Mosaic Core Specification

	Mosaic Core Specifica		44/05/2024
Core Number: C306SP	Starter Kit Number: S306SP	Mktg Rev. 3	11/05/2021
Product Specifications:	Description		
Microbolometer	Uncooled Vanadium Oxide		
Pixel Pitch	12 Microns		
Spectral Response	7.8 - 14 Microns		
Sensor Resolution (Array Format)	320 (h) x 240 (v); 76,800 pixels		
Frame Rate	Slow Frame - <9Hz		
Non-Uniformity Correction (NUC)	Automatic NUC (with shutter)		
Video Output Interfaces	USB		
Power:			
Power Requirment	3.3-5.0V, <50mW (Core only), 300mW (Core	e + Coprocessor Board)	
Optical & Mechanical:			
Focal Length	6.6mm EFL		
F-number (Focal Length/aperture)	f/1.26		
Spatial Resolution (IFOV, center)	1.82		
Field of View (FOV)	34° Horizontal x 25° Vertical		
Detection Range	543m (based on Johnson Criteria)		
Recognition Range	136m (based on Johnson Criteria)		
Identification Range	78m (based on Johnson Criteria)		
Distance to Spot Ratio	91:1		
Core Size/ Core Weight	23mmx20mmx21mm	Core Weight: 12 g	
Seek Software Development Kit:			
Supported Platforms	USB: Seek Linux, Windows, & Android SDK		
Output Formates (User selectable)	Linux / Windows, & Android SDK	Android SD	V
Output Pormates (Oser selectable)	16-bit filtered pre AGC	16-bit filtered pre AGC	N
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	32-bit ARGB post colorization.	32-bit ARGB post colorization in the	
	32-bit floating point or 16-bit fixed point	32-bit floating point or 16-bit fixed p	point thermography data.
Imaging Specifications: Calibrated Output in °C, °F, K			
Imaging Range	-40°C to +330°C at ambient operating temp		
Thermography Accuracy	Center spot temperature greater of ±5°C or 5% between 5°C to 140°C		
	Center spot temperature greater of ±10°C or 10% (typical) above 140°C		
	All measured at 25°C ambient operating ten	nperature and nominal measuremen	
	Temperature reported is Center Spot temperature	nperature and nominal measuremen	
Sensor Sensitivity		nperature and nominal measuremen	
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