

TEOPS

ELECTRO-OPTICAL SYSTEMS

OPEN FRAME UNCOOLED LWIR CAMERA



FEATURES

- Design according to Military Standards
- High range performance
- Advance image processing algorithms
- Fast start up time
- Different lens alternatives available

SPECIFICATION	VALUE
ARRAY SPECIFICATIONS	
Array Type	Uncooled Microbolometer
Detector Pitch	12 μm
Spectral Band	8 - 14 μm (LWIR)
Detector Resolution	1280 x 1024
Sensitivity (F/1, 300 K)	< 50 mK (< 40 mK optional)
Pixel Operability	> % 99.5 (% 99.8 optional)
IMAGING SPECIFICATIONS	
Frame Rate	25/30/50/60 Hz
Time-to-image	< 5 sec
Digital Zoom	x1, x2, x3, x4
Noise Cancellation	Adaptive Temporal and Spatial Noise Cancellation
Detail Enhancement	Digital Detail Enhancement
Image Enhancement	Plateau-based Adaptive Histogram Equalization/ Linear/Manual
Contrast Enhancement	Local Contrast Enhancement
Color Palette	Up to 8 different palette
Live Calibration	With Shutter (periodic or externally controllable)
F/#	1.4
Narrow HFOV	5.8°
Wide HFOV	36.3°
POWER REQUIREMENTS	
Power Supply	12 V DC x 2
Average Power Consumption	5 W
Maximum Power Consumption	10 W
INTERFACES	
Communication	UART
Digital Video Output	Ethernet RTSP
ENVIRONMENTAL CONDITIONS	
Operating Temperature	-32 °C ... +70 °C
Storage Temperature	-45 °C ... +85 °C
SIZE AND WEIGHT	
Weight	2 kg
Size	130x145x187 mm