Mosaic Core Specification			
Core Number: C216SPX	Starter Kit Number: S216SPX	Rev. 3 11/05/202	21
Product 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	Fast Frame - up to <32Hz		
Non-Uniformity Correction (NUC)	Automatic NUC (with shutter)		
Video Output Interfaces	USB		
Power:			
Power Requirment	3.3-5.0V, <50mW (Core only), 300mW (Core + 0	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)	21° Horizontal x 15° 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 SDK	Android SDK	
	16-bit filtered pre AGC	16-bit filtered pre AGC	
	32-bit ARGB post colorization.	32-bit ARGB post colorization in the bitmap image.	
	32-bit floating point or 16-bit fixed point	32-bit floating point or 16-bit fixed point thermogra	phy
Imaging Specifications:	Calibrated Output in °C, °F, K		Ė
Imaging Range	-40°C to +330°C at ambient operating tempratu	re	
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 temperature and nominal measurement distance of 12 inches.		
	Temperature reported is Center Spot temperature, which is an average of the center 36 pixels.		
Sensor Sensitivity	65 mK (typical), <100 mK (max) @ 25°C		
Emmissivity	Factory default emissivity is set to 0.97. Emissivity is adjustable using the SDK.		
Environmental Conditions:			
Operating Temperature Range	-10°C to +60°C (-14°F to 140°F)		
Storage Temperature Range	-40°C to +80°C (-40°F to 176°F)		
Solar Protection	Yes		
Humidity	10%~95%RH, non-condensing		
Regulatory	ROHS, WEEE, REACH		
Accessories:			
Cushion	TES CAMERA	OR FLEX INTERFACE USB FLEX BOARD	
Bracket	Yes		
Sensor Flex	Yes 🔰 📞	Direction of the second of the	
Coprocessor Board	Yes LIHERMAL CORE COPROL	CESSOR BOARD AND INTERFACE KIT	
USB Flex	Voc	LESSUR BUARD AND IN BERALE AIT de by Seek or receive design files for tegration into other electronics	
Customer Responsibilities:	line.		
IP Rating	IP67		
Shock/Vibe Copyright 2021 Seek Thermal Inc.	Customer responsibility with proper integration	Specifications are subject to change without r	



