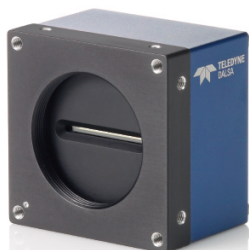




# Linea Color 2K and 4K GigE Vision

Color CMOS Line Scan Cameras

## High Performance Color GigE Camera with TurboDrive



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

Based on bilinear color CMOS technology, the Linea Color GigE cameras has a 2k or 4k 7.04 μm x 7.04 μm pixel array. With excellent sensitivity and speed, Linea Color surpasses the requirements of demanding applications—such as food sorting, materials grading, web inspection, and general purpose machine vision.

The Linea Color cameras come complete with many attractive features, including configurable GPIO ports, Burst Mode and Meta Data per each line. The GigE models provide multiple ROI and AOI, and multiple user and calibration coefficients sets for various lighting conditions.

Our proprietary, patent pending, TurboDrive™ technology delivers high speed data transfer capability that breaks through the GigE limit. Depending on the application, speeds up to 45 kHz are achievable, as TurboDrive boosts data transfer speeds 2 or 3 times faster than standard GigE Vision™ speeds – with no loss of image quality.

### Key Features

- Low cost
- Burst mode
- Compact
- Meta data per each line

### Programmability

- Multiple regions of interest and areas of interest for calibration and data reduction
- 8 bit output
- Smart flat field and lens shading correction
- 4 programmable coefficient sets
- Configurable GPIO ports, timers and counters

### Typical Applications

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

### Regulatory Compliance

- CE, FCC and RoHS

### Specifications

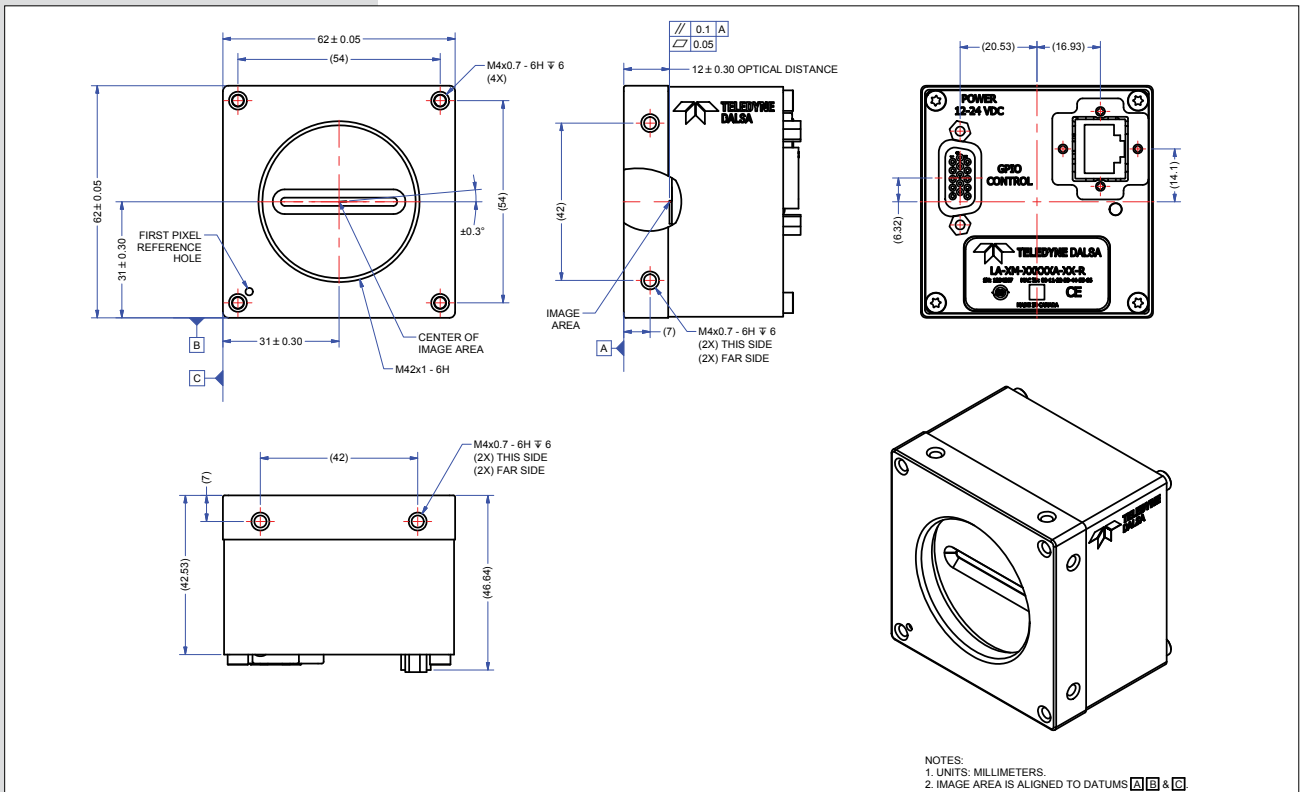
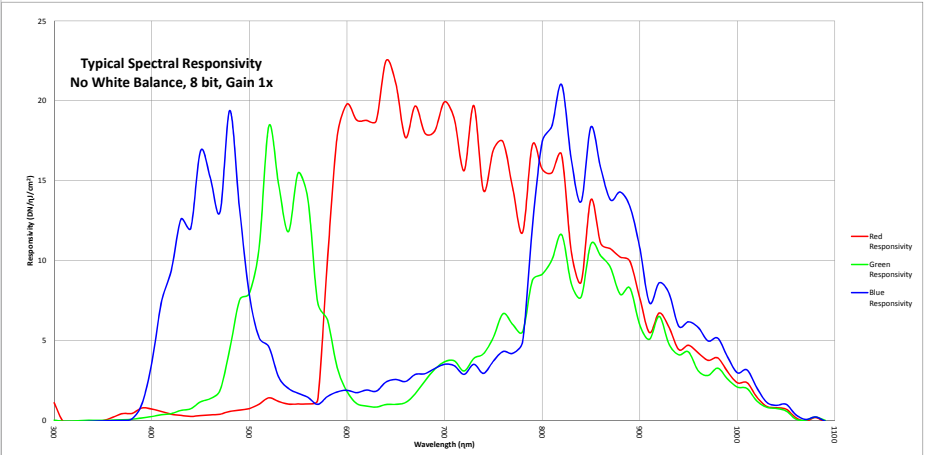
Resolution	2048 x 2 or 4096 x 2
Line Rate	26 kHz, maximum—2k models without TurboDrive 13 kHz, maximum—4k models without TurboDrive (45 kHz, maximum—both models with TurboDrive)
Pixel Size	7.04 μm x 7.04 μm
Data Format	8 bit
Output	Gigabit Ethernet
Lens Mount	M42 x 1, C and F-mount adapters available
Responsivity	See graph
Dynamic Range	> 60 dB
Nominal Gain Range	10x
Size	62 mm x 62 mm x 46.64 mm
Mass	< 280 g
Operating Temp	0 °C to 65 °C (front plate)
Power	+12 V to +24 V DC, HD15 connector (shared with I / O)
Power Dissipation	< 8 W
I / O	HD15 connector
Software Platform	GigE Vision v1.2 compliant Teledyne DALSA Sopera LT or 3rd party GenICam™ compliant SDK

Part Number	Models		
	Resolution	Maximum Line Rates	Pixel Size
LA-GC-02K05B-00-R	2048 x 2	26 kHz without TurboDrive (45 kHz with TurboDrive)	7.04 μm x 7.04 μm
LA-GC-04K05B-00-R	4096 x 2	13 kHz without TurboDrive (45 kHz with TurboDrive)	7.04 μm x 7.04 μm



# Linea Color 2K and 4K GigE Vision

CMOS Line Scan Cameras



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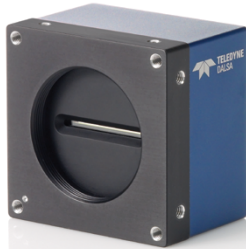
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Revision number 03-070-20093-02. Revision date October 31, 2016.



# Linea 2K and 4K GigE Vision

Monochrome CMOS Line Scan Cameras



## High Performance Monochrome GigE Camera with TurboDrive

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

Based on the most advanced CMOS line scan technology, the Linea GigE cameras have a 2k or 4k single line 7.04 μm x 7.04 μm pixel array. With excellent sensitivity and speed, Linea surpasses the requirements of demanding applications—such as materials grading and inspection, transportation safety, and general purpose machine vision.

The Linea cameras come complete with many features, including cycling mode, configurable GPIO ports, burst mode and meta data per each line. Like the Camera Link models, the GigE models provide multiple ROI and AOI, and multiple user and calibration coefficients sets for various lighting conditions.

Our proprietary, patent pending, TurboDrive™ technology delivers high speed data transfer capability that breaks through the GigE limit. Depending on the application, speeds up to 80 kHz are achievable, as TurboDrive boosts data transfer 2 or 3 times faster than standard GigE Vision™ speeds – with no loss of image quality.

### Key Features

- Low cost
- Cycling mode
- Compact
- Burst mode
- Meta data per each line

### Programmability

- Multiple regions of interest and areas of interest for calibration and data reduction
- 8 or 12 bit output, selectable
- Smart flat field and lens shading correction
- 4 programmable coefficient sets
- Configurable GPIO ports, timers and counters

### Typical Applications

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

### Regulatory Compliance

- CE, FCC and RoHS

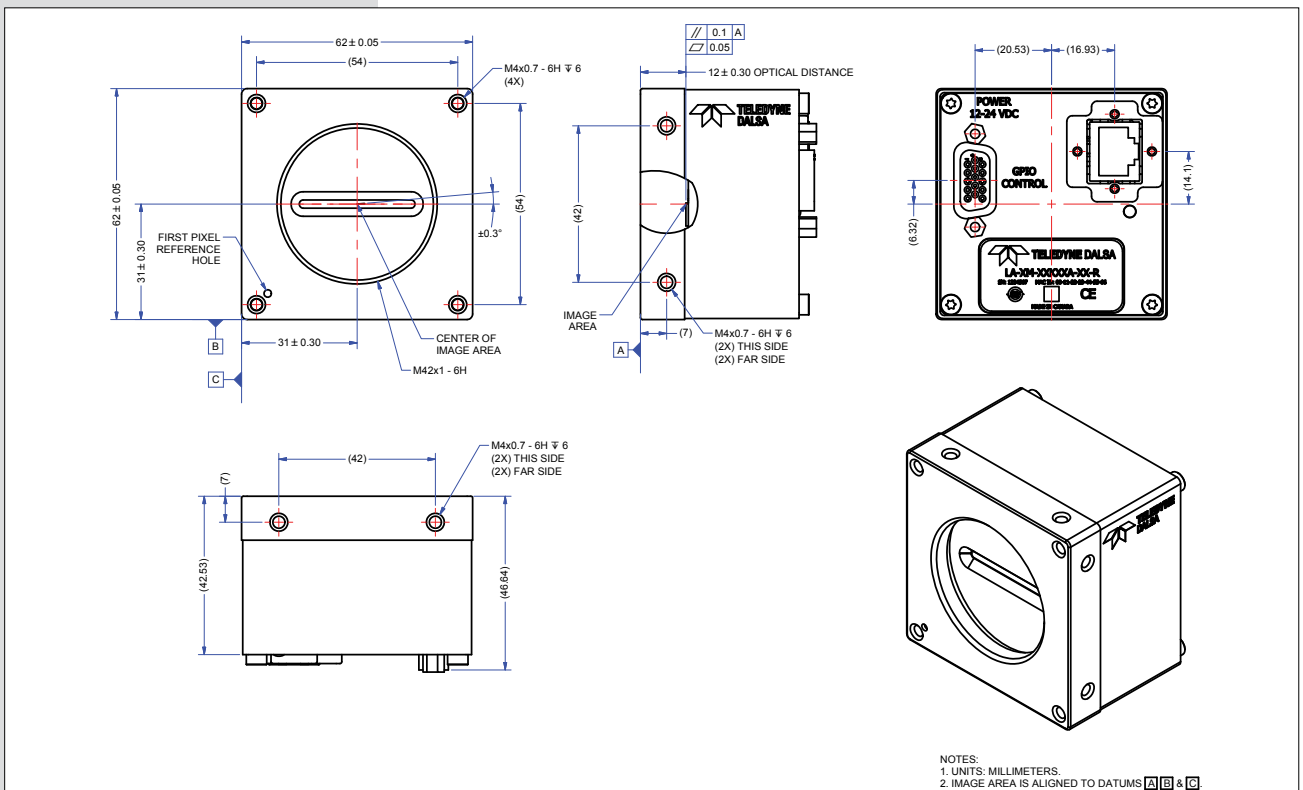
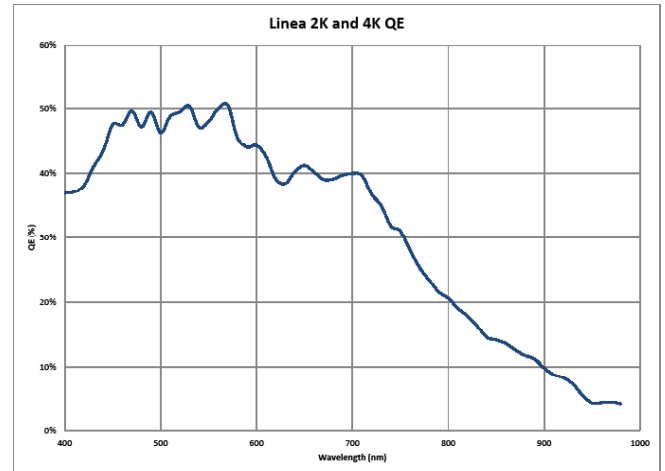
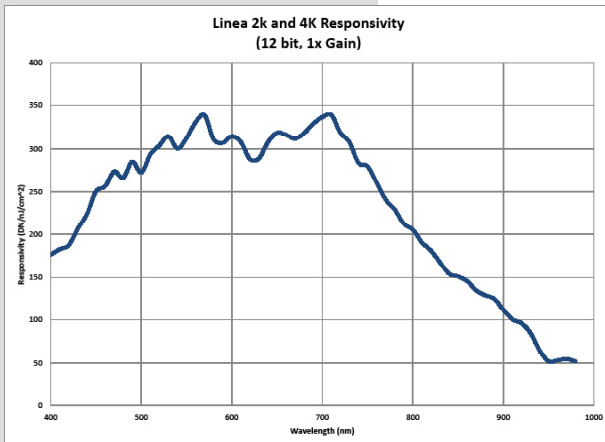
### Specifications

Resolution	2048 or 4096 pixels
Line Rate	52 kHz, maximum—2k models without TurboDrive 26 kHz, maximum—4k models without TurboDrive (80 kHz, maximum—both models with TurboDrive)
Pixel Size	7.04 μm x 7.04 μm
Data Format	8 or 12 bit selectable
Output	Gigabit Ethernet
Lens Mount	M42 x 1, C and F-mount adapters available
Responsivity	320 DN / (nJ / cm <sup>2</sup> ) in 12 bit at 1x gain
Dynamic Range	> 60 dB
Nominal Gain Range	1x to 10x
Size	62 mm x 62 mm x 46.7 mm
Mass	< 280 g
Operating Temp	0 °C to 65 °C (front plate)
Power	12 V to 24 V DC, HD15 connector (shared with I / O)
Power Dissipation	< 6 W
I / O	HD15 connector
Software Platform	GigE Vision v1.2 compliant Teledyne DALSA Sopera LT or 3rd party GenICam™ compliant SDK

Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
LA-GM-02K08A-00-R	2048	52 kHz without TurboDrive (80 kHz with TurboDrive)	7.04 μm x 7.04 μm
LA-GM-04K08A-00-R	4096	26 kHz without TurboDrive (80 kHz with TurboDrive)	7.04 μm x 7.04 μm

# Linea 2K and 4K GigE Vision

Monochrome CMOS Line Scan Cameras



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# Linea 16K Camera Link

Monochrome CMOS Line Scan Cameras



## Key Features

- High speed: up to 48 kHz
- 16,384 pixel resolution
- Low cost and compact
- Camera Link™ interface

## Programmability

- Multiple regions of interest and areas 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
- Security systems
- High performance sorting systems
- Materials grading and inspection systems
- Web inspection
- General purpose machine vision

## Regulatory Compliance

- CE, FCC and RoHS

## High Performance, Low Cost

The new Linea™ 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 the most advanced CMOS line scan technology, the camera employs a 16k single line  $3.5 \mu\text{m} \times 3.5 \mu\text{m}$  pixel array at a 48 kHz maximum line rate. With excellent sensitivity and speed, Linea surpasses the requirements of demanding applications—such as materials grading and inspection, transportation safety, and general purpose machine vision.

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

GenICam™ compliant Linea is easy to set up and integrate using a GUI, such as Teledyne DALSA's Sopera™ camera configuration utility CamExpert.

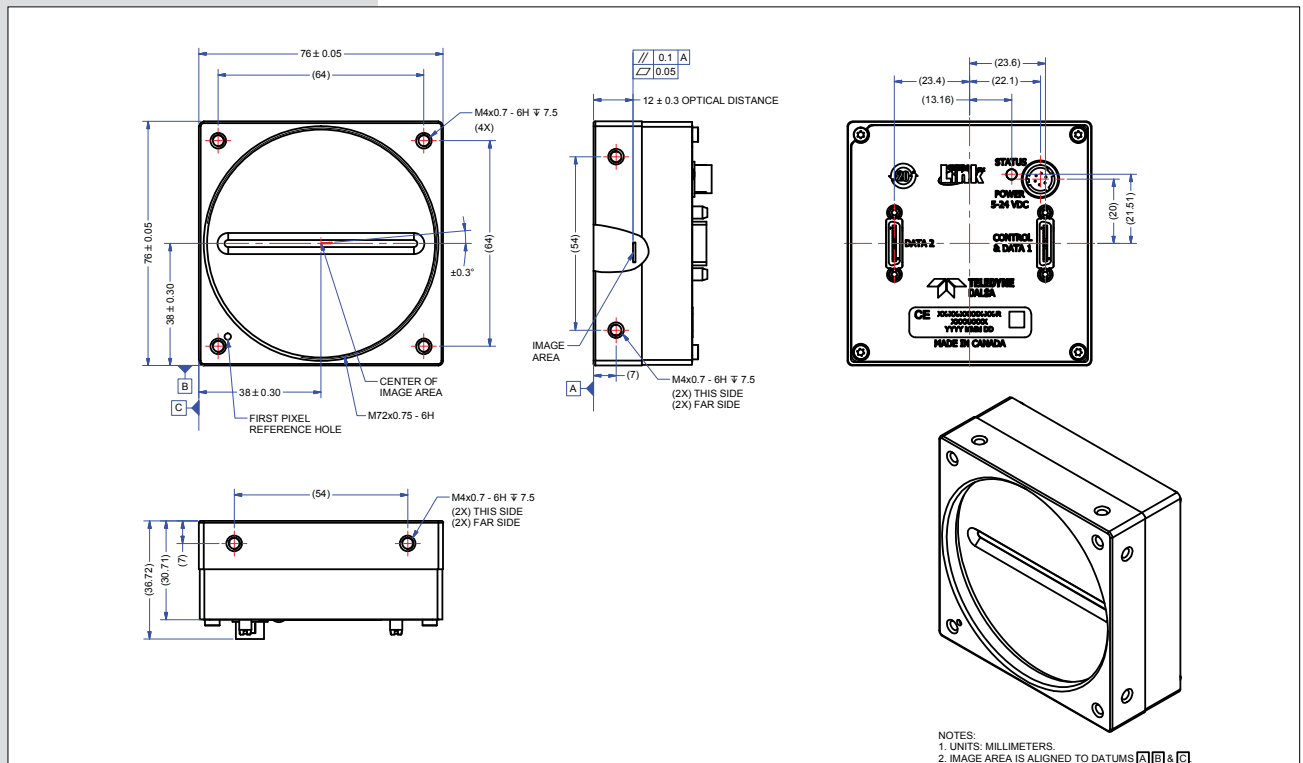
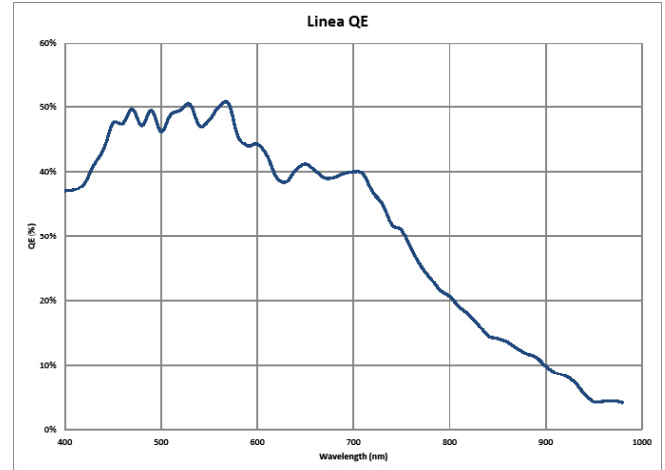
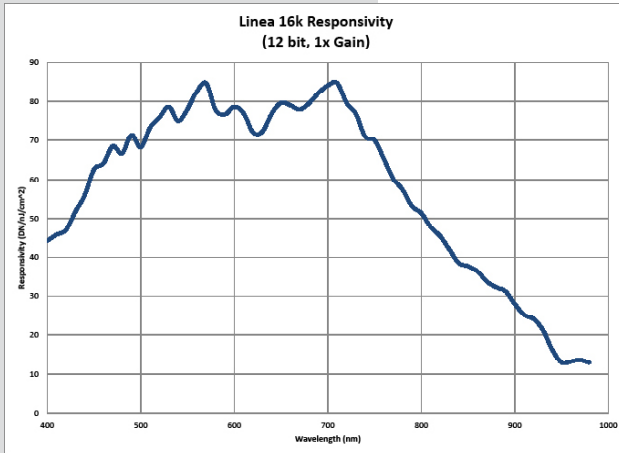
## Specifications

Resolution	16,384 pixels
Line Rate	48 kHz, maximum
Pixel Size	$3.5 \mu\text{m} \times 3.5 \mu\text{m}$
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	80 DN / (nJ / cm <sup>2</sup> ) in 12 bit @ 1x gain
Dynamic Range	> 60 dB
Nominal Gain Range	1x to 10x
Size	76.0 mm x 76.0 mm x 36.72 mm
Mass	< 360 g
Operating Temp	0 °C to +65 °C (front plate)
Power	+12 V to +24 V DC, Hirose 6-pin
Power Dissipation	< 11 W
Control & Data	SDR-26 mini Camera Link

Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
LA-CM-16K05A-00-R	16,384	48 kHz	$3.5 \mu\text{m} \times 3.5 \mu\text{m}$

# Linea 16K Camera Link

Monochrome CMOS Line Scan Cameras



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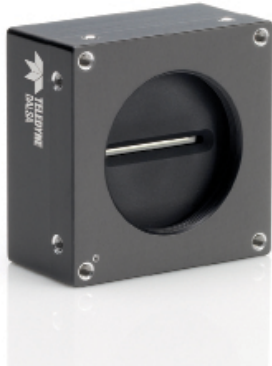
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# Linea 2K and 4K

Monochrome CMOS Line Scan Cameras



## Key Features

- High speed: up to 80 kHz
- 2048 or 4096 pixel resolution
- Low cost and compact

## Programmability

- Multiple regions of interest and areas of interest for calibration and data reduction
- 8 or 12 bit output, selectable
- Smart flat field and lens shading correction
- 8 programmable coefficient sets
- Flexible signalling and synchronization

## Typical Applications

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

## Regulatory Compliance

- CE, FCC and RoHS

## High Performance, Low Cost

The new Linea™ family of line scan cameras provides the uncompromising performance and rich feature-set found in Teledyne DALSA's high-end line scan cameras at an unprecedented price point.

Based on the most advanced CMOS line scan technology Linea employs a 2K or 4K single line  $7.04 \mu\text{m} \times 7.04 \mu\text{m}$  pixel array at an 80 kHz maximum line rate. With excellent sensitivity and speed, Linea surpasses the requirements of demanding applications—such as materials grading and inspection, transportation safety, and general purpose machine vision.

Linea is a compact, light weight and robust camera with many attractive features, including full-fledged flat-field correction, multiple ROI and AOI, smart triggers through programmable GPIO, multiple user configuration sets, and calibration coefficients for various lighting conditions.

GenICam™ compliant Linea is easy to set up and integrate using a GUI, such as Teledyne DALSA's Sopera™ camera configuration utility CamExpert.

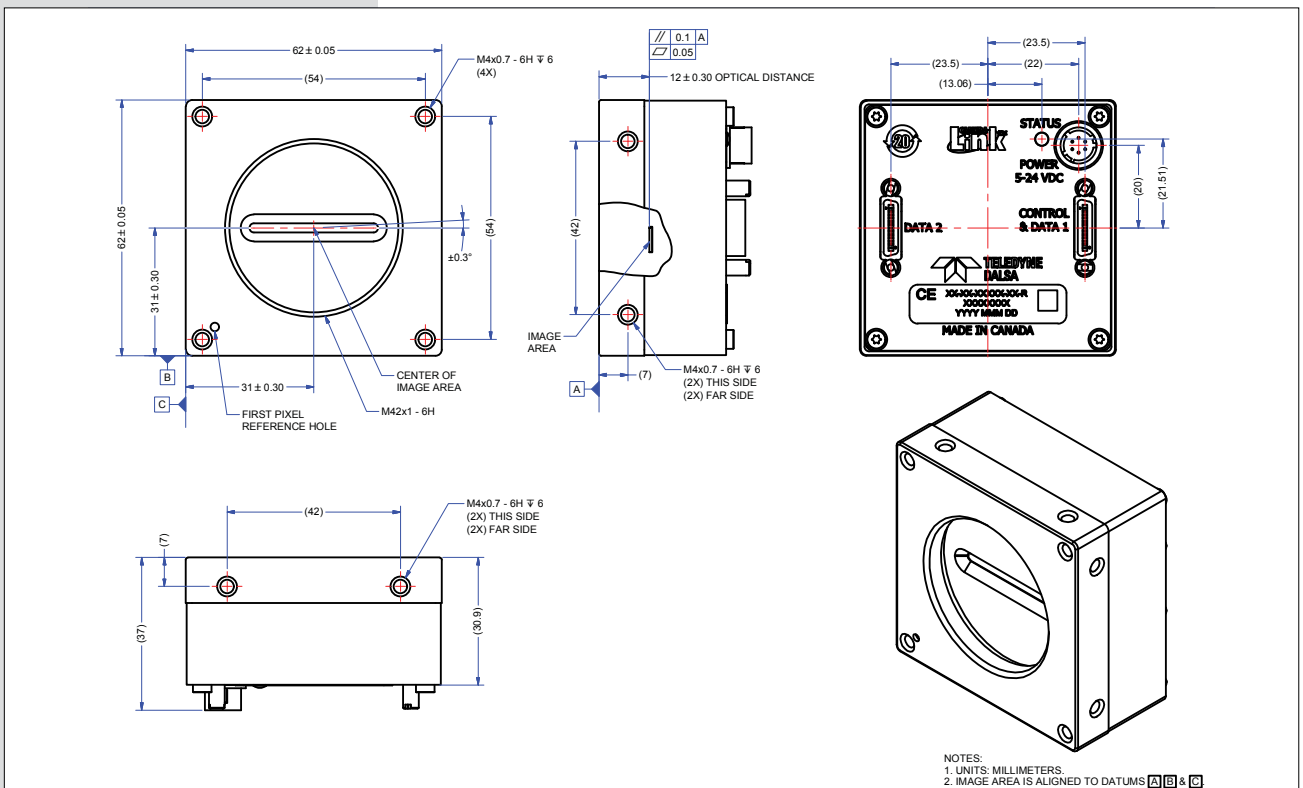
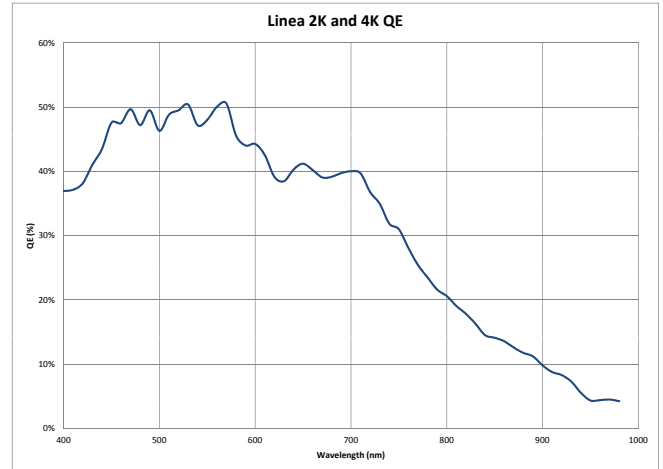
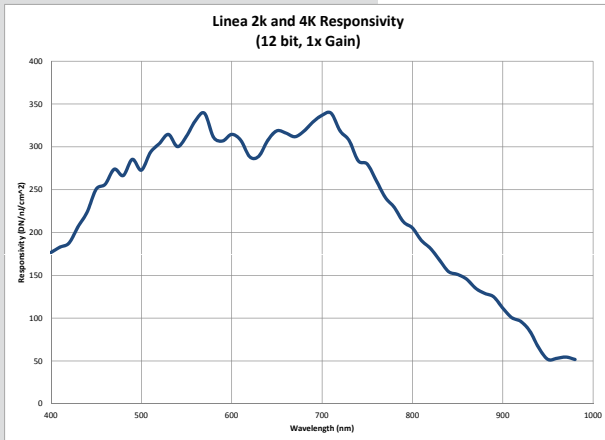
## Specifications

Resolution	2048 or 4096 pixels
Line Rate	80 kHz, maximum
Pixel Size	$7.04 \mu\text{m} \times 7.04 \mu\text{m}$
Data Format	8 or 12 bit selectable
Output	Base, Medium, and Full Camera Link
Lens Mount	M42 x 1, C and F-mount adapters available
Responsivity	$320 \text{ DN} / (\text{nJ} / \text{cm}^2)$ in 12 bit at 1x gain
Dynamic Range	> 60 dB
Nominal Gain Range	1x to 10x
Size	62 mm x 62 mm x 37 mm
Mass	< 270 g
Operating Temp	0 °C to +65 °C (front plate)
Power	+5 V to +24 V DC, Hirose 6-pin or PoCL
Power Dissipation	< 4.5 W
Control & Data	SDR-26 mini Camera Link

Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
LA-CM-02K08A-00-R	2048	80 kHz	$7.04 \mu\text{m} \times 7.04 \mu\text{m}$
LA-CM-04K08A-00-R	4096	80 kHz	$7.04 \mu\text{m} \times 7.04 \mu\text{m}$

# Linea 2K and 4K

## Monochrome CMOS Line Scan Cameras



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# Linea 8K Camera Link

Monochrome CMOS Line Scan Cameras



## High Performance, Low Cost

The new Linea™ 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 the most advanced CMOS line scan technology, the Linea camera employs an 8k single line  $7.04 \mu\text{m} \times 7.04 \mu\text{m}$  pixel array at an 80 kHz maximum line rate. With excellent sensitivity and speed, Linea surpasses the requirements of demanding applications—such as materials grading and inspection, transportation safety, and general purpose machine vision.

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

GenICam™ compliant Linea is easy to set up and integrate using a GUI, such as Teledyne DALSA's Sopera™ camera configuration utility CamExpert.

### Key Features

- High speed: up to 80 kHz
- 8192 pixel resolution
- Low cost and compact
- Camera Link™ interface

### Programmability

- Multiple regions of interest and areas of interest for calibration and data reduction
- 8 or 12 bit output, selectable
- Smart flat field and lens shading correction
- 8 programmable coefficient sets
- Flexible signalling and synchronization

### Typical Applications

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

### Regulatory Compliance

- CE, FCC and RoHS

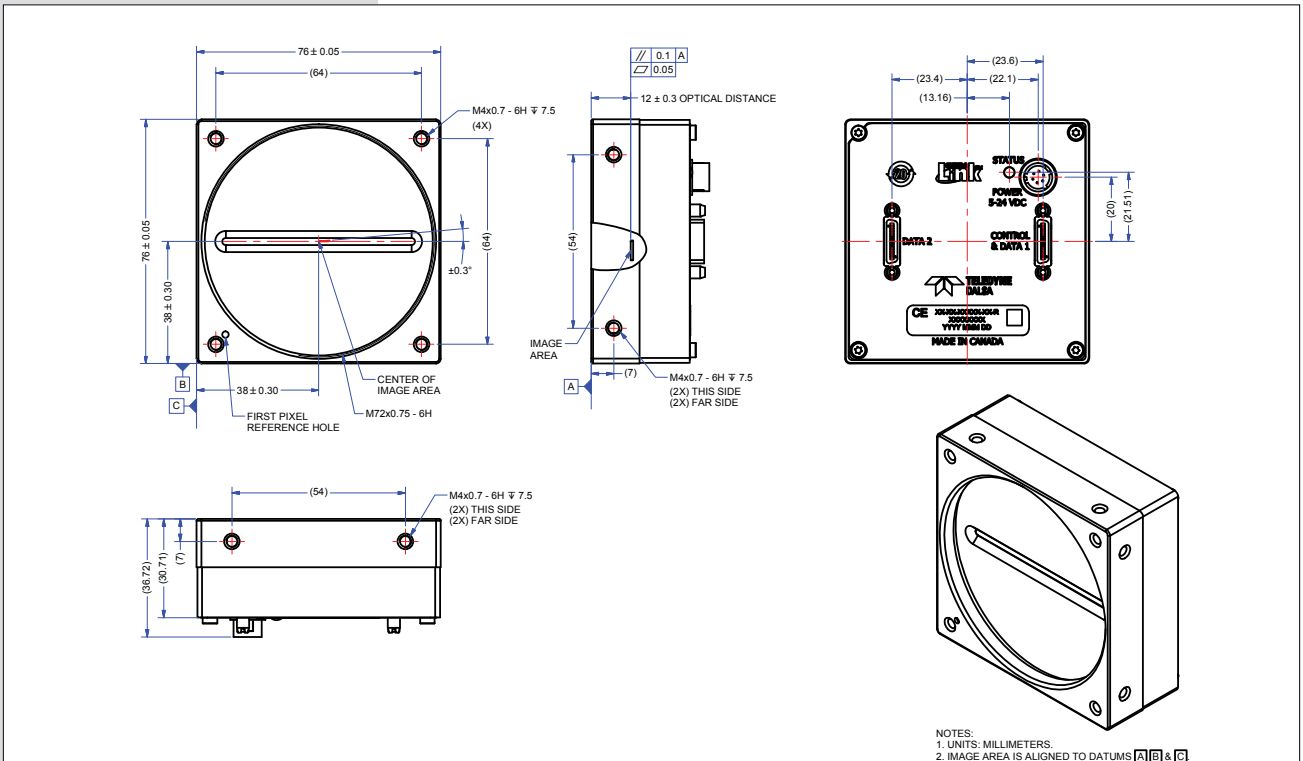
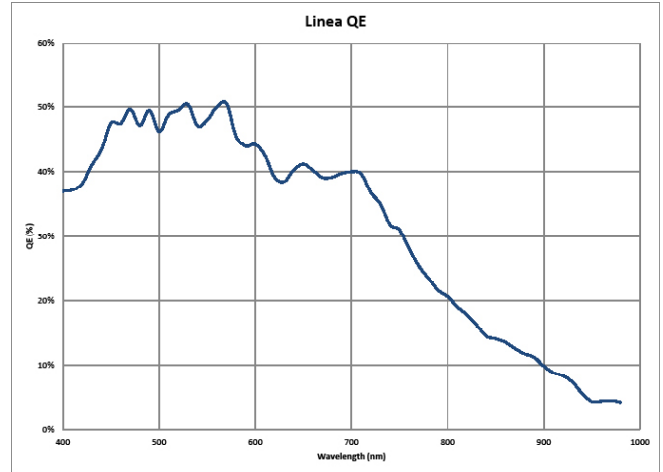
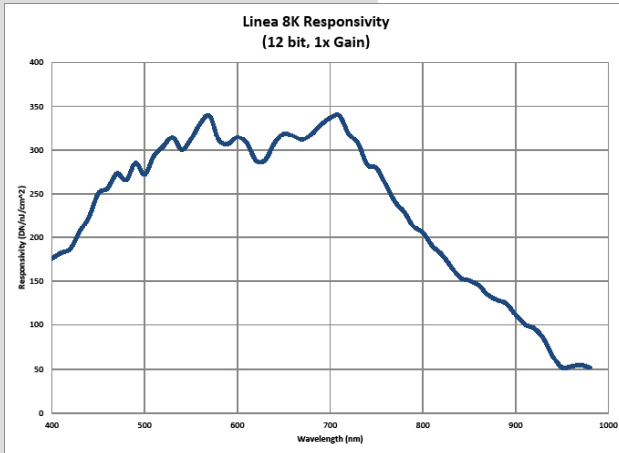
### Specifications

Resolution	8192 pixels
Line Rate	80 kHz, maximum
Pixel Size	$7.04 \mu\text{m} \times 7.04 \mu\text{m}$
Data Format	8 or 12 bit selectable
Output	Base, Medium, and Full Camera Link
Lens Mount	M72 x 0.75, F-mount adapter available
Responsivity	320 DN / (nJ / cm <sup>2</sup> ) in 12 bit @ 1x gain
Dynamic Range	> 60 dB
Nominal Gain Range	1x to 10x
Size	76.0 mm x 76.0 mm x 36.72 mm
Mass	< 310 g
Operating Temp	0 °C to +65 °C (front plate)
Power	+5 V to +24 V DC, Hirose 6-pin
Power Dissipation	< 8 W
Control & Data	SDR-26 mini Camera Link

Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
LA-CM-08K08A-00-R	8192	80 kHz	$7.04 \mu\text{m} \times 7.04 \mu\text{m}$

# Linea 8K Camera Link

Monochrome CMOS Line Scan Cameras



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# Linea 8K GigE Vision

Monochrome CMOS Line Scan Cameras



## High Performance GigE Camera with TurboDrive

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

Based on the most advanced CMOS line scan technology, the Linea GigE cameras employ an 8k single line 7.04 μm x 7.04 μm pixel array. With excellent sensitivity and speed, Linea surpasses the requirements of demanding applications—such as materials grading and inspection, transportation safety, and general purpose machine vision.

The Linea cameras come complete with many attractive features, including Cycling Mode, configurable GPIO ports, Burst Mode and Meta Data per each line. Like the Camera Link models, the GigE models provide multiple ROI and AOI, and multiple user and calibration coefficients sets for various lighting conditions.

Our proprietary, patent pending, TurboDrive™ technology delivers high speed data transfer capability that breaks through the GigE limit. Depending on the application, speeds up to 45 kHz are achievable, as TurboDrive boosts data transfer 2 or 3 times faster than standard GigE Vision™ speeds – with no loss of image quality.

### Key Features

- Low cost and compact
- Cycling mode
- Burst mode
- Meta data per each line

### Programmability

- Multiple regions of interest and areas of interest for calibration and data reduction
- 8 or 12 bit output, selectable
- Smart flat field and lens shading correction
- 4 programmable coefficient sets
- Configurable GPIO ports, timers and counters

### Typical Applications

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

### Regulatory Compliance

- CE, FCC and RoHS

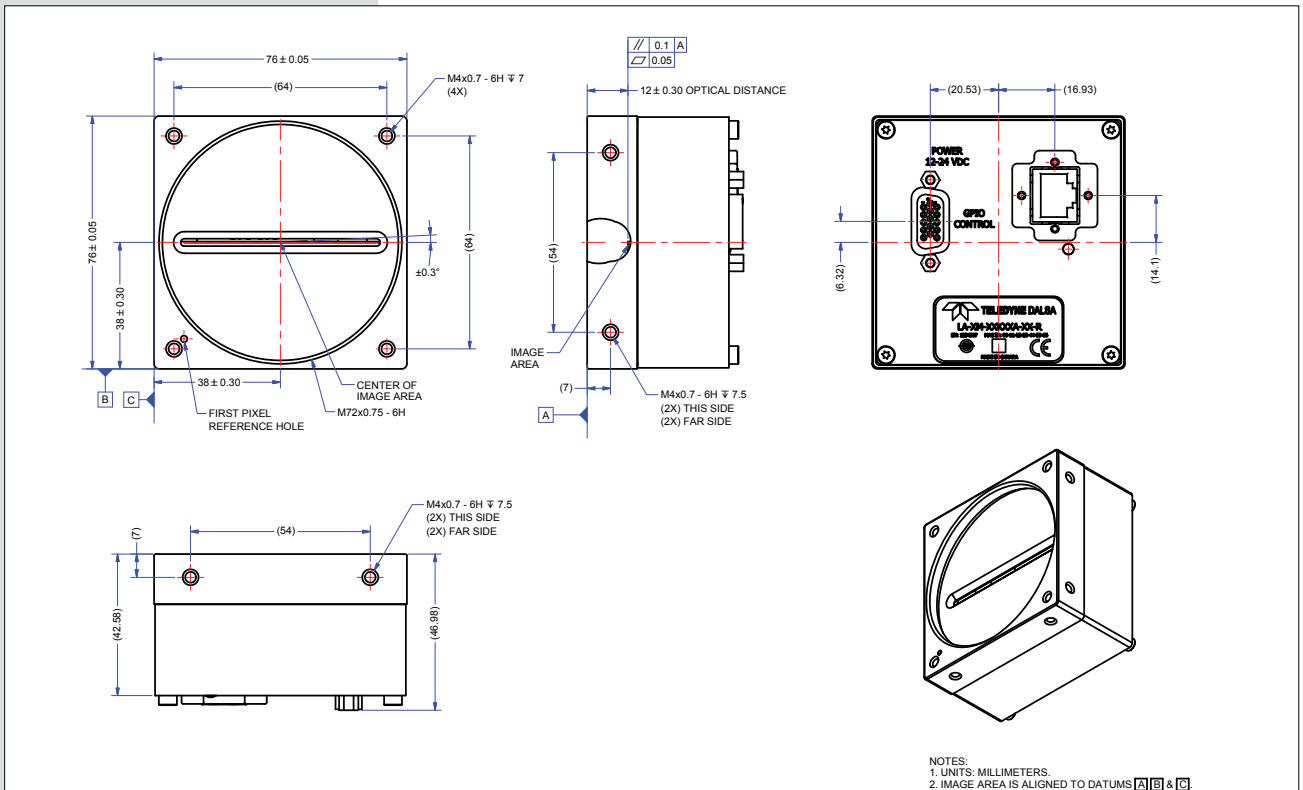
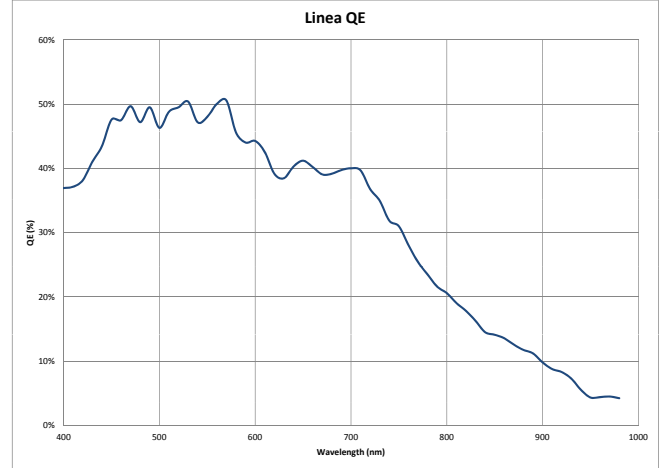
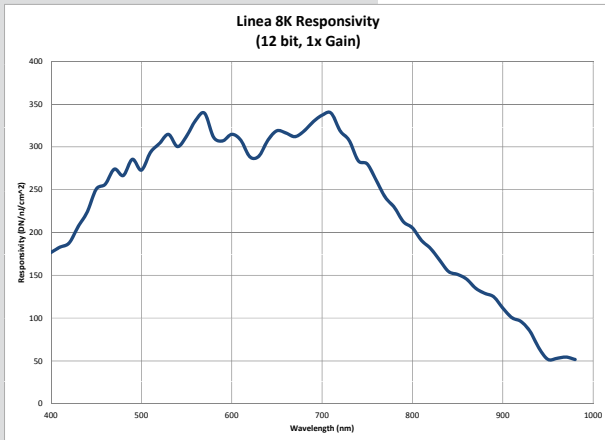
### Specifications

Resolution	8192 pixels
Line Rate	13 kHz, maximum—without TurboDrive (45 kHz, maximum—with TurboDrive)
Pixel Size	7.04 μm x 7.04 μm
Data Format	8 or 12 bit selectable
Output	Gigabit Ethernet
Lens Mount	M72 x 0.75, F-mount adapters available
Responsivity	340 DN / (nJ / cm <sup>2</sup> ) in 12 bit at 1x gain
Dynamic Range	> 60 dB
Nominal Gain Range	1x to 10x
Size	76.0 mm x 76.0 mm x 46.7 mm
Mass	< 380 g
Operating Temp	0 °C to 65 °C (front plate)
Power	12 V to 24 V DC, HD15 connector (shared with I / O)
Power Dissipation	< 7.5 W
I / O	HD15 connector
Software Platform	GigE Vision v1.2 compliant Teledyne DALSA Sopera LT or 3rd party GenICam™ compliant SDK

Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
LA-GM-08K08A-00-R	8192	13 kHz without TurboDrive (45 kHz with TurboDrive)	7.04 μm x 7.04 μm

# Linea 8K GigE Vision

Monochrome CMOS Line Scan Cameras



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# Linea Color 4K Camera Link

CMOS Line Scan Cameras



## 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 4k, 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 and AOI, 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 Sopera™ camera configuration utility CamExpert.

### Key Features

- High speed: up to 48 kHz
- 4096 x 2 pixel resolution
- Low cost and compact
- Camera Link interface

### Programmability

- Multiple regions of interest and areas 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

### Specifications

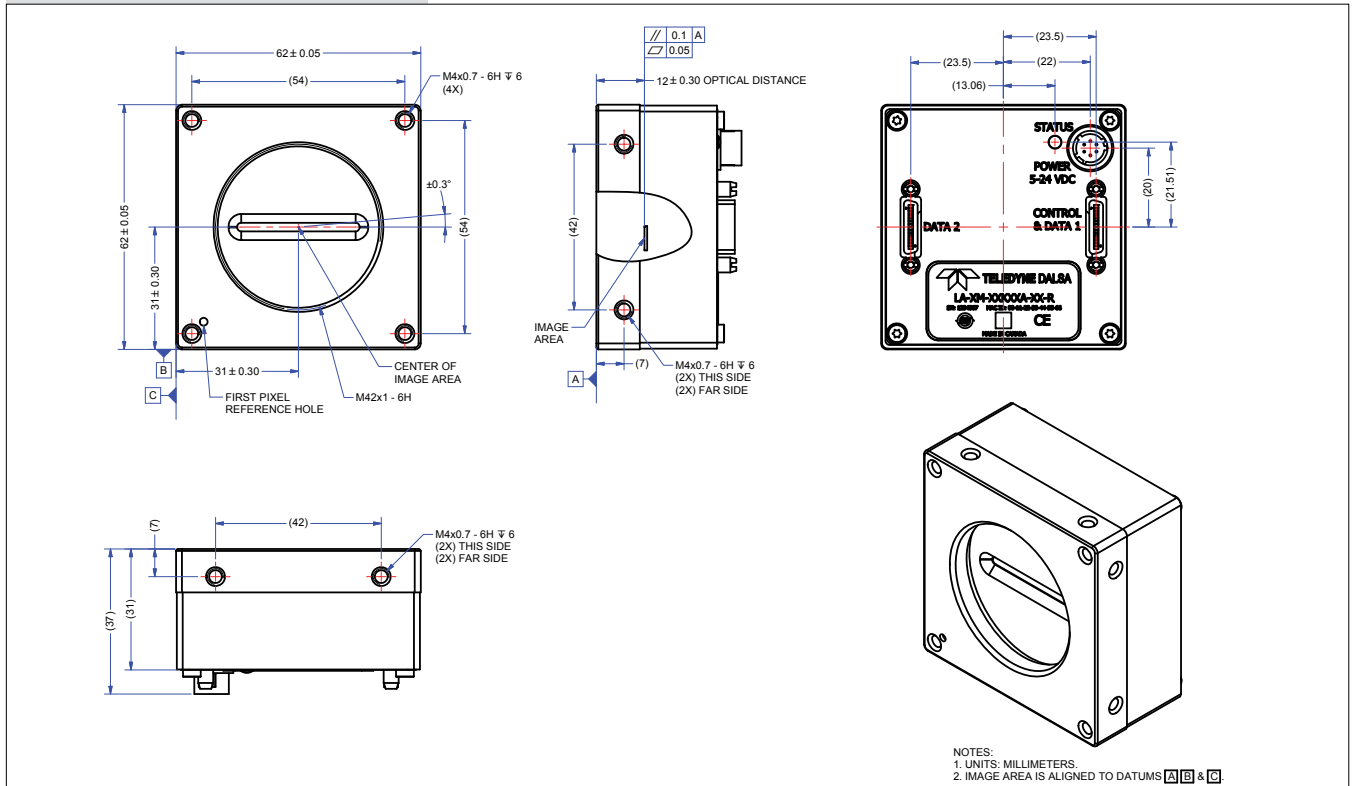
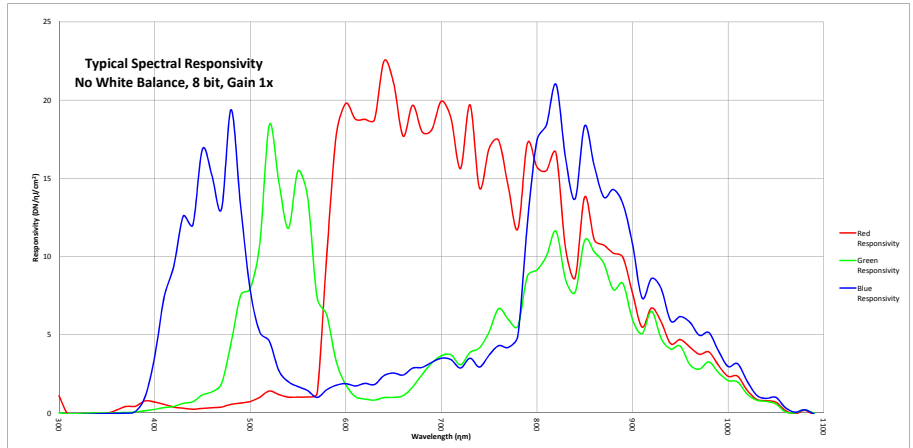
Resolution	4096 x 2 pixels
Line Rate	48 kHz, maximum
Pixel Size	7.04 μm x 7.04 μm
Data Format	8 or 12 bit selectable
Output	Base, Medium, Full, and Deca Camera Link
Lens Mount	M42 x 1, C and F-mount adapters available
Responsivity	See graph
Dynamic Range	> 60 dB
Nominal Gain Range	1x to 10x
Size	62.0 mm x 62.0 mm x 37.0 mm
Mass	< 190 g
Operating Temp	0 °C to +65 °C (front plate)
Power	12 V to 24 V DC, Hirose 6-pin
Power Dissipation	8 W
Control & Data	SDR-26 mini Camera Link

Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
LA-CC-04K05B-00-R	4096 x 2	48 kHz	7.04 μm x 7.04 μm



# Linea Color 4K Camera Link

CMOS Line Scan Cameras



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# Linea Color 8K Camera Link

CMOS Line Scan Cameras



## 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 an 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 and AOI, 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 Sopera™ camera configuration utility CamExpert.

### Key Features

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

### Programmability

- Multiple regions of interest and areas 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

### Specifications

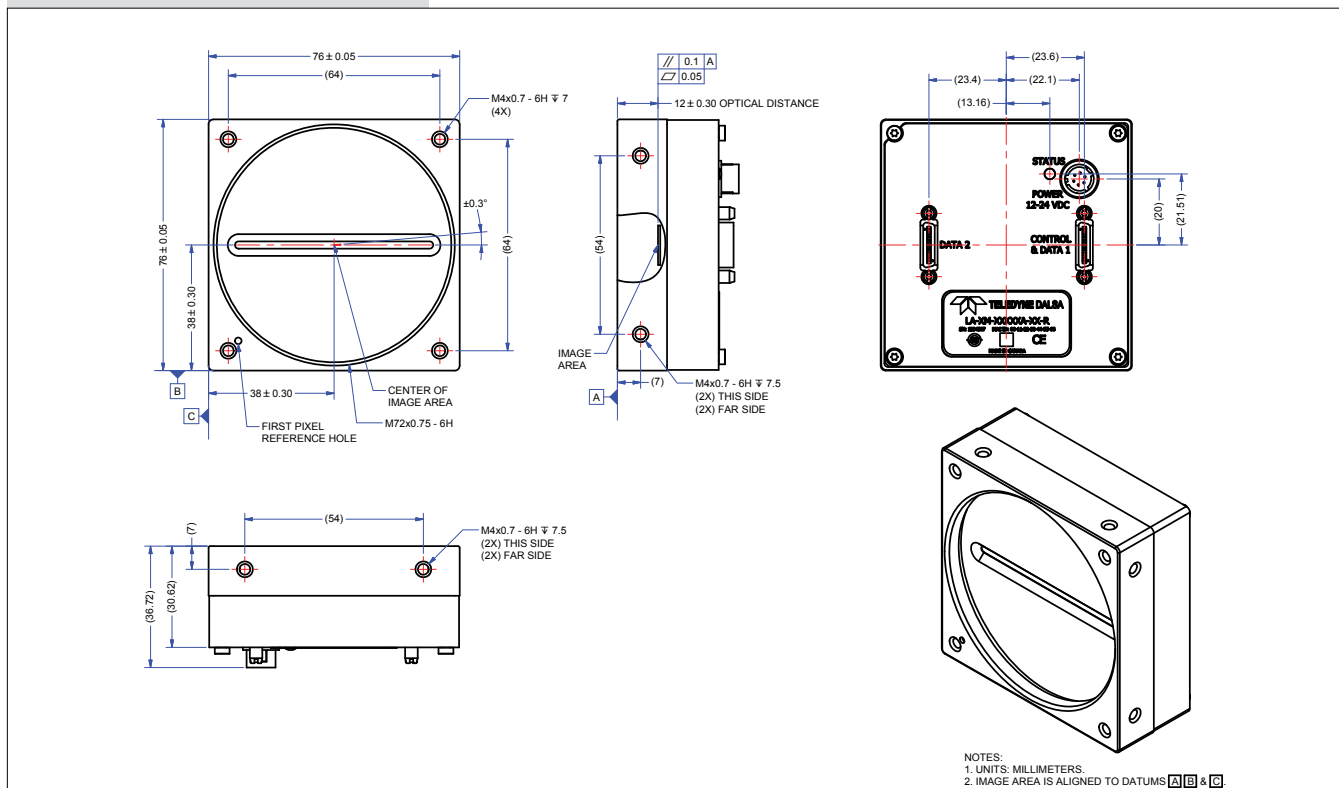
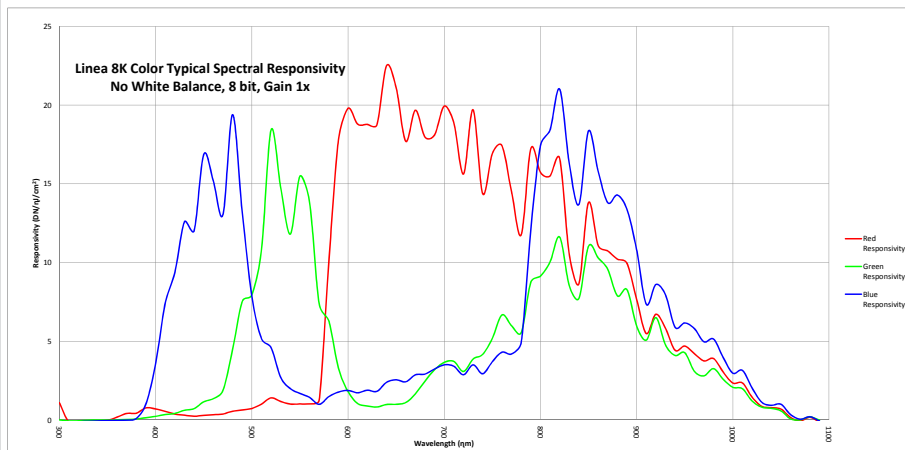
Resolution	8192 x 2 pixels
Line Rate	48 kHz, maximum
Pixel Size	7.04 μm x 7.04 μm
Data Format	8 or 12 bit selectable
Output	Base, Medium, Full, and Deca Camera Link
Lens Mount	M72 x 0.75, F-mount adapter available
Responsivity	See graph
Dynamic Range	> 60 dB
Nominal Gain Range	10x
Size	76.0 mm x 76.0 mm x 36.72 mm
Mass	< 310 g
Operating Temp	0 °C to +65 °C (front plate)
Power	12 V to 24 V DC, Hirose 6-pin
Power Dissipation	11 W
Control & Data	SDR-26 mini Camera Link

Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
LA-CC-08K05B-00-R	8192 x 2	48 kHz	7.04 μm x 7.04 μm



# Linea Color 8K Camera Link

CMOS Line Scan Cameras



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