Bird XGA

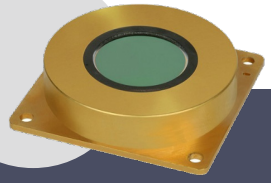
SCD's sophisticated 17µm VOx Microbolometer is an exemplary choice for XGA Long-Wave Infrared (LWIR) systems. Boasting outstanding image quality, exceptionally low Noise Equivalent Temperature Difference (NETD), swift image capture, and a lightweight design, SCD's Microbolometer is distinguished as a premier LWIR sensor in the industry. Designed to meet a diverse array of application needs, it specifically addresses the critical Size, Weight, and Power (SWaP) considerations. With SCD's advanced VOx technology, we offer a versatile and user-friendly thermal imaging solution. Our unwavering commitment to customer support ensures that our clients have access to the best-in-class solutions.

Main Features

- Vanadium Oxide technology
- 17µm pixel pitch
- 1024x768 pixels focal-plane array
- Uncooled operation with TEC
- 4 analog outputs
- Internally computed coarse-NUC
- Adjustable GAIN & Integration time
- Mil-std qualification

Applications

- Long-range surveillance systems
- MWS
- Remote weapon station
- Driver's night-vision systems
- EO/IR tactical payloads
- Long-range flame detection



	FAST	HS High Sensitivity	BB Broad Band
Technology	VOx Microbolometer		
Format	1024 x 768		
Weight	17µm		
Temporal NETD@25°C F#1, 60Hz	<100mK	<36mK /<50mK	<32mK
Spectral response	8µm-12µm	8µm-14µm/8µm-12µm	3µm-14µm
Thermal time constant	7 ms	14ms	14ms
Frame rate	25/30Hz, 50/60Hz, 100Hz		
Operating temperature	-40°C to 71°C		
Storage temperature	-40°C to 85°C		
Video outputs	Analog 2/4 lines		
Power consumption @25°C	750mW-900mW		
FPA stabilization	TEC		
Size	52mm X 52mm X 11mm (excluding pins & vacuum tube)		
Weight	70 gr		
MTTF	> 20 years @25°C vacuum life time (90% confidence)		
Optional proximity electronic available	Includes 4 video ADCs, power stages, TEC driver and shutter control