

# Piranha2 P2-80-12K40

## Line Scan Cameras



### Key Features

- 12288 pixels
- 7  $\mu\text{m}$  x 7  $\mu\text{m}$  pixel size
- 100% fill factor
- 8 taps, bilinear CCD
- 320 MHz data rate
- 24 kHz line rate
- Single 12 V to 15 V power supply
- Full Camera Link
- 8 bit output from 10 bit digitization

### Programmability

- Flat field correction— lens vignetting and non-uniform lighting across field of view
- Adjustable gain from -10 dB to +10 dB
- Offset control
- Test pattern and diagnostics

### Typical Applications

- Electronics manufacturing, such as printed circuit board inspection
- Web inspection
- High speed applications

### Overview

With 12k of resolution and 8 output taps, this camera inspects and detects with amazing precision and speed.

With line rates reaching 24 kHz and a resolution of 12288 pixels, the P2-80-12K40 line scan camera specifically meets the demands of electronics manufacturing inspection and web inspection.

The Camera Link interface provides powerful programmability and versatility including flat field correction, programmable line rate, exposure time, gain, offset, and diagnostics. To speed setup and system debugging, the camera can output a test pattern and end-of-line sequence to help track the path of data through an acquisition system.

### Specifications

Resolution	12288
Data Rate	8 x 40 MHz
Max. Line/Frame Rate	24 kHz
Pixel Size	7 $\mu\text{m}$
Data Format	8 bit
Output	Full Camera Link
Lens Mount	M3 x 0.5 x 7.0 deep (4x) adapter required
Responsivity	29.7 DN/(nJ/cm <sup>2</sup> ) @ 10 dB
Dynamic Range	53.7 dB
Nominal Gain Range	TBD
Size	170 mm x 114 mm x 47.3 mm
Mass	1.25 kg
Operating Temp	25 °C to 40 °C
Power Supply	12 V to 15 V
Power Dissipation	<17 W
Regulatory Compliance	CE
Control	MDR26 Camera Link
Data	Shared with Control
Power	Hirose HR10 6 pin
Example Part Number	P2-80-12K40

# Piranha2 P2-80-12K40

## Line Scan Cameras

*12k of resolution, 7  $\mu$ m pixels,  
and 320 MHz output all in one  
incredible package.*

