

READY TO SENSE, READY TO IMAGE



Compact-sized thermal imaging component with **embedded image correction** and shutterless imaging: a disruptive design to meet demanding handled camera needs.

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

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



ATI320S



ATI320L



EMBEDDED IMAGE CORRECTION



CONTINUOUS IMAGING



ACCELERATE THE CAMERA DEVELOPMENT



SURVEILLANCE

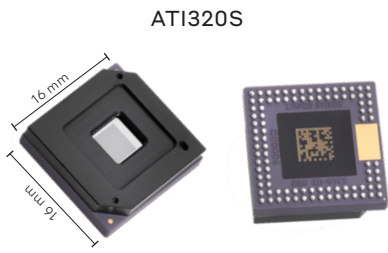


FIREFIGHTING



LEISURE

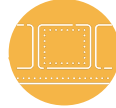
•• ATI320: READY TO SENSE, READY TO IMAGE ••



COMPACT



LOW POWER
CONSUMPTION



SEAMLESS
INTEGRATION



SHUTTERLESS
IMAGING



FACTORY
CALIBRATED

KEY FEATURES

Shutterless design for uninterrupted imaging	■ ATI320 features embedded a 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 two versions: with or without a lens; 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)	■ < 60 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 ATI320S: size; weight ATI320L42: size; weight	■ Ceramic BGA (Ball Grid Array) ■ 16x16x4,5 mm (excluding balls); < 3g ■ 16x16x17,5 mm (excluding fasteners and balls); < 7g
Lens focal length f-number FoV	■ 5.3 mm ■ f/1.3 ■ HFoV (40.8°); VFoV (31.0°); fixed focus
Qualification regulatory	■ MIL-STD-883H, ML-STD-810G
Regulatory	■ REACH; ROHS



LYNRED

LYNRED HEADQUARTERS
Avenue de la Vauve - CS 20018
91127 Palaiseau - France
Tel +33 (0)1 60 92 18 30
info@lynred.com

DEVELOPMENT AND PRODUCTION CENTER
Actipole - CS 10021 - 364, route de Valence
38113 Veurey-Voroize - France
Tel +33 (0)4 76 28 77 00
info@lynred.com