## Spyder2 S2-1x-xxx40

Line Scan Cameras



## **Key Features**

- Resolutions from 512 to 2k
- High responsivity
- Base Camera Link™
- 8 or 10 bit selectable output
- Single 12 V to 15 V power supply
- Compact design

#### **Programmability**

- Programmable pixe to pixel correction
- Adjustable analog and digital gain and offset
- 8 or 10 bit selectable output
- Adjustable integration time and line rate
- Test pattern, line statistics, and camera diagnostics

#### **Typical Applications**

- Web inspection (multi-cam and narrow web)
- Pick and place
- Document scanning
- Flat panel display inspection

#### Overview

# The Spyder2 is powerful yet very cost effective.

The Spyder2 is a small, fast, and cost effective camera boasting a full feature set and a Camera Link interface. The Spyder2 surpasses its predecessor in responsivity and programmability, requires less lighting, and offers precise control over key performance variables such as gain and offset. With a single tap operating at 40 MHz, the Spyder2 provides the throughput your application requires with no compromise to image quality. For those OEMs migrating from the original Spyder, the Spyder2 does not require a new optics design because pixel size and fill factor remain unchanged from the original Spyder at 14  $\mu$ m and 100% respectively.

In addition to its high performance and affordability, the Spyder2 also incorporates advanced features such as flat field correction and CDS (Correlated Double Sampling). All resolutions provide appropriate, readily available standard lens options (C mount and F mount).

### **Specifications**

Resolution 512 / 1024 / 2048

Data Rate 40MHz

Max. Line/Frame Rate 65 / 35 / 18 kHz Pixel Size  $14 \mu m$ 

Pixel Size  $14 \mu \text{m}$ Data Format 8, 10 bit

Output Base Camera Link Lens Mount See Chart

Responsivity 136 DN/(nJ/cm<sup>2</sup>) @ 10 dB

Dynamic Range 54 dB Nominal Gain Range  $\pm 10$  dB

Size 50 mm x 85 mm x 53.7 mm

Mass < 450 g
Operating Temp 10 °C to 50 °C
Power Supply 12 V to 15 V
Power Dissipation <5 W
Regulatory Compliance CE

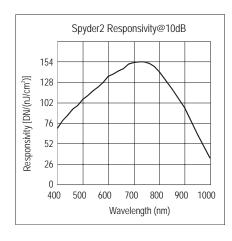
Regulatory Compliance CE
Control MDR26 Camera Link
Data Shared with Control
Power Hirose HR10 6 pin
Example Part Number S2-11-01K40



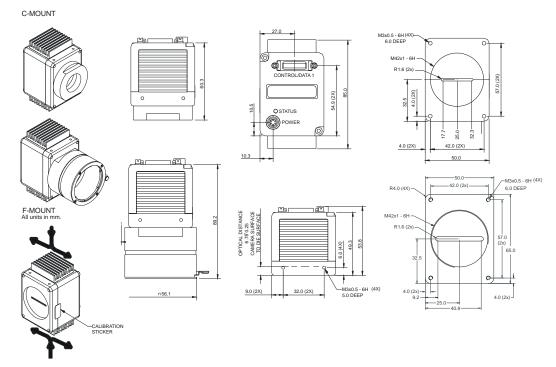
# Spyder2 S2-1x-xxx40

Line Scan Cameras

The Spyder2 is powerful and versatile yet very cost effective. Its Camera Link interface means cheaper cabling.







Camera Resolution	Available Lens Mount Options
0512, 1 tap	No mount, C-mount, F-mount
1K, 1 tap	No mount, C-mount, F-mount
2K, 1 tap	No mount, C-mount, F-mount

Order Option	Lens Mount Configuration
S2-10-0xx40	No mount or adapter
S2-11-0xx40	C-mount
S2-12-0xx40	F-mount

