

Alizé 1.7TM INFRARED CAMERA



The Alizé 1.7 is a high-end, scientific grade, 640×512 pixels resolution, InGaAs camera that marries performance with reliability. It has low noise levels, high efficiency, and a rapid frame rate compatible with an external trigger. This is made possible by a combination of state-of-the-art control electronics and a four stage thermoelectric cooler (TEC) which can maintain an operating temperature as low as -60 °C. The TEC, in turn, uses forced air cooling which requires none of the maintenance of a water or liquid nitrogen cooled unit.

The Alizé 1.7 is amongst the most cost-effective high-end InGaAs cameras on the market.

ECHNICAL SPECIFICATIONS					
	Alizé 1.7x		Alizé 1.7s		
Sensor	InGaAs FPA		InGaAs FPA		
Sensor Format	640 x 512		640 x 512		
Pixel size	15 μm		15 um		
Spectral range	500 - 1700 nm		900 - 1700 nm		
Peak Quantum Efficiency	> 85 %		> 80 %		
Typical operability	> 99.9 %		> 99.5 %		
Cooling Temperature @ 20°C ambiant	-60 °C		-60 °C		
Cooling method	TEC + forced air		TEC + forced air		
Typical Dark Current*	150 ē/px/s		240 ē/px/s		
	High	Low	Low	Med	Low
Typical Gain setting (ē/ADU)	2.67	47.5	2.2	7.4	89
Typical readout noise (ē)	22	135	35	75	315
Typical full well capacity (kē)	8.5	250	27	110	140
Readout modes	CDS ITR	STD ITR	CDS ITR, CDS IWR, IMRO IW		
Frame Rate	110	220	250		
ROI Frame Rate	Up to 500	Up to 900	Up to 4300		
Integration time range	from 1 µs to full well capacity		from 1 µs to full well capacity		
Digitization	13 bits		14 bits		
Image Format	16 bits HDF5, FITS and TIFF		16 bits HDF5, FITS and TIF		
Software	PHySpec™ control and analysis software, SDK (C++, Python)		PHySpec™ control and analys software, SDK (C++, Python		
Computer interface	USB 3.0 and CameraLink™		USB 3.0 and CameraLink™		
External control	Trigger IN / OUT		Trigger IN / OUT		
Ambient temperature range	10 °C to 35 °C		10 °C to 35 °C		
Power Supply	12V DC		12V DC		
Dimensions	169 mm x 130 mm x 97 mm		169 mm x 130 mm x 97 mr		
Weight	2.9 kg		2.9 kg		
Certification	C € control of the c		C € comus		
		et	l		

MAIN ADVANTAGES OF TEC + AIR SYSTEM

» Compact

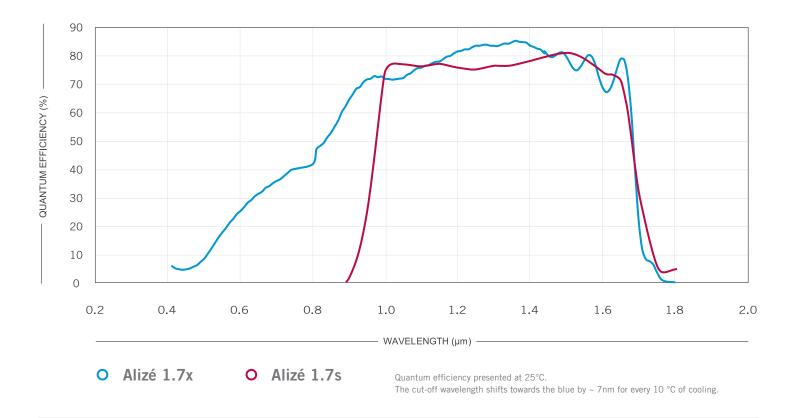
» No maintenance

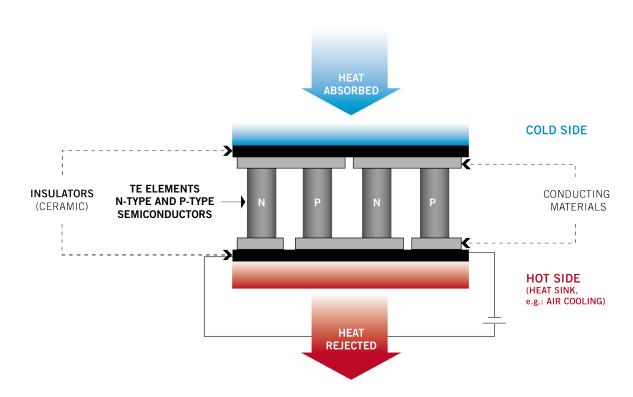
» Highly reliable

» Low dark current

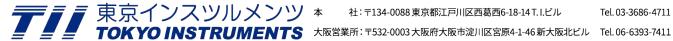
» Long lifetime

» Low readout noise





Schematic of a thermoelectric device where the Peltier effect is used to generate heat flow between two materials.



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