Mosaic CORE C206SP



TECHNICAL SUMMARY

200 x 150 RESOLUTION

Specifications	Description	
Microbolometer	Uncooled Vanadium Oxide	
Pixel Pitch	12 Microns	
Spectral Response	7.8 - 14 Microns	
Sensor Resolution (Array Format)	200 (h) x 150 (v); 30,000 pixels	
Frame Rate	<9 Hz	
Imaging Range ¹	-40°C to 330°C	
Sensor Sensitivity	65 mK (typical), <100 mK (max) @ 25°C	
Non-Uniformity Correction (NUC)	Automatic NUC (with shutter)	
Video Output Interfaces	USB	
Supply Voltage	3.3V to 5.0V	
Power: Core Only	<50mW	
Power: Core + Interface Board	300mW	
Output Frame Formats		
Supported OS	Linux / Windows SDK	Android SDK
Partially Processed	16-bit corrected or pre AGC	16-bit filtered pre AGC
Colorized Display	ARGB888, RGB565, AYUV, or YUY2	32-bit ARGB post colorization in the Bitmap image
B/W Display	8-bit Greyscale	NA
Tempeature	32-bit floating point or 16-bit fixed point thermography	16-bit fixed point thermography
Optics & Mechanical		
Focal Length	6.6mm	
F-number (focal length/aperture)	f/1.2	
Spatial Resolution (IFOV, center)	1.8	
HFOV ⁴	21°	
VFOV ⁴	15°	
Detection Range ²	543m	
Recognition Range ²	136m	
Identification Range ²	78m	
Distance to Spot Ratio	91:1	
Ingress Protection	IP67	
Core Dimensions (L x W x H)	23 x 20 x 21mm	
Core Weight	12 g	
Focus	Fixed	
Lens Material	Chalcogenide	
Thermography		
Temperature Calibration	Calibrated Output in °C, °F, K	
	The greater of ±5°C or 5% between 5°C to 140°C scene temperatures Typical performance of ±10% between 140°C to 330°C scene temperatures Contact	
Temperature Accuracy ^{1,3}		
	your sales rep for higher temperature accuracy up to 330℃ and beyond	
Environmental		
Operating Temperature Range	-10°C to 60°C	
	Contact your sales rep for higher operating temperature ranges	
Storage Temperature Range	-40°C to 80°C	
Solar Protection	Yes	
Humidity	10%~95%RH, non-condensing	
Regulatory	ROHS, WEEE, REACH	

- 1. Specified at nominal 25°C ambient operating temperature and nominal measurement distance of 12 inches. Temperature reported is Center Spot temperature, which is an average of the center 36 pixels.
 - Contact Seek Thermal for performance at other nominal operating temperatures and measurement distances.
- 2. Based on Johnson Criteria.
- **3.** Factory default emissivity is set to 0.97. Emissivity is adjustable using the SDK. See data sheet for more information.



