

SPECIFICATIONS

Thermal Imager		Boson+
Array Format	640 x 512	
Pixel Pitch	12 μ m	
Thermal Spectral Range	Longwave infrared; 8 μ m – 14 μ m	
Thermal Sensitivity	\leq 20 mK (Industrial); \leq 30 mK (Professional)	
Radiometric Temperature Measurement	n/a	
Full Frame Rate, Slow Frame Rate	60 Hz baseline; 30 Hz runtime selectable	
Non-uniformity Correction (NUC)	Factory calibrated	
Solar Protection	Integral	
Continuous Electronic Zoom	1x to 8x zoom	
Lens Options		
Array Format	95°; 4.9 mm	
Horizontal Field of View (HFOV); Effective Focal Length	50°; 8.7 mm	
	32°; 14 mm	
	24°; 18 mm	
	18°; 24 mm	
	12°; 36 mm	
	8°; 55 mm	
	6°; 73 mm	
Physical Attributes		
Size	21 x 21 x 11 mm (0.83 x 0.83 x 0.43 in) without lens	
Weight	7.5 g (0.26 oz) without lens	
Precision Mounting Holes	Four tapped M1.6x0.35 (rear cover)	
Interfacing		
Input Voltage	3.3 VDC	
Power Dissipation	Varies by configuration; starting at 900 mW	
Video Channels	CMOS or USB-2	
Control Channels	UART or USB	
Configurable GPIO	Up to 11; user configurable	
Environmental		
Operating Temperature Range	-40°C to 80°C (-40°F to 176°F)	
Non-Operating Temperature Range	-50°C to 85°C (-58°F to 185°F)	
Shock	1,500 g @ 0.4 msec	
Operational Altitude	12,192 m (40,000 ft) (max altitude of a commercial airliner or airborne platform)	

Specifications are subject to change without notice.
For the most up-to-date specs, go to www.flir.com/bosonplus

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22-0322-OEM-COR-Boson-Plus-Datasheet-LTR

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