

Piranha HS 4k and 8k (Prelim)

Advanced Line Scan Cameras



Key Features

- Line rates up to 68kHz
- Up to 640Mpixels/s throughput
- Responsivity up to 2880DN/(nJ/cm²)
- Calibration time is 10 seconds (4k) or 15 seconds (8k)
- Bidirectional
- Up to 8192 pixels
- Antiblooming
- Camera Link™
- Area mode operation allows easier camera alignment

Programmability

- Stage selectability up to 96 stages
- Mirroring and forward/reverse control
- Selectable TDI or area mode operation
- Flat field correction
- Gain control from -10dB to +10dB

Typical Applications

- Flat panel display inspection
- Postal sorting (flats)
- High performance document scanning
- Low-light applications
- Large web applications

Overview

Up to 8k of resolution and over 50x the responsivity of comparable line scan cameras

The Piranha HS camera family represents DALSA's latest generation of high sensitivity, TDI based cameras. The Piranha HS family maximizes system throughput and provides the largest number of pixels available in a TDI camera.

Depending on your model, the Piranha HS has line rates up to 68kHz and throughputs up to 640MHz. Camera configuration is extremely flexible and the number of Camera Link taps, throughput, and line rate are all software controllable.

All cameras are capable of bidirectionality with up to 96 stages of selectability, while preventing overexposure with antiblooming.

Specifications

Resolution	4096 x 96 or 8192 x 96 TDI
Data Rate	4k: 160MHz 8k:320 or 640MHz
Max. Line/Frame Rate	36kHz or 68kHz
Pixel Size	7μm x 7μm
Data Format	8/12 bit Base, Med, or Full Camera Link
Lens Mount	M72x0.75 (8k), M42x1/F-mount option (4k)
Responsivity	1170DN/(nJ/cm ²)broadband,8 bit,10dB
Dynamic Range	54dB
Nominal Gain Range	-10dB to 10dB
Size	4k:85x85x50 8k:150x80x66
Mass	4k:<500g 8k:<800g
Operating Temp	0-50°C
Power Supply	12V-15V
Power Dissipation	4k:<14.5W 8k:<19W
Regulatory Compliance	CE
Control	MDR26 Camera Link
Data	Shared with Control
Power	Hirose HR10 6 pin
Example Part Number	HS-80-08k80

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Advanced Line Scan Cameras

These High Sensitivity Line Scan cameras use TDI technology to maximize photon capture at these high line rates. With data rates up to 640MHz and up to 8k of resolution, these cameras inspect and detect with unrivalled precision and speed.

