

LEO 3243Pro

The Leo 3243 has been designed to break the relationship between pixel size and full well capacity. Delivering small pixels to drive spatial resolution to match lower magnification lenses whilst delivering 10x the full well capacity of similar sized pixels, ensuring data is not saturated or lost in the noise.



Key Features

- · Stacked BSI sCMOS
- \cdot 3.2 μ m pixels
- · 8192 x 5232
- · 31 mm Diagonal
- · 100 fps @ 43MP

Typical Applications

- · Genomics
- · Slide Scanning
- · High Content Screening

Quantum Efficiency



Sp	ecit	icat	ions	

specifications		
Product Model	Leo 3243 Pro	
Sensor Model	Gsense 3243BSI	
Sensor Type	Stack BSI CMOS	
Shutter Type	Rolling	
Pixel Size	3.2 μm ×3.2 μm	
Peak QE	80%	
Chrome	Color / Mono	
Array Diagonal	31 mm	
Effective Area	26.2 mm x 16.7 mm	
Resolution	8192 x 5232	
Full Well Capacity	19 ke-@HDR; 7.2 ke-@High Gain	
Dynamic Range	75dB	
Frame Rate	100 fps@Standard mode 50 fps@HDR, 100 fps@Compressed HDR	
Read out Noise	3 e-	
Dark Current	<1e- / pixel / s@ 0 °C	
Cooling Method	Air / Liquid	
Cooling Temp.	Locked at $@ -5^{\circ}C$ (Water cooling) Locked at $@ 5^{\circ}C$ (Air cooling)	
Output Trigger Signals	Customer Specified	
Trigger Interface	HIROSE	
Data Interface	100G QFSP28	
Data Bit Depth	8, 12 and 16-bit	
Optical Interface	Customer Specified	
Dimensions	Compact Desgin	
Weight	<1kg	