

THE SIGNALS DISTRIBUTION UNIT (SDU)

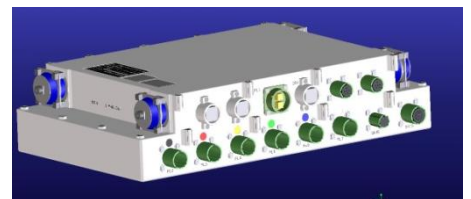
The Brimar SDU forms the heart of a local situational awareness system (LSAS) for military vehicles, switching video from up to 27 sources amongst up to 4 fully independent displays. Combined with Brimar picture-in-picture displays the SDU offers the optimum combination of flexibility and performance, with low latency performance suitable for weapons station control or drivers vision applications. In addition to video switching, the SDU also distributes power to all system elements (displays, sensors, ancillary systems) and serial communications via RS422 and CANBus.

APPLICATIONS CAN INCLUDE:

- Local Situational Awareness (LSAS)
- Drivers Vision Enhancement (DVE)
- Multiple systems integration (Remote weapons station, UAV imagery, Battle Management etc)

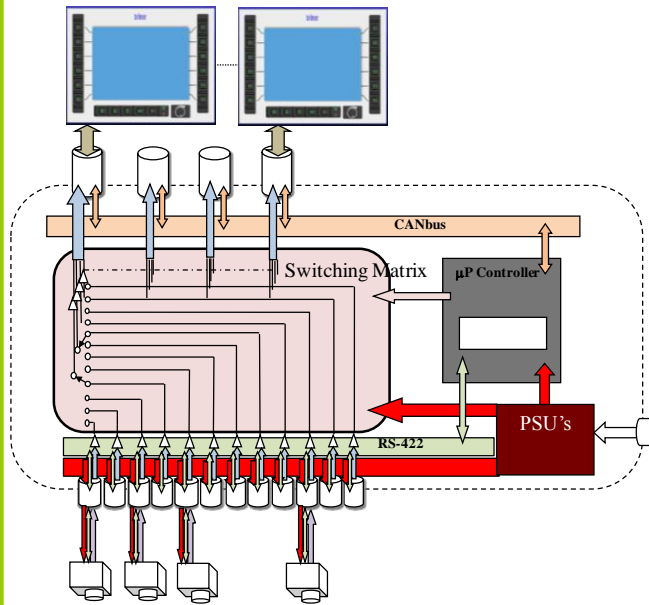
TECHNOLOGY

- Low noise multiplexer circuitry with no crosstalk between video channels
- Programmable controller to support serial control of sensors and subsystems
- Two variants available, one with integrated power switch (pictured above) or a lower profile version for vehicles tighter space constraints (pictured right)

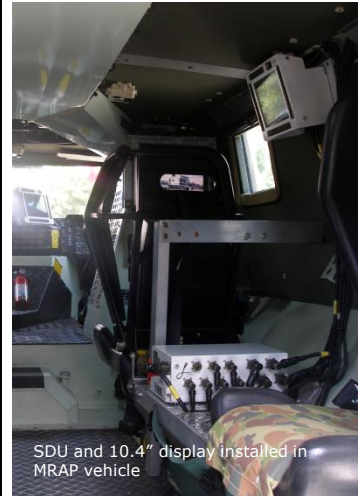


TECHNICAL SPECIFICATION

BLOCK DIAGRAM



FOR MORE
INFORMATION
ON THE BRIMAR
SDU



ENVIRONMENT

Operating Temperature: -20°C to +55°C
Storage Temperature: -46°C to +70°C

Designed for:

- EMC: DEF-STAN 59-41 Land Class B or equivalent.
- Low Pressure operation and air transport.
- Sealed against driving rain and dust/sand.
- Protected against nuclear, chemical & biological agents and fungal growth.
- Resistant to salt corrosion, fluid contamination, humidity, shock, and vibration.
- Boot kick and drop proof.

MTBF: >15,000hrs

PHYSICAL CHARACTERISTICS

Dimensions of low profile SDU
Length: 443mm
Width: 297mm
Depth: 97mm
Weight: < 10Kg

INTERFACE & VIDEO OPTIONS

Power supply: Vehicle 28V DEF-STAN 61-5
Input video: 27 channels, NTSC or RS170, PAL or CCIR standards
RS422: 15 channels, up to 4 active at once
CANBus: Control between displays and SDU via CAN plus additional CAN interface for external interfaces.
I/O: 8 28V filtered programmable control lines

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