore or Offshore

About Endeavor

Endeavor helps organizations to revolutionize their workplace training to promote safe practices and improve competency in the critical oil and gas industry. Since inception, Endeavor has developed state-of-the-art software tools that not only improve operator competency, but also reduce environmental disruption, making operating more efficient and cost-effective. Endeavor's goal is to engage with companies to integrate policies, procedures and best practices in an interactive delivery model to promote ongoing learning and knowledge retention.

