



FlightPod Open

Open-cockpit general aviation training platform



ONE PLATFORM, MULTIPLE MISSIONS

FlightPod Open is a modular, two-seat simulator platform for general aviation procedural training. Its open architecture combines an instrument panel, two seats and a compact support structure without the full cockpit enclosure of FlightPod GA. The arrangement offers accessible entry, unobstructed instructor observation and flexible integration with the visual system selected for the training task.

The standard configuration combines Honeycomb flight controls with a reconfigurable touchscreen instrument panel. Aircraft-specific side panels, centre consoles and alternative linked flight controls allow the same platform to support different aircraft and training objectives without committing to a fixed replica.

Key capabilities

- Open two-seat layout without a cockpit enclosure
- Honeycomb Alpha pilot yoke, Alpha Lite co-pilot yoke and Bravo throttle as standard
- Reconfigurable touchscreen instrument panel for multiple avionics layouts
- Optional aircraft-specific side panels and centre consoles
- Optional mechanically linked dual controls, MOZA controls and helicopter configurations
- Modular platform designed for procedural practice, instructor access and upgrades

Final equipment, software licensing, visuals and performance are defined in the project quotation and Statement of Work.



Standard FlightPod Open configuration

The following defines the proposed standard delivery. Optional items are listed separately.

System area	Standard configuration
Cockpit	Open support structure with instrument panel and two seats; no cockpit enclosure
Instrument panel	Reconfigurable touchscreen instrument panel; avionics layouts configured in software
Pilot controls	Honeycomb Alpha yoke, pilot position
Co-pilot controls	Honeycomb Alpha Lite yoke; duplicate switches and buttons are not required
Engine controls	Honeycomb Bravo throttle quadrant with configurable lever arrangements
Control arrangement	Standard Honeycomb controls; mechanically linked dual yokes and pedals are optional
Side panels and consoles	Not included in baseline; aircraft-specific side panels and centre console available
Visual system	Selected for the project; display hardware and channel count to be confirmed
Simulation software	X-Plane and avionics configuration selected according to project scope; licensing confirmed in quotation

Training applications

- Cockpit familiarisation, checklist flows and standard operating procedures
- VFR and IFR procedures, navigation and instrument scan
- Single- and multi-engine procedural practice with suitable aircraft models
- Instructor-led scenario rehearsal, briefing and debriefing



Technical specification

Proposed baseline - subject to final configuration

Cockpit and controls	Specification
Product name	FlightPod Open
Platform type	Modular open-cockpit procedural training simulator
Enclosure	None; open instrument panel and two-seat arrangement
Crew positions	2
Primary flight controls	Honeycomb Alpha yoke (pilot); Honeycomb Alpha Lite yoke (co-pilot); Logitech rudder pedals
Engine controls	Honeycomb Bravo throttle quadrant
Linked controls	Optional dual-linked yokes or sticks and rudder pedals
MOZA controls	Optional dual-linked MOZA yokes or sticks; configuration subject to integration
Helicopter controls	Optional helicopter configuration; project-specific specification
Instrument panel	Reconfigurable touchscreen instrument panel
Avionics replicas	Optional emulated Garmin G1000 replica hardware
Aircraft-specific configuration	Optional Diamond DA40/DA42 configuration and associated control/panel adaptations

Visual system	Specification
Image generators	1 in representative baseline; 3 for native independent 4K channels
Display channels	3
Displays	3 x 65-inch 4K QLED, 120 Hz game mode in representative baseline
Rendered resolution	HD 1080p baseline; native 4K optional
Horizontal field of view	Approximately 150 degrees in representative configuration
Vertical field of view	Approximately 70 degrees in representative configuration
Alternative displays	Curved screen, multi-projector system, spherical dome or LED wall



Software, audio and support

Representative baseline - subject to final configuration

Software	Specification
Main simulation	X-Plane 12 Pro
Aircraft models	X-Plane aircraft or project-specific aircraft model
Performance configuration	Generic class performance or custom aircraft dynamics
Avionics	Hardware and software selected for the required panel configuration
Haptics software	SimHaptic by rkApps
Support access	TightVNC or equivalent remote desktop solution
Audio routing	Four-channel hardware mixer/audio interface with software routing as required

Audio, instructor and support	Specification
Cockpit audio	2.1 speaker and subwoofer system for engine and environmental sound
Communications audio	Four-channel mixer/audio interface for ATC, intercom and instructor routing
Headsets	2 wired aviation-style headsets with microphones and push-to-talk control
Tactile feedback	2 seat-mounted tactile transducers with digital amplification
Instructor functions	Scenario control and session playback through the simulation platform
Instructor hardware	External display and in-cockpit tablet available according to configuration
Support	Remote software diagnostics, operator training and project-specific spare-parts provision



Configuration options

FlightPod Open can be tailored to aircraft type, training objectives and available space. The following equipment is optional unless explicitly included in the quotation.

Option group	Available configurations
Side panels	Aircraft-specific left and right side panels; optional map pockets on both sides
Centre console	Aircraft-specific centre console between the seats, with selected controls and equipment
Linked flight controls	Mechanically linked dual yokes and rudder pedals; linked sticks where applicable
MOZA controls	Dual-linked MOZA yokes or sticks, subject to the selected interface and integration
Helicopter	Project-specific helicopter control and instrument configurations
Avionics	Emulated Garmin G1000 replica hardware; other touchscreen, analogue or hybrid layouts as specified
Diamond aircraft	DA40/DA42 panel, seating and control adaptations according to agreed scope
Visuals	Displays, projection or alternative visual arrangements selected for the training task
Instructor and feedback	Instructor workstation, recording, communications and haptic seating options
Delivery and support	Assembly, installation, acceptance testing, training and support agreements

Qualification and intended use

FlightPod Open is a configurable procedural training platform. Device qualification or training credit is not implied by the product name or a representative configuration. Any required approval, evidence, evaluation and customer training authorisation must be addressed as a separate project.

For quotation

Please specify the aircraft class, desired controls and avionics, visual system, software licences, instructor facilities and installation requirements. Sim-Mech will define the final configuration, deliverables, lead time and commercial terms.