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**TECHSPEC® 3.5mm**



3.5mm Cr Series Fixed Focal Length Lens



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1

€485<sup>.00</sup>

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Volume Pricing

Qty 1+ €485,00 each

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Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- Zemax
- eDrawing:eprt
- EO Spec Sheet

General

**Product Family:** Cr Series

**Type:** Fixed Focal Length Lens

Physical & Mechanical Properties

**Iris Option:** Fixed

**Length (mm):** 39.01

**Outer Diameter (mm):** 50

**Weight (g):** 120

**Diameter (mm):** 33.80

Optical Properties

**Horizontal Field of View @ Max Sensor Format:** 41.2mm - 102.8°

**Horizontal Field of View, 1/1.8" Sensor:** 41.2mm - 102.8°

**Horizontal Field of View, 1/2" Sensor:** 29.5mm - 87.2°

**Horizontal Field of View, 1/3" Sensor:** 23.0mm - 74.4°

**Horizontal Field of View, 1/4" Sensor:** 16.3mm - 57.4°

**Maximum Image Circle (mm):** 9.00

**Number of Elements (Groups):** 8 (7)

**Focal Length FL (mm):** 3.50

**Working Distance (mm):** 0 - ∞

**Aperture (f/#):** f/11

**Coating:** 425 - 675nm BBAR

**Maximum Distortion (%):** -20.95

**Lens Wavelength Range:** VIS

Sensor

**Maximum Sensor Format:** 1/1.8"

**Pixel Size (µm):** 2.74

## Threading & Mounting

**Filter Thread:** M105 x 1.00 (Male)

**Front Thread:** M50.0 x 0.5 (Male)

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## Environmental & Durability Factors

**Storage Temperature (°C):** -20 to +60

**Type of Ruggedization:** Stabilized (Robust Mechanics for Shock and Vibration)

## Regulatory Compliance

**Certificate of Conformance:** [View](#)

## Product Details

- Up to 2/3", C-Mount Lens
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Ruggedized (Cr) Designs (50g Shock) of our C Series Lens
- 3.5mm to 50mm Focal Length
- **Instrumentation (Ci) Versions** Also Available

TECHSPEC® Compact Ruggedized (Cr) Series Fixed Focal Length Lenses provide Stabilized Ruggedization, protecting the lens from damage while maintaining optical pointing and positioning after shock and vibration. All individual lens elements are glued in place to reduce object shift on the image. In addition, these lenses feature robust mechanics with a simplified focus and stainless steel locking C-Mount clamp. TECHSPEC® Cr Series Fixed Focal Length Lenses are ideal for calibrated imaging systems such as measurement and gauging, 3D stereo vision, robotics and sensing, autonomous vehicles, and object tracking. The object to image mapping is maintained even after heavy shock and vibration; if the center of the object maps onto the center pixel, it will always map to that same center pixel.

These lenses won the **1<sup>st</sup> place 2018 Inspect Award** and the **Silver Level 2018 Innovators Award**.

**Note:** To learn more about ruggedization, visit our [Ruggedization Resource Webpage](#).

Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety of optomechanical solutions to meet your application requirements:

- **C Series:** Features locking cam focus and iris adjustment and is the most adjustable version of these optical designs; they are the typical high quality machine vision lenses. Also available with a **VIS-NIR Broadband Anti-Reflection (BBAR) Coating**.
- **Ci Series:** Simplified mechanics featuring fixed apertures with compact housing. **Industrial Ruggedization** for reduced size, cost, and locked focus.
- **Cr Series:** All optics glued in place and a locking C-clamp focus ring. **Stabilized Ruggedization** for reduced pixel shift and improved focus stability.
- **Cx Series:** Modular, flexible mechanics allows lenses to be taken apart for easy integration of accessories such as liquid lenses, apertures, and more.
- **Liquid Lens Cx Series:** Designed with an integrated liquid lens for quick autofocus.
- **Cw Series:** Waterproof, designed to meet IEC **Ingress Protection** Code IPX7 and IPX9K.

## Technical Information

*#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Distortion Plot*

*#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Relative Illumination Plot*

*#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Working Distance versus Field of View Plot*

*#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 75mm Working Distance, f11*

*#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Depth of Field Plot, 75mm Working Distance, f11*

*#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f11*

*#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Depth of Field Plot, 150mm Working Distance, f11*

## Accessories





Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

|                       | Title                                   | Price | Buy   |
|-----------------------|---|-------|---|
| <a href="#">MORE+</a> | Filter Adapter M105 x 1<br>x 0.5 (Femal |       | 20+ In Stock <input type="text" value="1"/> |

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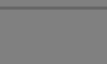
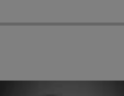

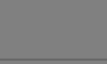
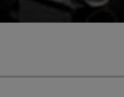





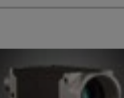

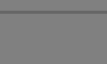
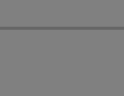







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### Frequently Purchased Together

|  |   |   |  |
|--|---|---|--|
|  <p>#34-960 - M2020, 1/1.8" Monochrome, DALSA Genie Nano GigE PoE Camera<br/><b>€605,00</b></p> <p>Qty </p> |  <p>#64-105 - 1.67mm FL CS-Mount, Manual Iris, Wide Angle Lens<br/><b>€558,00</b></p> <p>Qty </p> |  <p>#86-770 - Type-A to Micro-B, USB 3.1 Locking Cable, 3m<br/><b>€25,00</b></p> <p>Qty </p> |  <p>#88-064 - Blackfly S/Blackfly 6-pin GPIO Hirose Connector Cable, 1m<br/><b>€38,00</b></p> <p>Qty </p> |
|--|---|---|--|

### Compatible Cameras

















































|                       | Title   | Type              | Compare | Stock Number                   | Price                    | Buy                                       |
|-----------------------|---|-------------------|---------|--------------------------------|--------------------------|---|
| <a href="#">MORE+</a> | LUCID Vision Labs Phoenix™ PHX023S-CC, Sony IMX392, 2.3MP, Color Camera                     | Color Camera      |         | #13-662                        | €371,00<br>Request Quote | CONTACT US <input type="text" value="1"/> |
| <a href="#">MORE+</a> | LUCID Vision Labs Phoenix™ PHX023S-CC-IX, Sony IMX392, 2.3MP, Color Camera                  | Color Camera      |         | #13-668                        | €371,00<br>Request Quote | CONTACT US <input type="text" value="1"/> |
| <a href="#">MORE+</a> | LUCID Vision Labs Phoenix™ PHX023S-MC, Sony IMX392, 2.3MP, Monochrome Camera                | Monochrome Camera |         | #13-661                        | €371,00<br>Request Quote | CONTACT US <input type="text" value="1"/> |
| <a href="#">MORE+</a> | LUCID Vision Labs Phoenix™ PHX023S-MC-IX, Sony IMX392, 2.3MP, Monochrome Camera             | Monochrome Camera |         | #13-667                        | €371,00<br>Request Quote | CONTACT US <input type="text" value="1"/> |
| <a href="#">MORE+</a> | LUCID Vision Labs Phoenix™ PHX032S-CC, Sony IMX265, 3.2 MP, Color Camera (Recertified 05-P) | Color Camera      |         | #11-465-RCD-05P<br>RECERTIFIED | €375,20<br>Request Quote | 1 In Stock <input type="text" value="1"/> |
| <a href="#">MORE+</a> | Allied Vision Alvium 1800 U-240m, 1/2.3" 2.35MP C-Mount, USB 3.0 Monochrome Camera          | Monochrome Camera |         | #17-085                        | €380,00<br>Request Quote | CONTACT US <input type="text" value="1"/> |

















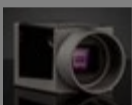























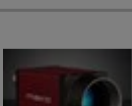





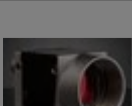

|   | Title   | Type              | Compare | Stock Number | Price                    | Buy   |
|---|---|-------------------|---------|--------------|--------------------------|---|
|    |  Allied Vision Alvium 1800 U-240c, 1/2.3" 2.35MP Mount, USB 3.1 Color Camera             |                   |         |              |                          | 1 In Stock <input type="text" value="1"/>    |
|    |  Basler ace2 a2A1920-160umBAS Monochrome USB3 Basic Camera   | Camera            |         |              | Request Quote            | 3 In Stock <input type="text" value="1"/>    |
|    |  Basler ace2 a2A1920-51gmBAS Monochrome GigE Basic Camera  | Monochrome Camera |         | #16-593      | €402,00<br>Request Quote | 3 In Stock <input type="text" value="1"/>    |
|    |  BFS-PGE-13Y3C-C PoE GigE Blackfly® S, Color Camera  | Color Camera      |         | #36-559      | €415,00<br>Request Quote | 4 In Stock <input type="text" value="1"/>    |
|    |  BFS-PGE-13Y3M-C PoE GigE Blackfly® S, Monochrome Camera   | Monochrome Camera |         | #36-558      | €415,00<br>Request Quote | 2 In Stock <input type="text" value="1"/>    |
|  |  BFS-U3-23S3C-C USB 3.1 Blackfly® S, Color Camera  | Color Camera      |         | #12-748      | €421,00<br>Request Quote | CONTACT US <input type="text" value="1"/>  |
|  |  BFS-PGE-23S3C-C PoE GigE Blackfly® S, Color Camera  | Color Camera      |         | #12-754      | €421,00<br>Request Quote | 4 In Stock <input type="text" value="1"/>  |
|  |  BFS-U3-23S3M-C USB 3.1 Blackfly® S, Monochrome Camera   | Monochrome Camera |         | #12-747      | €421,00<br>Request Quote | CONTACT US <input type="text" value="1"/>  |
|  |  BFS-PGE-23S3M-C PoE GigE Blackfly® S, Monochrome Camera   | Monochrome Camera |         | #12-753      | €421,00<br>Request Quote | 1 In Stock <input type="text" value="1"/>  |
|  |  LUCID Vision Labs Triton™ TRI023S-CC, Sony IMX392, 2.3MP, Color Camera  | Color Camera      |         | #13-714      | €422,00<br>Request Quote | 3 In Stock <input type="text" value="1"/>  |
|  |  LUCID Vision Labs Triton™ TRI023S-MC, Sony IMX392, 2.3MP, Monochrome Camera   | Monochrome Camera |         | #13-713      | €422,00<br>Request Quote | CONTACT US <input type="text" value="1"/>  |
|  |  Basler ace2 a2A1920-51gcBAS Color GigE Basic Camera   | Color Camera      |         | #16-594      | €424,00<br>Request Quote | CONTACT US <input type="text" value="1"/>  |
|  |  Allied Vision Alvium G1-240m, 1/2.3" 2.4MP C-Mount, GigE PoE Monochrome Camera | Monochrome Camera |         | #23-543      | €430,00<br>Request Quote | CONTACT US <input type="text" value="1"/>  |
|  |  Basler ace2 a2A1920-160ucBAS Color USB3 Basic Camera  | Color Camera      |         | #16-618      | €435,00<br>Request Quote | CONTACT US <input type="text" value="1"/>  |
|  |  Allied Vision Alvium G1-240c, 1/2.3" 2.4MP C-Mount, GigE PoE Color Camera           | Color Camera      |         | #23-544      | €440,00<br>Request Quote | 1 In Stock <input type="text" value="1"/>  |
|  |  LUCID Vision Labs Phoenix™ PHX032S-CC, Sony   | Color Camera      |         | #11-465      | €469,00<br>Request Quote | 4 In Stock <input type="text" value="1"/>  |















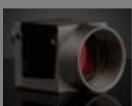



















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|--|---|-------------------|---------|--------------|--|------------------------------|
|  | IMX265, 3.2 MP, Color Camera  |                   |         |              |  |                              |
| <a href="#">MORE+</a>  | LUCID Vision Labs Phoenix™ PHX032S-CC-1 Sony IMX265, 3.2 MP, Color Camera                           |                   |         |              |  | <a href="#">CONTACT US</a> 1 |
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| <a href="#">MORE+</a>  | LUCID Vision Labs Phoenix™ PHX032S-MC, Sony IMX265, 3.2 MP, Monochrome Camera                       | Monochrome Camera |         | #11-464      | €469,00<br><a href="#">Request Quote</a> | 2 In Stock 1                 |
| <a href="#">MORE+</a>  | LUCID Vision Labs Phoenix™ PHX032S-MC-IX, Sony IMX265, 3.2 MP, Monochrome Camera                    | Monochrome Camera |         | #13-677      | €469,00<br><a href="#">Request Quote</a> | <a href="#">CONTACT US</a> 1 |
| <a href="#">MORE+</a>  | BFS-U3-13Y3C-C USB 3.1 Blackfly® S, Color Camera  | Color Camera      |         | #36-452      | €480,00<br><a href="#">Request Quote</a> | 3 In Stock 1                 |
| <a href="#">MORE+</a>  | BFS-U3-13Y3M-C USB 3.1 Blackfly® S, Monochrome Camera   | Monochrome Camera |         | #36-451      | €480,00<br><a href="#">Request Quote</a> | 3 In Stock 1                 |
| <a href="#">MORE+</a>  | BFS-PGE-14Y3M-C. PoE GigE Blackfly® S, Monochrome Camera  | Monochrome Camera |         | #22-074      | €480,00<br><a href="#">Request Quote</a> | <a href="#">CONTACT US</a> 1 |
| <a href="#">MORE+</a>  | Basler ace acA1300-200um Monochrome USB 3.0 Camera  | Monochrome Camera |         | #33-978      | €510,00<br><a href="#">Request Quote</a> | <a href="#">CONTACT US</a> 1 |
| <a href="#">MORE+</a>  | Basler ace acA1300-75gm Monochrome GigE Camera  | Monochrome Camera |         | #33-986      | €510,00<br><a href="#">Request Quote</a> | <a href="#">CONTACT US</a> 1 |
| <a href="#">MORE+</a>  | LUCID Vision Labs Triton™ TRI032S-CC, Sony IMX265, 3.2MP, Color Camera                              | Color Camera      |         | #13-716      | €520,00<br><a href="#">Request Quote</a> | 4 In Stock 1                 |
| <a href="#">MORE+</a>  | LUCID Vision Labs Triton™ TRI032S-MC, Sony IMX265, 3.2MP, Monochrome Camera                         | Monochrome Camera |         | #13-715      | €520,00<br><a href="#">Request Quote</a> | <a href="#">CONTACT US</a> 1 |
| <a href="#">MORE+</a>  | Allied Vision Alvium 1800 U-319m, 1/1.8" 3.2MP C-Mount, USB 3.0 Monochrome Camera (Partial Housing) | Monochrome Camera |         | #14-875      | €520,00<br><a href="#">Request Quote</a> | <a href="#">CONTACT US</a> 1 |
| <a href="#">MORE+</a>  | Allied Vision Alvium 1800 U-319c, 1/1.8" 3.2MP C-Mount, USB 3.0 Color Camera (Partial Housing)      | Color Camera      |         | #14-876      | €530,00<br><a href="#">Request Quote</a> | <a href="#">CONTACT US</a> 1 |
| <a href="#">MORE+</a>  | Allied Vision Alvium 1800 U-319m, 1/1.8" 3.2MP C-Mount, USB 3.0 Monochrome Camera                   | Monochrome Camera |         | #14-871      | €530,00<br><a href="#">Request Quote</a> | 20+ In Stock 1               |

























|   | Title  | Type              | Compare | Stock Number | Price                                    | Buy   |
|---|--|-------------------|---------|--------------|--|---|
|    | <br>Allied Vision Alvium 1800 U-319m, 1/1.8" 3.2MP C-Mount, Right Angle USB 3.1 Monochrome Camera |                   |         |              |  | <b>CONTACT US</b> 1    |
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|    | <br>Basler ace2 a2A1920-160umPRO Monochrome USB3 Pro Camera                                       | Monochrome Camera |         | #16-629      | €535,00<br><a href="#">Request Quote</a> | 3 In Stock 1           |
|    | <br>Basler ace2 a2A1920-51gmPRO Monochrome GigE Pro Camera  | Monochrome Camera |         | #16-605      | €535,00<br><a href="#">Request Quote</a> | 1 In Stock 1           |
|    | <br>Allied Vision Alvium 1800 U-319c, 1/1.8" 3.2MP C-Mount, USB 3.0 Color Camera                  | Color Camera      |         | #14-872      | €540,00<br><a href="#">Request Quote</a> | 3 In Stock 1           |
|    | <br>Allied Vision Alvium 1800 U-319c, 1/1.8" 3.2MP C-Mount, Right Angle USB 3.1 Color Camera     | Color Camera      |         | #14-874      | €540,00<br><a href="#">Request Quote</a> | <b>CONTACT US</b> 1  |
|    | <br>M1280, 1/2" Monochrome, DALSA Genie Nano GigE PoE Camera                                    | Monochrome Camera |         | #34-952      | €545,00<br><a href="#">Request Quote</a> | 3 In Stock 1         |
|    | <br>Basler ace acA1300-200uc Color USB 3.0 Camera   | Color Camera      |         | #33-979      | €550,00<br><a href="#">Request Quote</a> | 1 In Stock 1         |
|    | <br>Basler ace acA1300-75gcE Color GigE Camera  | Color Camera      |         | #33-987      | €550,00<br><a href="#">Request Quote</a> | 2 In Stock 1         |
|    | <br>Basler ace2 a2A1920-51gcPRO Color GigE Pro Camera   | Color Camera      |         | #16-606      | €560,00<br><a href="#">Request Quote</a> | <b>CONTACT US</b> 1  |
|    | <br>BFS-PGE-31S4C-C PoE GigE Blackfly® S, Color Camera  | Color Camera      |         | #11-528      | €565,00<br><a href="#">Request Quote</a> | 2 In Stock 1         |
|    | <br>BFS-U3-31S4C-C USB 3.1 Blackfly® S, Color Camera  | Color Camera      |         | #12-750      | €565,00<br><a href="#">Request Quote</a> | <b>CONTACT US</b> 1  |
|    | <br>BFS-PGE-31S4M-C PoE GigE Blackfly® S, Monochrome Camera                                     | Monochrome Camera |         | #11-527      | €565,00<br><a href="#">Request Quote</a> | 1 In Stock 1         |
|    | <br>BFS-U3-31S4M-C USB 3.1 Blackfly® S, Monochrome Camera                                       | Monochrome Camera |         | #12-749      | €565,00<br><a href="#">Request Quote</a> | 1 In Stock 1         |
|    | <br>Basler ace2 a2A1920-160ucPRO Color USB3 Pro Camera  | Color Camera      |         | #16-630      | €570,00<br><a href="#">Request Quote</a> | <b>CONTACT US</b> 1  |
|    | <br>Basler ace acA2040-35gm Monochrome GigE Camera  | Monochrome Camera |         | #35-915      | €570,00<br><a href="#">Request Quote</a> | <b>CONTACT US</b> 1  |
|    | <br>Allied Vision Alvium G1-319m, 1/1.8" 3.2MP C-Mount, GigE PoE                                | Monochrome Camera |         | #23-547      | €580,00<br><a href="#">Request Quote</a> | 1 In Stock 1         |

|  | Title   | Type              | Compare | Stock Number                   | Price                 | Buy   |
|--|---|-------------------|---------|--------------------------------|-----------------------|---|
|  | Monochrome Camera   |                   |         |                                |                       |   |
|   |  BFLY-PGE-31S4M/C-C 1/1.8" Blackfly® PoE GigE Color Camera                 |                   |         |                                |                       | 1 In Stock <input type="text" value="1"/>    |
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|   |  C1280-IR, 1/2" Color, DALSA Genie Nano GigE PoE Camera                    | Color Camera      |         | #34-953                        | Request Quote         | 1 In Stock <input type="text" value="1"/>    |
|   |  BFLY-PGE-31S4M/C-C 1/1.8" Blackfly® PoE GigE Monochrome Camera            | Monochrome Camera |         | #34-511                        | €585,00 Request Quote | 3 In Stock <input type="text" value="1"/>    |
|   |  Allied Vision Alvium G1-319c, 1/1.8" 3.2MP C-Mount, GigE PoE Color Camera | Color Camera      |         | #23-548                        | €590,00 Request Quote | 5 In Stock <input type="text" value="1"/>    |
|    |  M1280, 1/2" NIR, Teledyne DALSA Genie Nano GigE PoE Camera               | NIR Camera        |         | #14-675                        | €590,00 Request Quote | 1 In Stock <input type="text" value="1"/>   |
|   |  Basler ace acA2040-35gc Color GigE Camera                               | Color Camera      |         | #35-916                        | €600,00 Request Quote | 2 In Stock <input type="text" value="1"/>  |
|   |  M2020, 1/1.8" Monochrome, DALSA Genie Nano GigE PoE Camera              | Monochrome Camera |         | #34-960                        | €605,00 Request Quote | 2 In Stock <input type="text" value="1"/>  |
|   |  C2020-IR, 1/1.8" Color, DALSA Genie Nano GigE PoE Camera                | Color Camera      |         | #34-961                        | €620,00 Request Quote | 2 In Stock <input type="text" value="1"/>  |
|   |  Allied Vision Mako G-319 1/1.8" Color CMOS Camera (Recertified 05-P)    | Color Camera      |         | #36-175-RCD-05P<br>RECERTIFIED | €636,00 Request Quote | 1 In Stock <input type="text" value="1"/>  |
|   |  IDS U3-3140CP-C-HQ, USB 3.0, 1/2" Color Camera                          | Color Camera      |         | #24-079                        | €650,00 Request Quote | 3 In Stock <input type="text" value="1"/>  |
|   |  IDS U3-3140CP-M-GL, USB 3.0, 1/2" Monochrome Camera                     | Monochrome Camera |         | #24-080                        | €650,00 Request Quote | 2 In Stock <input type="text" value="1"/>  |
|   |  IDS U3-3270CP-C-HQ REV.2.2, USB 3.0, 1/1.8" Color Camera                | Color Camera      |         | #16-528                        | €670,00 Request Quote | 2 In Stock <input type="text" value="1"/>  |
|   |  Allied Vision Mako G-192B 1/1.8" Monochrome CMOS Camera                 | Monochrome Camera |         | #33-516                        | €670,00 Request Quote | 3 In Stock <input type="text" value="1"/>  |
|   |  Allied Vision Mako G-192C 1/1.8" Color CMOS Camera                      | Color Camera      |         | #33-517                        | €690,00 Request Quote | 1 In Stock <input type="text" value="1"/>  |
|   |  Basler ace acA2040-55um Monochrome USB 3.0 Camera                       | Monochrome Camera |         | #35-921                        | €700,00 Request Quote | CONTACT US <input type="text" value="1"/>  |
|   |  Basler ace acA2040-55uc Color USB 3.0 Camera                            | Color Camera      |         | #35-922                        | €720,00 Request Quote | 1 In Stock <input type="text" value="1"/>  |

|                       | Title  | Type                         | Compare | Stock Number             | Price                                      | Buy  |
|-----------------------|--|------------------------------|---------|--------------------------|--|--|
| <a href="#">MORE+</a> |  Basler ace acA1600-60gm Monochrome Camera  |                              |         |                          | €780,00                                    | <a href="#">CONTACT US</a> 1    |
| <a href="#">MORE+</a> |  Basler ace acA1600-60gc Color GigE Camera  |                              |         |                          |  | 2 In Stock 1                    |
| <a href="#">MORE+</a> |  Allied Vision Mako G-319 1/1.8" Monochrome CMOS Camera                           | Monochrome Camera            |         | #36-174                  | €840,00<br><a href="#">Request Quote</a>   | <a href="#">CONTACT US</a> 1    |
| <a href="#">MORE+</a> |  Allied Vision Mako G-319 1/1.8" Color CMOS Camera                                | Color Camera                 |         | #36-175                  | €860,00<br><a href="#">Request Quote</a>   | <a href="#">CONTACT US</a> 1    |
| <a href="#">MORE+</a> |  Allied Vision Manta G-0319 1/1.8" Color Camera                                   | Color Camera                 |         | #34-717 <b>CLEARANCE</b> | €868,95<br><a href="#">Request Quote</a>   | 2 In Stock 1                    |
| <a href="#">MORE+</a> |  BFS-U3-32S4C-C USB 3.1 Blackfly® S, Color Camera                                | Color Camera                 |         | #36-454                  | €905,00<br><a href="#">Request Quote</a>   | 1 In Stock 1                    |
| <a href="#">MORE+</a> |  BFS-U3-32S4M-C USB 3.1 Blackfly® S, Monochrome Camera                          | Monochrome Camera            |         | #36-453                  | €905,00<br><a href="#">Request Quote</a>   | 3 In Stock 1                  |
| <a href="#">MORE+</a> |  Basler ace acA2040-120um Monochrome USB 3.0 Camera                             | Monochrome Camera            |         | #35-923                  | €980,00<br><a href="#">Request Quote</a>   | 3 In Stock 1                  |
| <a href="#">MORE+</a> |  Basler ace acA2040-120uc Color USB 3.0 Camera                                  | Color Camera                 |         | #35-924                  | €1.000,00<br><a href="#">Request Quote</a> | 2 In Stock 1                  |
| <a href="#">MORE+</a> |  Allied Vision Manta G-0319 1/1.8" Monochrome Camera                            | Monochrome Camera            |         | #34-716                  | €1.010,00<br><a href="#">Request Quote</a> | 2 In Stock 1                  |
| <a href="#">MORE+</a> |  IDS U3-3070CP-C-HQ, USB 3.0, 1/1.8" Color Camera                               | Color Camera                 |         | #16-512                  | €1.020,00<br><a href="#">Request Quote</a> | 2 In Stock 1                  |
| <a href="#">MORE+</a> |  IDS U3-3070CP-M-GL, USB 3.0, 1/1.8" Monochrome Camera                          | Monochrome Camera            |         | #16-513                  | €1.020,00<br><a href="#">Request Quote</a> | 2 In Stock 1                  |
| <a href="#">MORE+</a> |  Allied Vision Manta G-319C Color CMOS PoE Camera                               | Color Camera                 |         | #37-511                  | €1.070,00<br><a href="#">Request Quote</a> | 1 In Stock 1                  |
| <a href="#">MORE+</a> |  Allied Vision Manta G-319B Monochrome CMOS PoE Camera                          | Monochrome Camera            |         | #37-510                  | €1.070,00<br><a href="#">Request Quote</a> | 1 In Stock 1                  |
| <a href="#">MORE+</a> |  Pixelink M-Series M1C-CYL Microscopy Color Camera                              | Color Microscopy Camera      |         | #17-813                  | €1.080,00<br><a href="#">Request Quote</a> | <a href="#">CONTACT US</a> 1  |
| <a href="#">MORE+</a> |  Pixelink M-Series M1M-CYL Microscopy Monochrome Camera                         | Monochrome Microscopy Camera |         | #17-814                  | €1.080,00<br><a href="#">Request Quote</a> | <a href="#">CONTACT US</a> 1  |
| <a href="#">MORE+</a> |  GS3-U3-32S4C-C 1/1.8" FLIR Grasshopper®3 High Performance USB 3.0 Color Camera | Color Camera                 |         | #33-535                  | €1.155,00<br><a href="#">Request Quote</a> | 3 In Stock 1                  |

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|   | Title  | Type                               | Compare | Stock Number                          | Price                         | Buy   |
|---|--|------------------------------------|---------|---------------------------------------|-------------------------------|---|
|    | GS3-U3-32S4M-C<br>1/1.8" FLIR<br>Grasshopper®<br>High Performance<br>USB 3.0<br>Monochrome<br>Camera |                                    |         |                                       |                               | 1 In Stock <input type="text" value="1"/>    |
|    | Allied Vision M...<br>G-319C Color<br>CMOS PoE Camera<br>(Recertified 05-P)                          | Color Camera                       |         | #37-511-RCD-05P<br><b>RECERTIFIED</b> | €1.160,00<br>Request<br>Quote | 2 In Stock <input type="text" value="1"/>    |
|    | Pixelink PL-<br>D721MU-BL, 1/2"<br>1.3MP, Board Level<br>USB 3.0<br>Monochrome<br>Camera             | Monochrome<br>Camera               |         | #89-380                               | €1.400,00<br>Request<br>Quote | CONTACT US <input type="text" value="1"/>    |
|    | Pixelink PL-<br>D721MU-T, 1/2"<br>1.3MP, C-Mount<br>USB 3.0<br>Monochrome<br>Camera                  | Monochrome<br>Camera               |         | #89-378                               | €1.510,00<br>Request<br>Quote | 1 In Stock <input type="text" value="1"/>    |
|  | M2050, 1/1.8"<br>Monochrome,<br>Teledyne DALSA<br>Genie Nano 5GigE<br>PoE Camera                     | Monochrome<br>Camera               |         | #16-024                               | €1.600,00<br>Request<br>Quote | 4 In Stock <input type="text" value="1"/>  |
|  | C2050-IR, 1/1.8"<br>Color, Teledyne<br>DALSA Genie Nano<br>5GigE PoE Camera                          | Color Camera                       |         | #16-025                               | €1.615,00<br>Request<br>Quote | 1 In Stock <input type="text" value="1"/>  |
|  | Oryx® ORX-10GS-<br>32S4C-C Color<br>10GigE   | Color Camera                       |         | #19-797                               | €1.775,00<br>Request<br>Quote | 1 In Stock <input type="text" value="1"/>  |
|  | Oryx® ORX-10GS-<br>32S4M-C Mono<br>10GigE  | Monochrome<br>Camera               |         | #19-796                               | €1.775,00<br>Request<br>Quote | CONTACT US <input type="text" value="1"/>  |
|  | PL-D721-AF-ED<br>Pixelink USB 3.0<br>Autofocus Color<br>Camera                                       | Color Camera                       |         | #34-776                               | €2.050,00<br>Request<br>Quote | 1 In Stock <input type="text" value="1"/>  |
|  | PL-D721-AF-ED<br>Pixelink USB 3.0<br>Autofocus<br>Monochrome<br>Camera                               | Monochrome<br>Camera               |         | #34-775                               | €2.050,00<br>Request<br>Quote | 1 In Stock <input type="text" value="1"/>  |
|  | Lumenera<br>INFINITY5 5-3<br>Microscopy Color<br>Camera  | Color<br>Microscopy<br>Camera      |         | #16-678                               | €3.725,00<br>Request<br>Quote | 1 In Stock <input type="text" value="1"/>  |
|  | Lumenera<br>INFINITY5 5-3<br>Microscopy<br>Monochrome<br>Camera                                      | Monochrome<br>Microscopy<br>Camera |         | #16-677                               | €3.725,00<br>Request<br>Quote | 1 In Stock <input type="text" value="1"/>  |

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APPLICATION NOTE

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(AR) Coatings

APPLICATION NOTE

An  
Introduction to  
Optical  
Coatings

VIDEO

Wavelength  
and f#

- Application Note
- Video
- Trending in Optics
- Published Article
- FAQ
- Glossary
- Technical Tool

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and Field  
of View

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