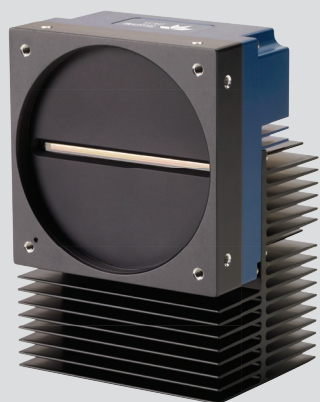




## Linea™ ML Trilinear

4k, 8k and 16k Trilinear Color CMOS Camera



### Key Features

- » High speed up to 100 kHzx3
- » RGB native colors
- » Independent exposure control
- » Subpixel spatial correction
- » Up to 100 m optical cable length

### Programmability

- » Multiple regions and areas of interest
- » Flat field and lens shading correction
- » Rapid switching of coefficient sets
- » GenICam™ compliant interface

### Typical Applications

- » Printing inspection
- » Printed circuit board inspection
- » Flat panel inspection
- » Digital pathology
- » Electronics inspection
- » Web inspection
- » Machine vision

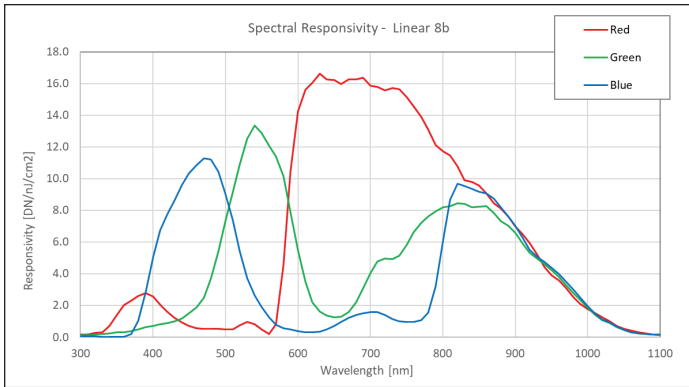
## High-Speed Color Camera with a Fiber Optic Interface

The Linea™ ML trilinear color CMOS cameras meet the requirements of demanding imaging applications with industry leading performance. Based on Teledyne DALSA's unique CMOS line scan technology, the Linea ML trilinear cameras deliver superb color images with a high-speed fiberoptic cable.

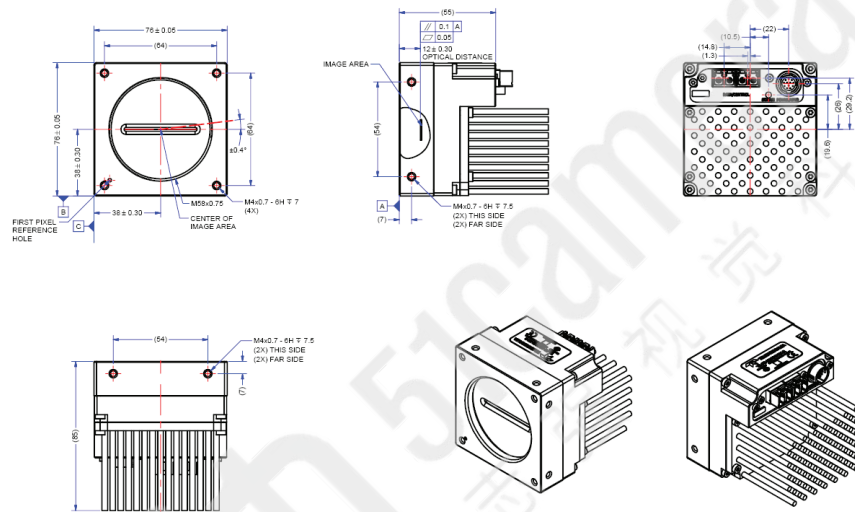
| Specifications        |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| Resolution            | 4,096 x 3 pixels (4k); 8,192 x 3 pixels (8k)<br>16,384 x 3 pixels (16k) |
| Line Rate             | 100 kHz x 3 maximum                                                     |
| Pixel Size            | 10 x 10 / 5 x 5 µm                                                      |
| Data Format           | 8 bit                                                                   |
| Output                | RGB color                                                               |
| Lens Mount            | M58 x 0.75 (4k, 8k)<br>M90 x 1 (16k)                                    |
| Responsivity          | See graph                                                               |
| Dynamic Range         | 60 dB                                                                   |
| Nominal Gain Range    | 1x to 10x                                                               |
| Size                  | 76 mm x 76 mm x 85 mm (4k, 8k)<br>97 mm x 140.5 mm x 78.6 mm (16k)      |
| Mass                  | 500 g (4k, 8k)<br>1.2 kg (16k)                                          |
| Operating Temp        | 0 °C to +65 °C, front plate                                             |
| Power                 | +12 V to +24 V DC, Hirose 12-pin                                        |
| Power Dissipation     | <16 W (4k, 8k)<br><28 W (16k)                                           |
| Control & Data        | Camera Link HS, CX4/LC                                                  |
| GPIO                  | Direction and independent line control                                  |
| Regulatory Compliance | CE, FCC, and RoHS                                                       |

### Camera Model

| Part Number       | Resolution       | Max. Line Rates | Pixel Size | Output |
|-------------------|------------------|-----------------|------------|--------|
| ML-FC-04k15T-00-R | 4096 x 3 pixels  | 150 kHz x 3     | 10 x 10 µm | RGB    |
| ML-FC-08k10T-00-R | 8192 x 3 pixels  | 93 kHz x 3      | 5 x 5 µm   | RGB    |
| ML-FC-16k02T-00-R | 16384 x 3 pixels | 25 kHz x 3      | 5 x 5 µm   | RGB    |
| ML-FC-16k04T-00-R | 16384 x 3 pixels | 47 kHz x 3      | 5 x 5 µm   | RGB    |
| ML-HC-16k10T-00-R | 16384 x 3 pixels | 100 kHz x 3     | 5 x 5 µm   | RGB    |

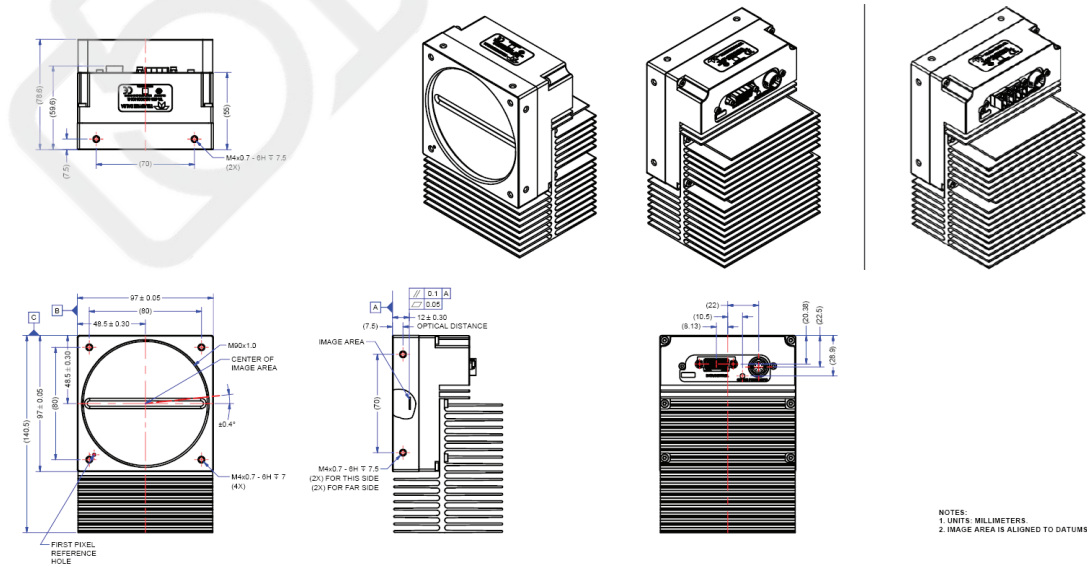


### 4k, 8k Model



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

### 16k Model



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

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