

LINEA HS2 8k / 16k

High Speed TDI Cameras

PRELIMINARY



KEY FEATURES

- 8k/16k 1 MHz max line rate
- 65 dB dynamic range
- On chip 2x binning
- Multi-array TDI
- CLHS CX4 12.5G AOC output

TYPICAL APPLICATIONS

- Semiconductor wafer inspection
- High density packaging
- Genomics and life sciences
- Flat panel display
- Web inspection
- General machine vision

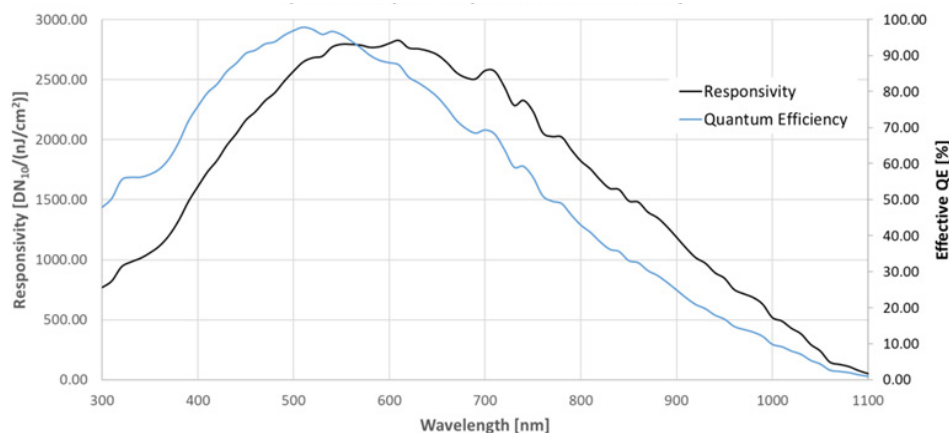
The Industry's First 16k 1MHz TDI Camera

Teledyne DALSA's new Linea™ HS2 represents another breakthrough in next generation TDI technology. Designed for ultra high speed imaging in light starved conditions, this camera offers superior image quality with 8k and 16k resolution at a max line rate of 1MHz optimized for 266 nm. It has a CLHS data interface that achieves 16 GB/s data throughput with field-proven reliability in data transmission.

SPECIFICATIONS

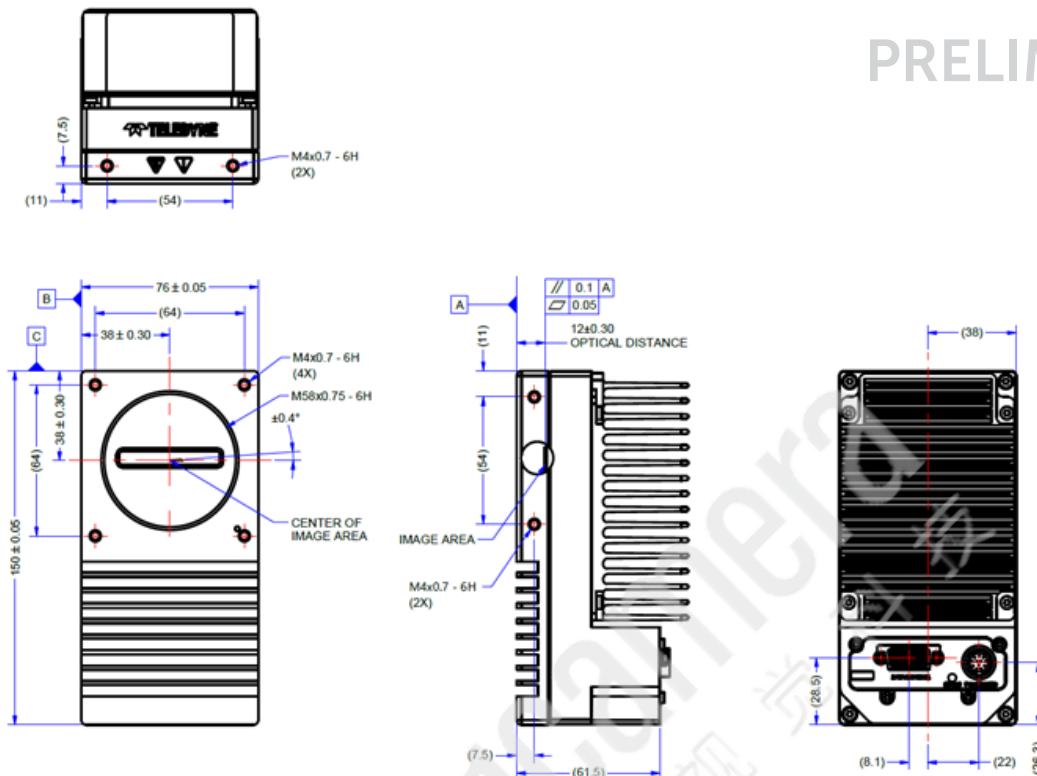
Part Number	H2-HM-08K100H-00-B	H2-HM-16k100H-00-B
Resolution, Pixel	8,192 x (128+128+32)	16,384 x (128+128+32)
Max Line Rate, kHz	1000	
Pixel Size, μm	5 x 5	
Data Format, bit	8 or 10	
QE %, peak	95	
Dynamic Range, dB	65	
Full Well, ke-	33	
Read Noise, typical e-	20	
Power Dissipation, W	28	56
Operating Temp, °C	0 to +50, frontplate	
Dimension, mm	76 (W) x 150 (H) x 73.5 (D)	97 (W) x 180 (H) x 76.9 (D)
Weight, g	940	1480
Lens Mount	M58 x 0.75	M90x1
Data Interface	CLHS CX4	Dual CLHS CX4
GPIO	Hirose 12-pin	
Power	+24 VDC, Hirose 12pin	
Regulatory compliant	CE, FCC, KC and RoHS	

SPECTRAL QUANTUM EFFICIENCY (TBD)

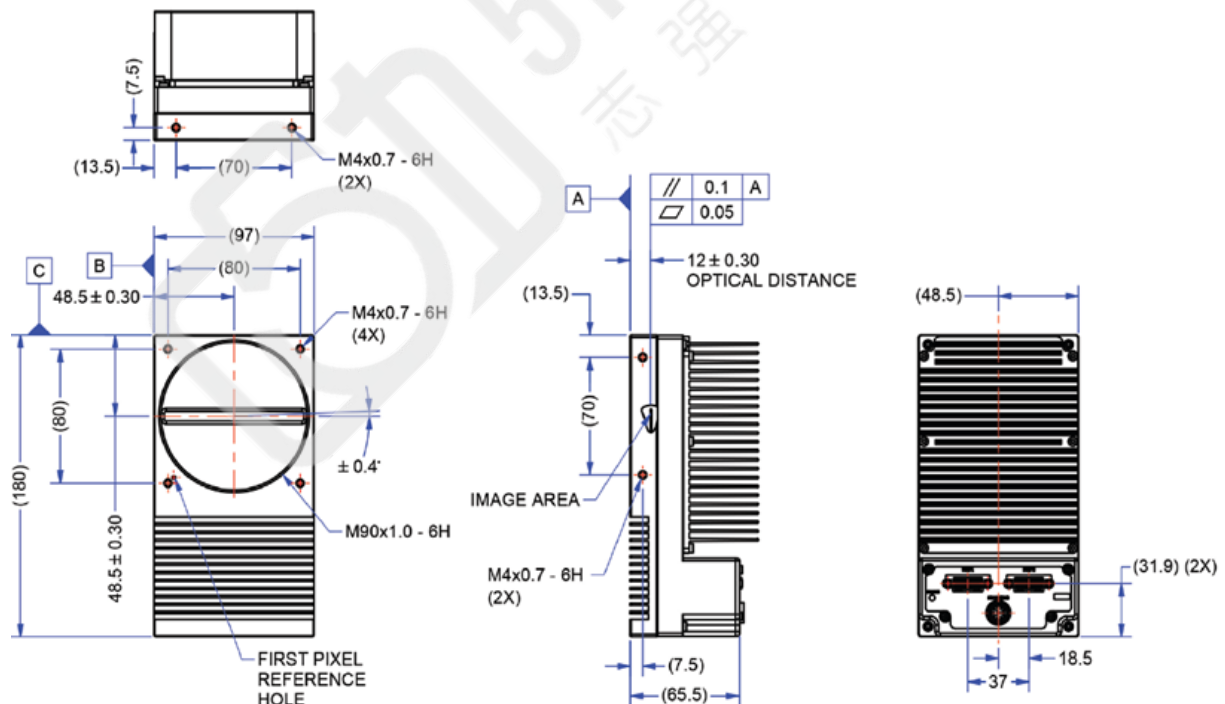


8K MODEL

PRELIMINARY



16K MODEL



FOR MORE INFORMATION CONTACT:

THE AMERICAS Boston, USA | +1-978-670-2000 | TDI_sales.americas@teledyne.com
 EUROPE Munich, Germany | +49-89-89-54-57-380 | TDI_sales.europe@teledyne.com
 JAPAN & ASIA PACIFIC Tokyo, Japan | +81-3-5960-6353 | TDI_sales.asia@teledyne.com
 SHANGHAI OFFICE Shanghai, China | +86-21-6013-1571 ext. 801 | saleschina@teledyne.com

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