

READY TO SENSE, READY TO IMAGE



Compact-sized thermal imager with embedded **shutterless** image correction: a disruptive design to meet demanding **compact camera** needs.

The Advanced Thermal Imager ATI320 provides a **versatile and efficient** solution for thermal imaging applications.

Designed especially for **high volume integration** and **automatic handling**, ATI320 offers camera makers an unmatched, flexible and easy-to-use device.



ATI320L



HIGH IMAGE QUALITY WITH EMBEDDED CORRECTION



SWaP SOLUTION



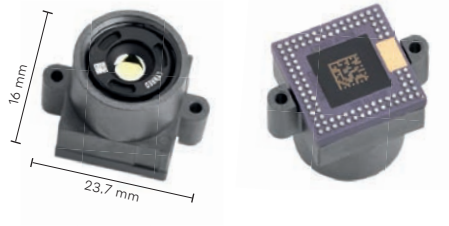
ACCELERATE YOUR CAMERA DEVELOPMENT

PRELIMINARY



•• ATI320: READY TO SENSE, READY TO IMAGE ••

ATI320L



KEY FEATURES	
Shutterless design for uninterrupted imaging	■ ATI320 features an embedded proprietary shutterless image processing enabling continuous imaging.
Shaped for high volume integration	■ ATI320 has been designed as a component providing high volume integration, thanks to its BGA (Ball Grid Array) package.
Flexible and versatile solution	■ Available in various lens configuration, ATI320 provides the best versatility to match camera makers needs

MAIN TECHNICAL ATTRIBUTES			
Resolution; pixel pitch	■ 320 x 240; 12µm pixel pitch		
Sensor performance: NETD (60 Hz, F/1, 300 K)	■ < 50 mK		
NUC (Non Uniformity Correction) and BPR (Bad Pixel Replacement)	■ Factory pre-calibrated and compensated		
Operating temperature (FPA temperature)	■ [-40°C to +85°C]		
Frame rate	■ 60 Hz full frame		
Power dissipation (ambient temperature)	■ < 400mW		
Time to first image	■ < 4 seconds		
Latency	■ 5 lines		
Packaging:	■ Type: Ceramic BGA (Ball Grid Array) ■ Size: 16 x 16 x 17,5 mm (excluding fasteners and balls) ■ Weight < 7,5g		
Focus range	ATI320L28-02	ATI320L42-02	ATI320L70-02
EFL	■ 3m to ∞	■ 1m to ∞	■ 0.4m to ∞
F/#	■ 7.8mm	■ 5.3mm	■ 3.15mm
HFOV	■ 1.0	■ 1.3	■ 1.2
	■ 28.1°	■ 40.8°	■ 70.0°
Qualification regulatory	■ MIL-STD-883H, ML-STD-810G		
Regulatory	■ REACH; ROHS		



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