

EVOLUTION TIMELINE

Continuous development from prototype to integrated 720° simulator

2016



2017



2018

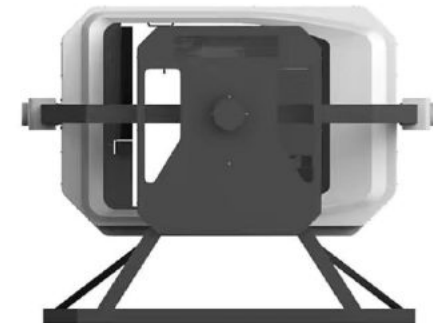
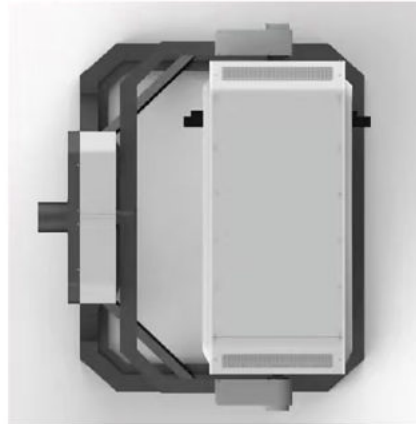
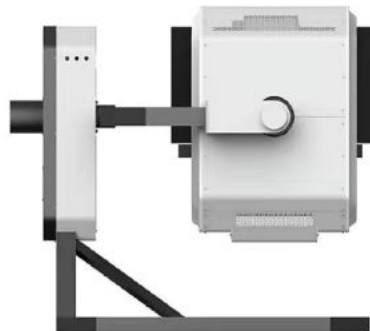
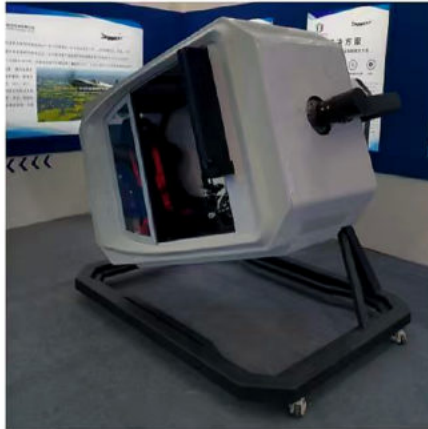


2019



PRODUCT OVERVIEW

Integrated dual-axis motion platform with enclosed cockpit

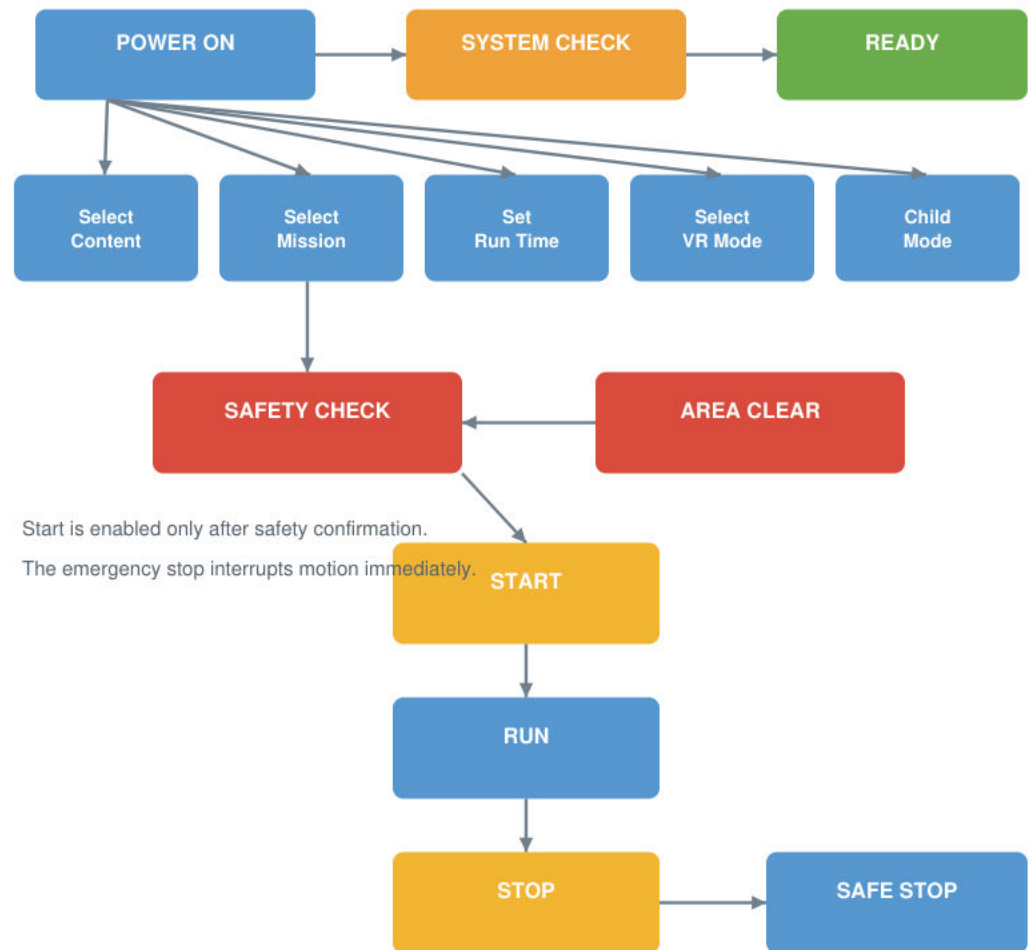


CONTROLLER OVERVIEW

Centralized configuration, safety checks and motion control



OPERATION FLOW



SYSTEM ARCHITECTURE

Five coordinated subsystems deliver an immersive flight experience

Flight Simulation Software

Professional flight simulation software supports commercial and entertainment titles, including Microsoft Flight Simulator and combat-flight applications.

Visuals & Audio

The simulator provides an immersive visual and acoustic environment. Images are rendered on the display, with audio delivered through multi-channel speakers.

Controller

The central controller manages content and mission selection, run time, motion mode, display mode, status monitoring, start and stop functions.

Motion Control

A closed-loop motion system consisting of the drive, actuator and motion controller reproduces aircraft attitude in real time.

Mechanical Structure

The integrated frame defines the simulator form and supports customized interior equipment together with the installation platform.

PRODUCT ADVANTAGES

Professional performance, flexible configuration and easy ownership

PROFESSIONAL

- Professional flight simulation software
- Realistic motion precisely reproduces aircraft attitude
- High-fidelity visuals
- Immersive audio

ADVANCED

- World-leading flight simulation software
- Premium German motion actuators
- Proprietary motion controller
- System response time below 10 ms

VERSATILE

- Compatible with multiple simulation platforms
- Wide selection of missions and environments
- Optional cockpit equipment
- Aircraft and course customization
- Single-player, AI and online combat

EASY O&M

- Tablet-based controller with an intuitive interface
- Integrated, plug-and-play system
- Built-in casters for convenient relocation
- Long-life design with no special maintenance

TECHNICAL SPECIFICATIONS

720° dual-axis motion flight simulator

ITEM	SPECIFICATION
Overall Length	2.2 m
Overall Width	1.7 m
Overall Height	1.8 m
Rated Power	≤ 3.0 kW
Pitch Range	360°
Roll Range	360°
Pitch Angular Speed	±100°/s
Roll Angular Speed	±120°/s
Pitch Angular Acceleration	≥ ±580°/s ²
Roll Angular Acceleration	≥ ±700°/s ²
Maximum Payload	120 kg
Loaded Roll Acceleration Time	≤ 300 ms
Loaded Pitch Acceleration Time	≤ 400 ms
System Response Delay	≤ 120 ms
Service Life	≥ 8 years
MTBF	≥ 150 h
MTTR	< 2 h