MOTUSSIM

YSL-CAR-C34-A-5DOF

5DOF Motion Racing Simulator

The YSL-CAR-C34-A-5DOF combines a 34-inch curved screen, physical driving controls and a 5DOF motion platform. Optional Assetto Corsa integration enables motion racing experiences, while driving training remains another application.



Racing game integration is optional. Game software, accounts and licences are not supplied. Images show example configurations.

Display system
34-inch curved display

Vehicle class
Car / passenger vehicle

Gear selection
Automatic transmission

Driving layout
RHD; LHD customisable

Product form
Dynamic · 5DOF

Production lead time
Approx. 2–3 weeks after payment

Racing game integration is optional. Configuration, setup guidance and fees are confirmed in the order. Customers supply their own game, personal account and licence.

Watch the racing demonstration ↗

Optional service · Not standard equipment

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Which racing game does this simulator support?

Assetto Corsa integration is available for static and motion equipment. Confirm the specific model, game version and configuration scope before ordering.

This page demonstrates racing game integration with Assetto Corsa. Integration work for other racing games is ongoing. Please contact us to confirm support and available configurations for a specific game.

What does the racing game integration service include?

Configuration and remote setup guidance can be provided. Racing game integration is not included as standard; service scope, arrangements and fees are defined in the confirmed quote and order.

Are the game and account included with the simulator?

The game is not supplied with the equipment. Customers must use their own personal gaming-platform account to purchase (if required), download and install it. Game software, accounts and licences are not included in this integration service.

Watch the racing demonstration ↗

Standard configuration

Automatic controls with a 5DOF platform.

Right-hand-drive cockpit and adjustable seat	Standard equipment × 1
Steering system	Standard equipment × 1
Pedal assembly (brake and accelerator used for automatic training)	Standard equipment × 1
Automatic gear selector	Standard equipment × 1
34-inch curved visual display	Standard equipment × 1
Simulation computer	Standard equipment × 1
Driving simulation software	Standard equipment × 1
Upper 3DOF platform	Standard equipment × 1 set
Lower two-axis platform	Standard equipment × 1 set

Optional configurations
Left-hand drive, instruments, instructor workstation and VR can be configured by project. Standard equipment includes an upper 3DOF platform and lower two-axis platform, combining five degrees of freedom.

This simulator can be adapted for racing games. Racing game integration is available as an optional feature. Racing game option ↓

Two platform levels, five degrees of freedom

The upper 3DOF platform supports the cockpit; the lower two-axis platform adds longitudinal travel and yaw, forming a five-axis, five-degree-of-freedom driving system.

Upper level · 3DOF

Heave (vertical motion), pitch and roll.

Lower level · two axes

Longitudinal travel (forward / backward) and yaw rotation.

TECHNICAL DATA

YSL-CAR-C34-A-5DOF — Specifications and configuration

Standard specifications Default delivery scope for this model	
Vehicle class	Racing experience (optional game integration) / passenger-car driving training
Product form	Static ✓ **Dynamic** **Static:**fixed base without motion feedback.**Dynamic:**A motion platform provides attitude and motion feedback; this model uses 5DOF.
Display system	34-inch curved display
Standard colour	Black + white as photographed; other colours can be customised and confirmed with the order
Overall dimensions	Drawing envelope reference: length 1651.2 × width 1300 mm; top of display 1466.4 mm Tolerance: ±10 mm. Base length 1600 mm. Height is measured to the top of the display.
Net equipment weight	Approx. 285 kg
Packing dimensions / gross weight	Wooden crate: 1800 × 1400 × 1520 mm (L × W × H); gross weight approx. 450 kg; one crate
Power supply and maximum consumption	Standard input: AC 220 V (±10%), 50 Hz; maximum consumption 4.5 kW including upper 3DOF and lower two-axis platforms AC 110 V is available by project; voltage, frequency and final configuration are confirmed in the order specification.
Computer configuration	Intel Core i5-6500; Gigabyte H110M-S2PH; GTX 1660 6 GB; 8 GB RAM; 128 GB SSD Reference configuration. Brands or models may change with availability; replacements will provide equivalent or better performance, subject to the final order specification.
Pre-installed software language	One software interface language is preinstalled: English, Arabic, Spanish, Romanian or Ukrainian. Select the language at order confirmation. Other software interface languages can be customised on request; scope, lead time and cost are confirmed for each project.
Steering force feedback	DC motor force feedback as standard; servo motor force feedback optional

Steering wheel rotation	From centre: 540° left and 540° right (1.5 turns each); total rotation 1080°
Gear control	Automatic transmission Automatic transmission is standard; manual transmission can be requested. Confirm the gear configuration with sales when ordering.
Physical controls	Car steering wheel, pedal assembly, automatic selector, parking brake, ignition and combination switches Automatic training uses the brake and accelerator. Confirm the physical pedal assembly with the order.
Operating environment	0–35 °C; 20%–80% RH, non-condensing
5DOF motion specifications **Upper 3DOF + lower two axes**	
Payload	100 kg
Heave travel / speed	Upper heave: ±50 mm / 250 mm/s
Pitch angle / speed	Upper pitch: ±5° / 10°/s
Roll angle / speed	Upper roll: ±5° / 10°/s
Motion drive	Upper servo-driven electric actuators provide heave, pitch and roll. Lower electric actuators provide longitudinal travel and yaw.
Longitudinal travel / speed	Lower longitudinal travel: ±70 mm / 250 mm/s
Yaw angle / speed	Lower yaw: ±7° / 10°/s
Optional extensions **Not included as standard; confirmed by project**	
Servo motor steering force feedback Optional	Optional servo motor steering force feedback; the standard configuration uses a DC motor
VR headset Optional	VR headset and display solutions available by project; models, software compatibility and scope are confirmed for the application
Instructor workstation Optional	Instructor workstation available by project; hardware, management functions and terminal capacity are confirmed for each order
Software customisation Optional	Software customisation available; features, lead time and cost are agreed for each project
Racing game integration service Optional	Optional Assetto Corsa integration and remote setup guidance; game software, accounts and licences excluded. Scope and fees are confirmed in the order.

Other application: driving training

The road scenarios, training exercises and scoring below belong to the driving training software, not to Assetto Corsa. Racing integration and driving training software are confirmed separately.

LHD / RHD

Matched left- / right-hand-drive hardware and software

The cockpit can be configured for left- or right-hand drive. The software viewpoint, instruments and control logic follow the selected layout to match physical and virtual driving positions.

- Left- or right-hand-drive cockpit
- Viewpoint matched to the hardware
- Coordinated instruments and control logic

Basic control training

Steering, gears, accelerator, brake, parking brake and lights practice.

Manoeuvring exercises

Automatic-compatible exercises include reverse and parallel parking, curves, right-angle turns, hill starts, narrow gates, manholes, uneven roads and single- or double-sided bridge exercises.

Road and weather environments

Town, city, motorway, mountain and gravel roads; night, rain, snow, fog and day/night changes, with corresponding weather effects.

Hazard and emergency training

Scenarios include alcohol and drug impairment, fatigue, speeding, brake failure, unexpected events, noise distraction, traffic direction and yielding to ambulances.

Scoring and training results

Detect red-light violations, lane crossings, collisions, speeding, unfastened belts, unreleased parking brakes and harsh acceleration or braking; record exercises, distance, fuel use, scores and errors.

Result storage and printing

Results can be saved locally and printed. Local file formats depend on the delivered software version.

Driver assistance

Single- or triple-screen support, dual mirrors on one screen, live pedal and gear indicators, mini-map and point-to-point navigation and route checks.

Languages and system extensions

One interface language is preinstalled: English, Arabic, Spanish, Romanian or Ukrainian, selected when ordering. The 5DOF platform is standard; VR and an instructor workstation are optional. Other software interface languages can be customised on request; scope, lead time and cost are confirmed for each project.

This page shows only a selection of software features and interfaces. Features may be added or modified in future software versions. The delivered software version and feature set are subject to the order confirmation.

Screens show shared driving software. Gear and pedal indicators and exercises for automatic transmission depend on the delivered version.

OPTIONAL SYSTEM

Instructor workstation interface

Monitor terminal status, assign tasks to one or several simulators and review learner results and errors. Functions and terminal capacity are confirmed by project.

Vehicle types, languages, display arrangements and extensions are confirmed with the order. Custom features, timescales and fees depend on project requirements.

DELIVERY & SUPPORT

Production, export packing and remote support.

Production lead time

Usually about 2–3 weeks after payment, subject to the confirmed order and configuration.

Export packing

One export wooden crate per unit; see the specifications for packed dimensions and gross weight.

Factory testing

Software, hardware and overall operation are checked before dispatch.

Installation and training

A user manual is supplied. Remote installation guidance and operator training can be provided when required.

Warranty and upgrades

One-year hardware warranty. Standard new software features may be upgraded free of charge; confirm applicable conditions with sales.

Remote diagnostics

Remote troubleshooting assistance is available; overseas on-site service is not currently provided.

Racing game integration is a separately selected service. Third-party games, personal accounts and licences are not supplied with the equipment and must be arranged by the customer.

Request racing configuration and pricing

Racing game integration is optional. Configuration, setup guidance and fees are confirmed in the order. Customers supply their own game, personal account and licence.

Request racing configuration and pricing ↗

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