Overview

8k of resolution and 100X greater responsivity than traditional line scan cameras

The Piranha HS camera family represents DALSA’s latest generation of high sensitivity, TDI based cameras. With a maximum line rate of 68 kHz and throughput up to 640 MHz, the Piranha HS 8k maximizes system throughput and provides the largest number of pixels available in a TDI camera. Camera alignment is also made easier with the selectable area mode of operation.

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.

The HS 8k is available in two speed grades so you can select the best camera throughput for your application.

Specifications

- Resolution: 8192 x 96 TDI
- Data Rate: 320 / 640 megapixels/second
- Max. Line/Frame Rate: 34 / 68 kHz
- Pixel Size: 7 μm
- Data Format: 8, 12 bit
- Output: Med, Full Camera Link
- Lens Mount: M72 x 0.75
- Responsivity: 1170 DN/(nJ/cm²)broadband, 8 bit, 10 dB
- Dynamic Range: 56 dB
- Nominal Gain Range: ±10 dB
- Size: 150 mm x 80 mm x 65 mm
- Mass: <800 g
- Operating Temp: 0 °C to 50 °C
- Power Supply: 12 V to 15 V
- Power Dissipation: <15 W (40 MHz) / <20 W (80 MHz)
- Regulatory Compliance: CE and RoHS
- Control: MDR26 Camera Link
- Data: Shared with Control
- Power: Hirose HR10 6 pin
- Example Part Number: HS-80-08k80
These High Sensitivity Line Scan cameras use TDI technology to maximize photon capture at these high line rates. With data rates up to 640 MHz and 8k of resolution, these cameras inspect and detect with unrivalled precision and speed.