

Product description

DV55DSL and SA90DSL



Dual Sensor Lid



The DSL camera is a vehicle camera system composed of a thermal camera, a color TV camera and a protective lid with an integrated lens cleaning mechanism. The color TV image can be fused/blended with the IR picture, which is very useful for situational awareness. The camera is available with two field of views, 55 deg FOV and 90 deg FOV.



1.1 Features and Performance

1.1.1 Thermal Sensor

- Uncooled VOx 640x480 pixel detector
- Spectrum region 7.5-13 μm , LWIR
- DV55DSL: FoV (horizontal) 55°
- SA90DSL: FoV (horizontal) 90°
- Athermalized fix focus from 2 m to infinity
- Auto or manual Non Uniformity Correction (NUC), selectable
- Automatic Gain Control
- Digital Detail Enhancement, on/off selectable
- Polarity white hot or black hot, selectable

1.1.2 CCDTV Color camera

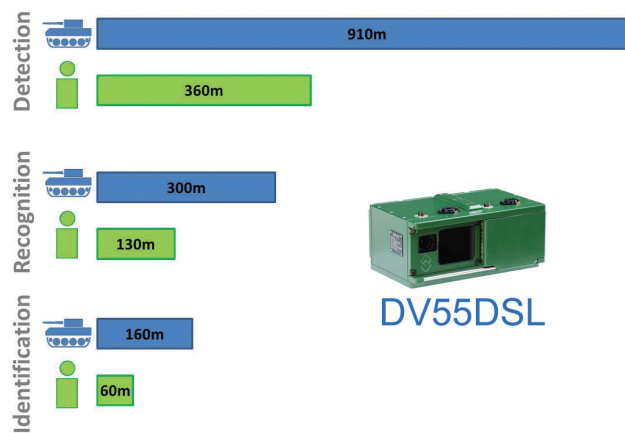
- FoV matched with thermal camera
- Fixed focus from 2 m to infinity
- Automatic Gain Control
- Automatic Contrast/Brightness Control

1.1.3 System features

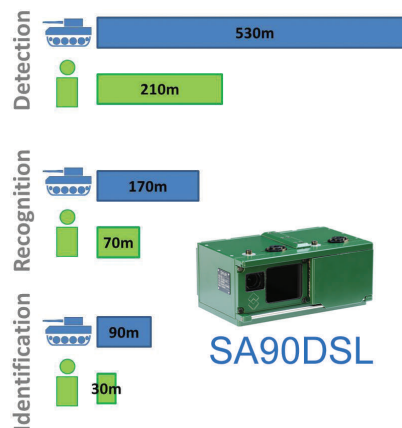
- Blending IR/TV with two blending modes, automatic or manual
- Video out 2xPAL or 2xNTSC. Possible to output any source on any video output and blended on one
- Video latency is less than 65 ms
- Possible to reverse image
- Possible to overlay graphics (factory setting)
- Operating temperature -46°C to +65°C
- Window heaters for operation in cold climate
- Environmentally protected (MIL-STD-810G)
- EMC protected (MIL-STD-461F, Army Ground)
- Input voltage 18-32 VDC (MIL-STD-1275D Normal Operating Mode)
- The camera is reverse polarity protected
- Motorized protective lid with cleaning brush
- Field replaceable front window
- Controllable over a CAN interface
- Short start up time
- Available with connector facing backwards or sideways
- Size (HxWxD): 105x250x150 mm (excluding mounting plate)
- Weight \leq 5.5 kg

1.1.4 Detection, Recognition, Identification ranges

1.1.4.1 DV55DSL



1.1.4.2 SA90DSL





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