



Driver Thermal Imaging Sensor Unit

Part Number: 676400100

Features

- Thermal Imager
- Day Camera
- External synchronisation capability
- Automatic heating system
- Upgrade ability
- BIT

The Driver Thermal Imaging Sensor Unit (DTISU) has been designed to provide Armoured Fighting Vehicle (AFV) crews with a real-time, 24-hour, relaxed vision capability whilst under armour.

The unit can be used as a stand-alone sensor or as part of an integrated Indirect Vision System (IVS). The DTISU contains a thermal imager and a colour CCD sensor, both enclosed in a common armoured housing that is mounted above the vehicle armour.

Specification

- Input Voltage: 28V to Def Stan 61-5 part 6
- Power: 25 W max. (50 W with wiper & heater)
- Operating Temperature Range: -32 to +49 °C
- Storage Temperature Range: -33 to + 71 °C
- Dimensions: 335 x 290 x 158 mm
- Mass: 26 kg
- Operating Environment: Def Stan 00-35 (Tracked Vehicles)
- EMC: Def Stan 59-41 Part 3 Class A

Features – Driver Thermal Imaging Sensor Unit

Thermal Imager

- Un-cooled staring array detector sensitive to IR radiation in the 8 to 14 micron band
- Resolution 512(H) by 256(V), 128 grey scales
- Video output: mono composite 1v p-p into 75 ohms. PAL(I) 625 line, 50Hz (NTSC available)
- Horizontal field of view: 50°
- Depth of field: 5m to Infinity
- Aspect ratio: 2:1

Day Camera

- CCD operating over the range 0.7 – 100,000 lux
- Resolution 752(H) by 582(V) pixels
- Video output: mono composite 1v p-p into 75 ohms. PAL(I) 625 line, 50Hz (NTSC available)
- Horizontal field of view: 64°
- Depth of field: 0.5m to Infinity
- Aspect Ratio: 4:3
- Auto level control, auto iris control, electronic auto gain control

Other Features

- External synchronisation capability
- Automatic heating system with heater inhibit to reduce power requirements
- Upgrade ability for emerging sensor technologies
- BIT



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