High Performance and Low Cost. Now in Color.

The new Linea Color™ line scan camera delivers the exceptional performance and features found in Teledyne DALSA’s current lineup of high-end cameras at an unprecedented price point.

Based on bilinear CMOS technology, the Linea Color camera has a 8k, 7.04 µm x 7.04 µm pixel array, and a 48 kHz maximum line rate. With excellent sensitivity and speed, Linea Color surpasses the requirements of demanding applications—such as materials grading, web inspection, and general purpose machine vision.

The Linea Color is a compact, light weight and robust camera with many attractive features, including flat-field correction, multiple ROI, multiple user configuration sets, and calibration coefficients for various lighting conditions.

The GenICam™ compliant Linea is easy to set up and integrate using a GUI, such as Teledyne DALSA’s Sapera™ camera configuration utility CamExpert, or an ASCII interface using three letter commands.

### Specifications

- **Resolution**: 8192 x 2 pixels
- **Line Rate**: Up to 48 kHz
- **Pixel Size**: 7.04 µm x 7.04 µm
- **Data Format**: 8 or 12 bit selectable
- **Output**: Base, Medium, Full, and Deca Camera Link
- **Lens Mount**: M72 x 0.75, F-mount adapter available
- **Responsivity**: See graph
- **Dynamic Range**: > 60 dB
- **Nominal Gain Range**: 10x
- **Size**: 76.0 mm x 76.0 mm x 30.7 mm
- **Mass**: < 310 g
- **Operating Temp**: 0 °C to 65 °C (front plate)
- **Power**: Hirose 6-pin, 12 V to 24 V DC
- **Power Dissipation**: 11 W
- **Control & Data**: SDR-26 mini Camera Link

### Models

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resolution</th>
<th>Maximum Line Rates</th>
<th>Pixel Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA-CC-08K05B-00-R</td>
<td>8192 x 2</td>
<td>48 kHz</td>
<td>7.04 µm x 7.04 µm</td>
</tr>
</tbody>
</table>

Key Features

- High speed: up to 48 kHz
- 8192 x 2 pixel resolution
- Low cost and compact
- Camera Link interface

Programmability

- GenICam or ASCII compliant interfacing
- Multiple Regions of Interest for calibration and data reduction
- 8 or 12 bit output, selectable
- Smart flat field and lens shading correction
- 8 programmable coefficient sets

Typical Applications

- Automated optical inspection
- High performance sorting systems
- Materials grading
- Web inspection
- General purpose machine vision

Regulatory Compliance

- CE, FCC and RoHS
Linea Color™ 8K Camera Link
CMOS Line Scan Cameras

Linea 8K Color Typical Spectral Responsivity
No White Balance, 8 bit, Gain 1x

NOTES:
1. UNITS: MILLIMETERS.
2. IMAGE AREA IS ALIGNED TO DATUMS A, B, & C.

www.teledynedalsa.com

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