Sonic Camera

1 MHz line-rate with 256x TDI

Experience the highest throughput and unprecedented image quality with our Sonic 1MHZ TDI line scan camera, designed for high-end optical inspection applications.

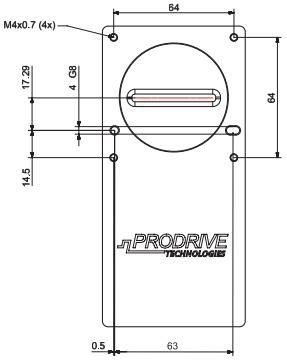
The Sonic camera redefines TDI imaging by delivering speeds of up to 1MHz with resolutions ranging from 8k to 16k pixels. Its BSI sensor technology, featuring 256 TDI stages, allows for faster image acquisition even in challenging light conditions.

Specification	Sonic-8K500	Sonic-8K1000	Sonic-16K500	Sonic-16K1000
Sensor	GLT5008BSI	GLT5008BSI	GLT5016BSI	GLT5016BSI
Resolution	8,192	8,192	16,384	16,384
Pixel Size	5 x 5 µm	5 x 5 µm	5 x 5 µm	5 x 5 µm
Max. line rate 10 bit	-	1000kHz	-	1000kHz
Max. line rate 12 bit	500kHz	500kHz	500kHz	500kHz
TDI stages	256 (available at full speed)	256 (available at full speed)	256 (available at full speed)	256 (available at full speed)
QE	70% @ 266nm (UV version) 58% @ 355nm (UV version) 94% @ 460nm (VIS version) 87% @ 530nm (VIS version)	70% @ 266nm (UV version) 58% @ 355nm (UV version) 94% @ 460nm (VIS version) 87% @ 530nm (VIS version)	70% @ 266nm (UV version) 58% @ 355nm (UV version) 94% @ 460nm (VIS version) 87% @ 530nm (VIS version)	70% @ 266nm (UV version) 58% @ 355nm (UV version) 94% @ 460nm (VIS version) 87% @ 530nm (VIS version)
Bi-directional read-out	Yes	Yes	Yes	Yes
Binning	Yes	Yes	Yes	Yes
Pixel format	8/10/12b	8/10/12b	8/10/12b	8/10/12b
Interface	Camera Link High-Speed (CLHS) via 1 MTP-12 optical connector (no external transceiver required)	Camera Link High-Speed (CLHS) via 1 MTP-12 optical connector (no external transceiver required)	Camera Link High-Speed (CLHS) via 1 MTP-12 optical connector (no external transceiver required)	Camera Link High-Speed (CLHS) via 1 MTP-12 optical connector (no external transceiver required)
Dimensions	76 x 160 x 58.5 mm	76 x 160 x 58.5 mm	120 x 160 x 58.5 mm	120 x 160 x 58.5 mm
Triggering	1x HW trigger 1x SW trigger	1x HW trigger 1x SW trigger	1x HW trigger 1x SW trigger	1x HW trigger 1x SW trigger
Lens Mount	M58 x 0.75	M58 x 0.75	M95 x 1.0	M95 x 1.0
Supply Voltage	12V	12V	12 – 24V	12 – 24V
Power (typ.)	25W	25W	40W	40W
Cooling	Air or Water	Air or Water	Air or Water	Air or Water

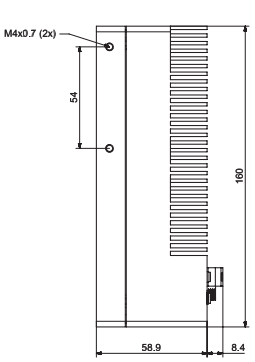
Product features

- Up to 1MHz line rate for high throughput applications.
- Bi-directional scanning.
- BSI sensor with 256 TDI stages for high sensitivity.
- 266/355nm DUV enhanced sensitivity.
- Support for water cooling.
- End-to-end solution including frame grabber.

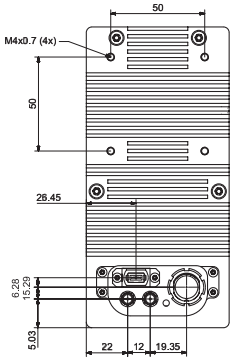
Mechanical dimensions (mm)



Front



Side



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Information subject to change contact us for more details

PRODRIVE TECHNOLOGIES

Website: www.prodrive-technologies.com E-mail: sales@prodrive-technologies.com Tel: +31 (0)40 2676200