



DST CONTROL

THERMAL IMAGER



Features

- Small size and lightweight
- Low power requirements
- Multiple choice of interfaces
- Maximum exportability

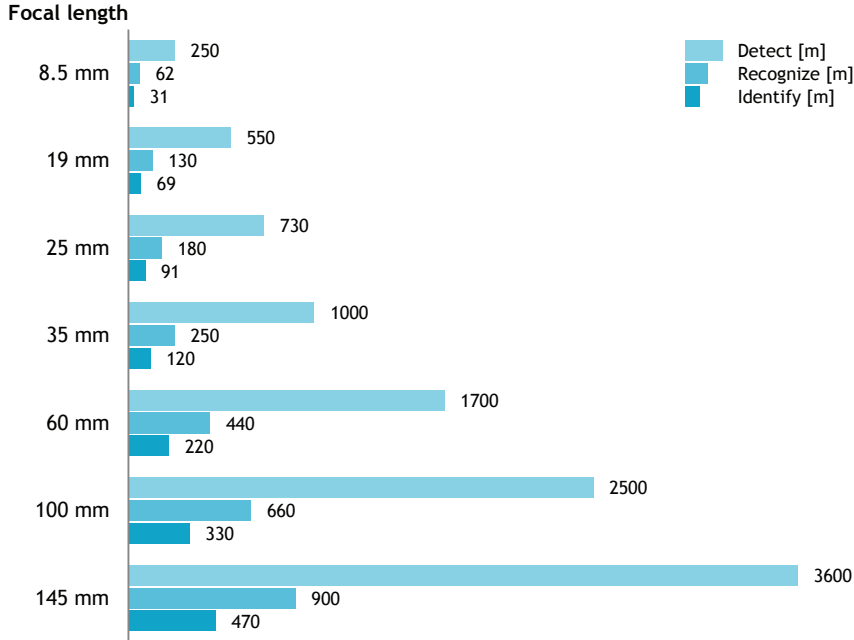
Options

- GigE and USB3 interface
- Fixed or zoom lenses
- Customized housing

SAITIS-2-640

Technical Specification	
Thermal Imager	Uncooled microbolometer LWIR camera (amorphous silicon)
Spectral Band	8-14 μm
Array Resolution	640 x 480 pixels
Pixel Pitch	17 μm
Sensitivity (NETD)	< 50 mK
Frame Rates	9 or 25 or 30 Hz
Power Requirements	1 W (typical), 6 -15 Vdc
Temperature	-40 °C to +60°C operational, -40 °C to 80 °C storage
Vibration	20Hz - 2kHz, 0.1g ² /Hz
Shock	50g half sine for a duration of 10ms
Control Interface	RS-232 (CMOS levels, 115200 baud)
Analog Video Interface	CVBS (PAL or NTSC)
Digital Video Interface	GigE, USB3 or LVDS (16 bit resolution)

Range Chart, Max: 1.8 m x 0.5 m



Lens, Focal Length	8.5 mm	19 mm	25 mm	35 mm	60 mm	100 mm	22/66 mm	18-60 mm	25-145 mm	Thread M25x0.5	Thread M34x0.5
f/#	1.2	1.2	1.2	1.2	1.25	1.5	1.15 / 1.25	1.4	1.4	Lens-less	Lens-less
HFoV [deg]	73.2	32,3	24.6	17.7	10.4	6.2	27.8 / 9.4	33. - 10.4	24.6 - 4.3	-	-
VFoV [deg]	54.4	24.5	18.5	13.3	7.8	4.7	21.0 / 7.1	25.5 - 7.8	18.5 - 3.2	-	-
IFoV [mrad]	2.0	0.90	0.68	0.49	0.28	0.17	0.77 / 0.26	0.94 - 0.28	0.68 - 0.12	-	-
Focus	Manual	Manual	Manual	Manual	Manual	Manual	Motor	Motor	Motor	-	-
Camera + Lens	SAITIS-2-640-OEM										
Weight [g]	88	76	94	131	181	406	300	310	1380	54	56
Dimensions, W x H x L [mm]	42x42x48	42x42x45	42x42x54	43x43x65	61x61x85	74x74x105	80x80x89	74x68x83	127x127x175	42x42x36	42x42x35
Camera + Lens	SAITIS-2-640-AUX / SAITIS-2-640-GIGE / SAITIS-2-640-USB3										
Weight [g]	155/167/156	143/155/144	161/173/162	198/210/199	248/260/249	473/485/474	370/380/370	380/390/380	1450	121/153/122	123/155/124
Lenght (W & H see above) [mm]	72/77/74	69/74/71	78/83/80	88/93/90	108/113/110	128/133/130	112/117/114	106/111/108	196/201/198	61/65/63	60/66/62

DST CONTROL is a supplier of lightweight, high performance gyro-stabilised electro-optical systems with both EO and IR capabilities. And also, small, light-weight long-wave thermal imagers.

DST CONTROL has released a number of advanced inhouse developed products. The OTUS gyro-stabilised electro-optical micro-gimbal is optimized for use in small & medium sized unmanned vehicles and small manned aircrafts. The SAITIS uncooled microbolometer LWIR camera (amorphous silicon, spectral band 8-14 μm) is one of the smallest LWIR available. Both the OTUS gimbals and the SAITIS thermal imagers have maximum exportability (non-ITAR).



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