

FORMULA V4S



EUROPEAN LEADER OF ADVANCED STEERING WHEELS FOR MOTORSPORT

For more than 25 years, XAP Technology has been developing advanced instrumented steering wheels for the highest levels of motorsport. As a long-standing partner of manufacturers, teams and championship organizers, XAP designs systems where reliability, precision and long-term support are key requirements.

XAP technologies are used across F2, F3, Formula E, endurance racing and single-seaters (Alpine, 2020 LMP3) in environments defined by extreme vibration, temperature variations and real-time data constraints. This experience has shaped a development approach focused on robustness, electronic integrity and continuous evolution of onboard systems.

The Formula V4S represents a breakthrough in driver-interface design. It is intended for teams requiring a steering wheel capable of evolving, processing large amounts of data and integrating seamlessly into modern electrical architectures. The Formula V4S stands as XAP's most advanced steering platform: intelligent, robust, evolutive and engineered for the most demanding racing categories.

A NEW GENERATION OF INTELLIGENT STEERING WHEEL

FIRST COMPETITION STEERING WHEEL WITH DUAL INDEPENDENT SCREENS

High-precision central rotary switch (up to 18 positions) with integrated display, providing fast, reliable and repeatable control of vehicle modes and parameters.

ADVANCED ELECTRONIC ARCHITECTURE

High-performance electronic platform based on two H7 microcontrollers and 1 processor, delivering increased processing power and system redundancy.

HIGH-CONTRAST MAIN SCREEN:

New-generation main display offering enhanced contrast and superior readability under all lighting and racing conditions.

PUSH BUTTONS:

12 illuminated push button.

ROTARY SWITCHES:

4 rotary switches with 10 positions, using non-contact Hall-effect technology for long-term durability and resistance to mechanical vibrations.

100% FORGED CARBON HOUSING:

Front face, rear face and handles manufactured in 100% forged carbon, fully designed and forged in-house by XAP.

INTELLIGENT COMPUTING LOAD DISTRIBUTION:

Platform designed to distribute computing tasks efficiently, enabling advanced calculations, embedded virtual channels and future software scalability.

CUSTOMISATION OF THE FRONT FACE:

The buttons can be engraved, a batch of colours are available on request. The entire steering can be customized.

ECU COMPATIBILITY:

Universal compatibility with market-leading engine ECUs: DTA, Marelli, MoTeC, Cosworth, ...

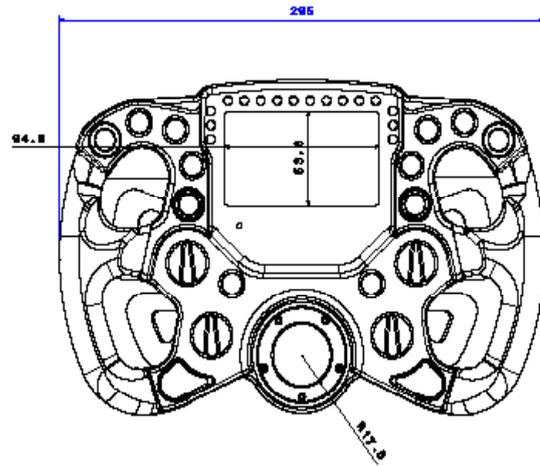
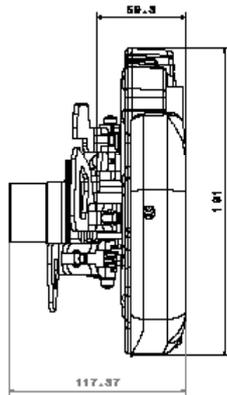
Hall effect technology for excellent mechanical vibration.





► STEERING WHEELS: **FORMULA V4S STEERING WHEEL**

DIMENSIONS



TECHNICAL SPECIFICATIONS

Displays	<ul style="list-style-type: none"> • 4.3' TFT – sunlight readable – 480x272px • 1.28' TFT – sunlight readable 240 x 240px Up to 30 fully configurable display pages
Paddles	6 hall-effect paddles
Switches	<ul style="list-style-type: none"> • 12 illuminated push buttons • 4 rotary switches 10 positions • 18-position instrumented central rotary switch with integrated display
RPM/Alert LEDs	16 fully configurable RGB LEDs
Electronic architecture	<ul style="list-style-type: none"> x2 H7 microcontrollers x1 processor
Computing power	<ul style="list-style-type: none"> • Advances calculations • Maths channels • Virtual channels
Mechanical structure	In-house forged carbon housing & handles
Connector	Central or remote connector
Quick release compatibility	Compatible with most quick release systems available on the market
Weight	1.7 kg
Temperature range	-20°C to 80°C

REFERENCES

PF0842	FOV4S – STANDARD VERSION
PF0982	FOV4S – SIMULATOR VERSION

COMMUNICATION & INTERFACE

Supply voltage	8 to 60V
CAN communication	2.0b Terminated or not FD ready
CAN Baudrate	128k to 1M
Protocole CAN	Selectable
USB	1 full speed
DBC management	DBC import supported
ECU compatibility	Compatible with all engine ECUs via CAN & DBC
Marshalling	Supported
Screen configuration	Full configuration of screens and display pages
Alerts	Configurable alert banners and warnings

AVAILABLE OPTIONS

Data acquisition	Integrated data acquisition in .csv format
SimRacing	HID license for simulator compatibility
Software license	Dash Editor configuration software license
Custom configuration	Pre-configured or project-specific software configuration



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