

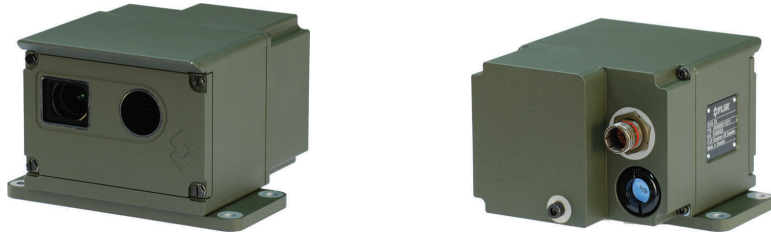
# Product description

## DV55DS and SA90DS



# Dual Sensor

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The DS camera is a vehicle camera system composed of a thermal camera and a color TV camera. 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  $\mu\text{m}$ , LWIR
- DV55DS: FoV (horizontal) 55°
- SA90DS: 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

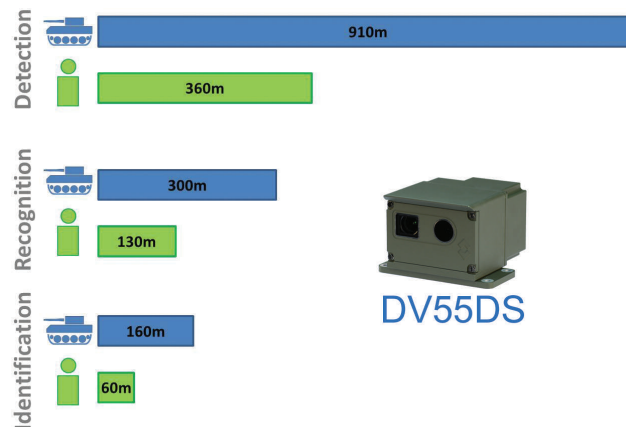
- FoV matched with thermal camera
- Fixed focus from 2 m to infinity
- Automatic Gain Control
- Automatic Contrast/Brightness Control

### 1.1.3 System features

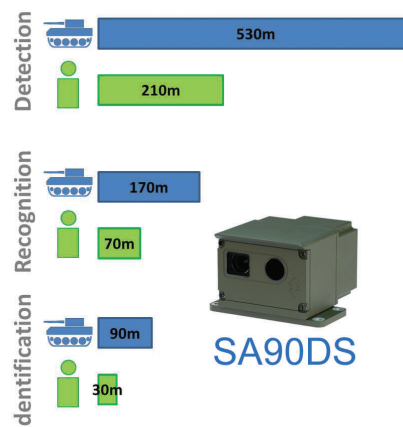
- Blending IR/TV with two blending modes, automatic or manual
- Video out 2xPAL or 2xNTSC. Possible to output any source on any video output and blended on one
- Video latency is less than 65 ms
- Possible to reverse image
- Possible to overlay graphics (factory setting)
- Operating temperature -46°C 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
- Field replaceable front window
- Controllable over a CAN interface
- Short start up time
- Size (HxWxD): 100x130x150 mm (excluding mounting plate)
- Weight ≤ 2.7 kg

### 1.1.4 Detection, Recognition, Identification ranges

#### 1.1.4.1 DV55DS



#### 1.1.4.2 SA90DS





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