

PROTEUS-ESSENTIAL

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 information and custom titles to more advanced graphic widgets, users can easily customize Proteus with external keyboard or simple RS232 commands.

Application

- Simple Text & logo inserter
- Subsea ROV Telemetry
- Aviation Telemetry
- Scientific
- Industrial automation
- Medical
- Security & surveillance
- POS
- Many more.....

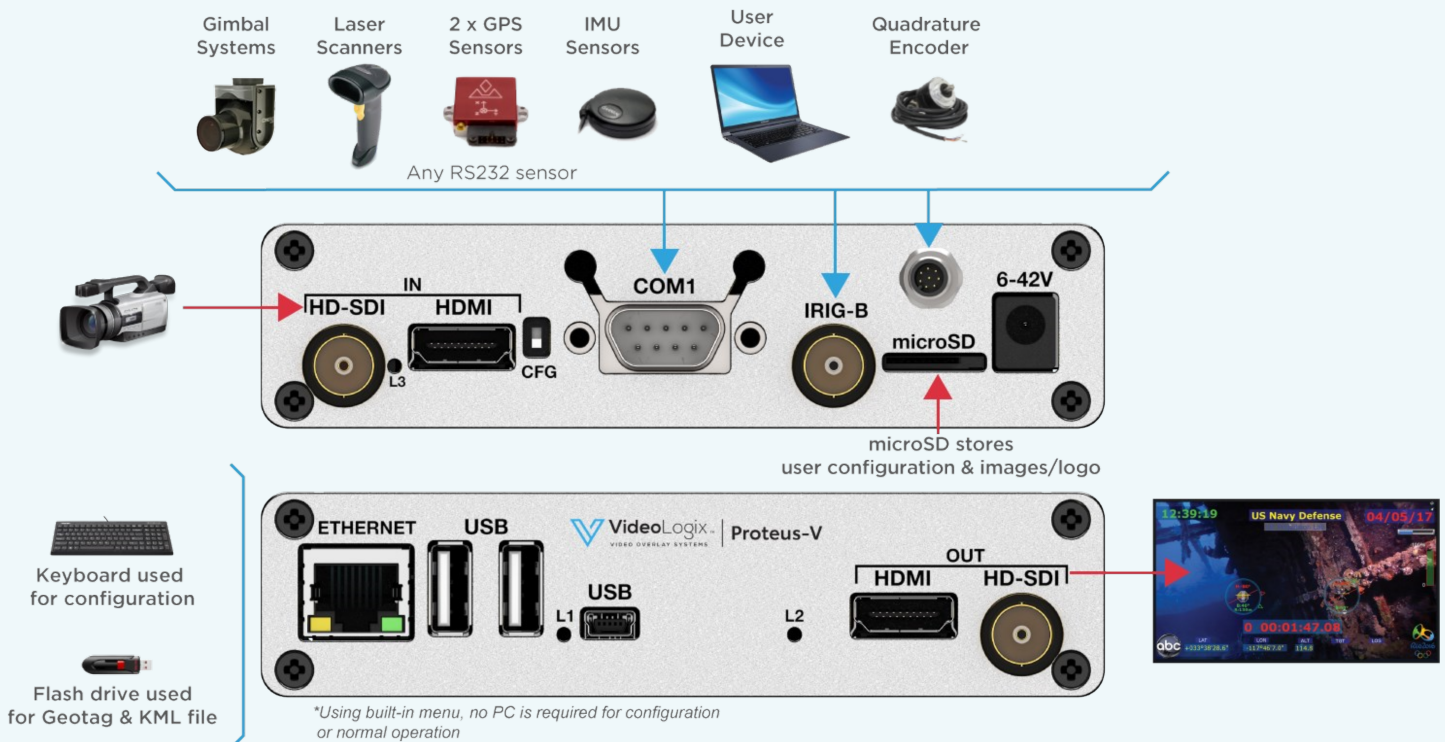
Plug & Play Devices

- Any NMEA 0183 device
- GPS modems
- CSV sentences
- VectorNav INS
- General Dynamic Cineflex
- Smartmicro Micro Radar Altimeter
- WinFrog Navigation
- Any quadrature encoders
- IRIG-00x encoder
- Many more.....

Built-in Apps

- Aircraft situation awareness
- ROV situation awareness
- Video marker measurement
- Dynamic crosshair/Reticle
- Geotagging with Google Earth interface
- Count up/down timer
- Progress bars, sliders
- Many more.....

Typical Interconnect Diagram



Proteus does not support HDMI video with HDCP

General Features

- Full High Definition Video Overlay
- 1920 x 1080 OSD overlay resolution
- Stand-alone operation i.e. no PC required
- Simple user interface for configuring screen via USB keyboard
- Overlay data from any GPS modem (\$GPRMC, \$GPGGA, \$PTSAG, etc.)
- Overlay data from any NMEA sensor (\$GPWPL, \$SDDBT, \$WIMTW, \$WIMWV, etc.)
- Overlay variables from any CSV data stream
- Overlay texts such as user titles, time & date (GPS, IRIG, SNTP), latitude, longitude, etc.
- Overlay PNG & JPG images
- Generate¹ KML file with multiple user defined place markers
- Built-in eCompass & absolute orientation sensor
- Over 30 drawing commands through RS232, Ethernet, USB
- Battery backed up real time clock (RTC)
- Per pixel alpha blending

Video

- HD-SDI input
- HD-SDI output
- HDMI input
- HDMI output
- Composite input (NTSC/PAL)
- 1080i @ 50, 59.94, 60 Hz
- 720p @ 50, 59.94, 60 Hz
- 1080p @ 23.94, 24, 25, 30 fps
- Superimpose Composite input over HD video input (PIP)
- Fast video input to output delay i.e. 0.3 μ s

Communication ports

- 2 x RS232
- 1 x CAN
- 1 x USB2.0 Device
- 2 x USB2.0 HOST
- 1 x Ethernet 10/100
- 1 x IRIG-B

Additional Features

- Analog Inputs: Convert analog inputs to speed, depth, pressure...
- Quadrature Inputs: Convert count to distance, speed...
- Supported Devices: GD Cineflex, Bar code scanners, VectorNav GPS/INS, Smartmicro radar
- Apps: ROV situation awareness, Aerial situation awareness, XY Measurements, Reticle, up/down Count/timer
- Graphics Widgets: Slider, Compass
- Generate¹ KML for Google Earth: Geotag, Georeference

Others

- Input 6-42VDC, 4W via 2.1mm x 5.5mm power jack
- Box Dimensions (mm) 125.30 x 105.23 x 30.51. Weight 1 lbs.
- Operating Temp: 0° C to 65° C, Humidity 10 to 90% RH Non-Condensing
- Storage Temp: -10° C to 80° C, Humidity 10 to 90% RH

Included

- USB Keyboard
- 100-240V/50-60Hz/6V/2.1A external wall adaptor
- Mini USB cable
- 2GB microSD