

ATI640[™]

640 x 480 - 12µm

READY TO SENSE, READY TO IMAGE



The ATI640TM Advanced
Thermal Imager is a
plug-and-play module
that streamlines camera
development for diverse
applications such as outdoor
leisure, surveillance, and
UAVs.

The ATI640™ incorporates a proven, high performance LYNRED thermal sensor combined with advanced image algorithms, ensuring the delivery of high-quality, corrected, and focused thermal images.

Experience seamless integration with the ATI640TM, arriving fully calibrated from the factory. Its advanced **shutterless** technology ensures uninterrupted imaging, eliminating freezing moments, and offering unrivaled experience.



HIGH IMAGE QUALITY WITH EMBEDDED CORRECTION AND SHUTTERLESS FUNCTION

SWAP

ACCELERATE YOUR
SYSTEM DEVELOPMENT







**ATI640™: READY TO SENSE, READY TO IMAGE **

ATI640S-SL™



ATI640L33™

ATI640L60™















IMAGE



FACTORY CALIBRATED

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	COMPACT

LOW POWER CONSUMPTION

QUALITY



KEY FEATURES ■ ATI640[™] features an embedded proprietary shutterless image Shutterless design for uninterrupted imaging processing enabling continuous imaging. Outputs: Parallel LVCMOS 14 bits or 24 bits with colorization Easy interface (3*8 bits) Serial MIPI CSI2 D-PHY (single data lane, 4 wires, Raw8, Raw14, YUV422) ■ Available with or without a lens; ATI640™ provides the best Flexible and versatile solution versatility to match camera makers needs NUC, BPR, Temporal and spatial denoising, Digital Detail Embedded advanced correction and features Enhancement, Tone mapping, Colorization, Symbol and text Overlay

MAIN TECHNICAL ATTRIBUTES		
Resolution; pixel pitch	■ 640 X 480; 12µm pixel pitch	
Sensitivity NETD (60 Hz, F/1, 300K, Denoising)	<u> ≤ 24mK</u>	
NUC (Non Uniformity Correction) and BPR (Bad Pixel Replacement)	Factory pre-calibrated and compensated	
Operating temperature	■ [-40°C; +65°C]	
Image quality temperature range	■ [-20°C; +65°C]	
Frame rate	■ 60 Hz full frame	
Power consumption (ambient temperature)	■ < 1.0 W	
Time to first image	■1 second	
Frame Latency	■ ~ 1.25 ms	
Packaging	 Size: 24.6 x 24.6 mm Weight: ATI640S: 15g, ATI640L17: 101g, ATI640L33: 54g, ATI640L60: 60g 	
	ATI640L17™ ATI640L33™ ATI640L60™	
Focus range EFL F/# HFOV	■ 3m - ∞	
Qualification	■ MIL-STD-883L, MIL-STD-810H	
Regulatory	■ REACH; ROHS	









LYNRED **HEADQUARTERS**

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