

Proteus-IV

HD + SD Video Overlay



The Proteus is a high-performance stand-alone High-Definition (HD) and Standard-Definition (SD) video overlay system. It overlays crisp text, graphics and telemetry data on live video. From overlaying GPS informations and custom titles to more advanced graphic widgets, users can easily customize Proteus with external keyboard or simple RS232 commands.

Application

- Aviation
- Subsea ROV's
- Medical
- Scientific
- Industrial automation
- Security & surveillance
- Many more.....

Plug & Play Devices

- Any NMEA 0183 device
- Any NMEA 2000 device
- GPS modems
- CSV sentences
- VectorNav INS
- General Dynamic Cineflex
- Smartmicro Micro Radar Altimeter
- APOS for HIPAP system HPR400 format
- WinFrog Navigation
- Any quadrature encoders
- Any Analog voltage or 4-20ma sensor
- IRIG-00x encoder
- Many more.....

Built-in Apps

- Aircraft situation awareness
- ROV situation awareness
- Video marker measurement¹
- Dynamic¹ or static crosshair/Reticle
- Geotagging with Google Earth interface
- Count up/down timer (± 10 nsec)
- Progress bars
- Many more.....

Features

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| <ul style="list-style-type: none"> • Stand-alone operation i.e. no PC required • Fast boot ~500msec, compact & light weight • Low power. Input voltage 6-42V, 6 watts • Video input to output latency < 290 nsec • OSD resolution up to 1920 x 1080 • Per pixel alpha blending (PNG images) • 1 x HD (HD-SDI or HDMI) video input • 2 x SD (1 x Composite + 1 x S-video) video inputs • Cross converts SDI ↔HDMI↔S-video↔Composite • 8 x analog inputs² ($\pm 10v$, $\pm 5v$, $\pm 2.5v$, $5v$, $10v$) • Easily convert analog inputs to speed, depth, pressure... • 4 x quadrature inputs² • Easily convert quadrature count to distance, speed... | <ul style="list-style-type: none"> • 8 x digital inputs² • Read & write HD-SDI Timecode (ATC) • Insert time (IRIG, GPS, RTC) into video signal Timecode (ATC) • 3 x RS232 ports² • 1 x RS488 • 1 x CAN • 1 x USB port (enumerates as COM port) • 802.11 wireless communication interface • Easy to configure with an external keyboard • Easy to configure via 50+ RS232 based commands • Built-in real time clock (RTC) • 16 user selectable & customizable fonts • Format & position data anywhere on screen |
|--|---|

Video Formats

1080i @	50 / 60 Hz
1080p @	23.98 / 24 / 25 / 29.97 / 30 Hz
1080PsF @	23.98 / 24 Hz
720p @	50 / 59.94 / 60 Hz
NTSC 480i @	60 Hz
PAL 576i @	50 Hz

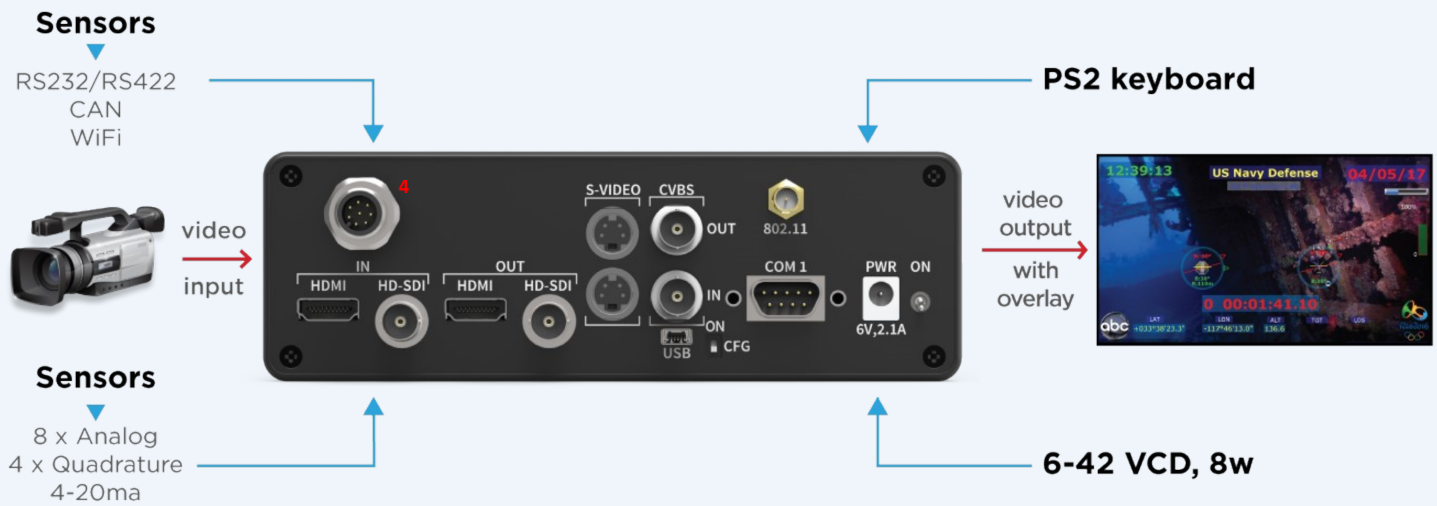
Other

Operating temperature	-40°C to +60°C
Power	6-42VDC, 6W
Power up time	~ 500 msec
Dimensions	6.5" x 4.5" x 1.25"
Weight	1.61 (lb.)
Warrantee ³	2 Year

Price

Proteus-IV	\$1,695.00
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Typical Interconnect Diagram



¹ Control via external Joystick, Keyboard, RS232 commands, Quadrature encoders

² Interface is optically isolated (3KVDC isolation capability). Signals are internal and accessible via Terminal Blocks

³ Warranty does not cover any product, which has been subject to neglect, unreasonable use, accident, and violation of operating instructions

⁴ Circular lock-in connector and its companion external cable are optional. It is required for access to the internal signals i.e. quadrature inputs, analog inputs, CAN, RS232 and etc.

Proteus does not support HDMI video with HDCP