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All Products / Imaging Lenses / [...] / See all 28 Products in Family
/ HPi Series Fixed Focal Length Le[...]

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Submit

TECHSPEC® 16mm f[...] Lens

16mm HPi Series Fixed Focal Length Lens

S[...]

− 1 + €710,⁰⁰

ADD TO CART

Volume Pricing	
Qty 1+	€710,00 each
Need More?	Request Quote

⚠ Prices shown are exclusive of VAT/local taxes

Product Downloads

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

General

Product Family:	HPi Series	**Type:**	Fixed Focal Length Lens

Physical & Mechanical Properties

Iris Option:	Fixed	**Length (mm):**	64.20
Maximum Diameter (mm):	48	**Outer Diameter (mm):**	48
Weight (g):	117	**Maximum Rear Protrusion (mm):**	0

Optical Properties

Horizontal Field of View @ Max Sensor Format:	127mm - 53°	**Field of View at Max Sensor Format:**	Horizontal: 112.4mm - 47.2° Vertical: 82.7mm - 35.9° Diagonal: 144.7mm - 58°
Horizontal Field of View, 1.1" Sensor:	113.4mm - 47.6°	**Horizontal Field of View, 1" Sensor:**	101.3mm - 43.2°
Horizontal Field of View, 2/3" Sensor:	68.4mm - 30.1°	**Horizontal Field of View, 1/1.8" Sensor:**	55.7mm - 24.8°
Horizontal Field of View, 1/2" Sensor:	49.4mm - 22.1°	**Horizontal Field of View, 1/2.5" Sensor:**	44.7mm - 20.0°
Horizontal Field of View, 1/3" Sensor:	36.9mm - 16.6°	**Horizontal Field of View, 1/4" Sensor:**	27.6mm - 12.5°
Maximum Image Circle (mm):	17.60	**Numerical Aperture NA, Object Side:**	0.0058

Number of Elements (Groups):	9 (7)	**Focal Length FL (mm):**	16.00
Working Distance (mm):	100 - ∞	**Aperture**	f/11
Coating:	λ/4 MgF$_2$		
Entrance Pupil Position (mm):	27.28	**Principal Plane (mm):**	
Image Space Principal Plane (mm):	4.08	**Maximum Distortion (%):**	-3.76
Exit Pupil Position (mm):	-58.81	**Optimized Working Distance (mm):**	400 - 2000
Lens Wavelength Range:	VIS		

Sensor

Optimized Sensor Format:	1"	**Maximum Sensor Format:**	1.1"
Pixel Size (µm):	1.85		

Threading & Mounting

Filter Thread:	M46.0 x 0.75 (Female)	**Mount:**	C-Mount

Environmental & Durability Factors

Storage Temperature (°C):	**-20 to +60**	**Type of Ruggedization:**	Industrial (Fixed Aperture with Simplified Mechanics)

Regulatory Compliance

Certificate of Conformance:	**View**		

Product Details

- 1.1", C-Mount Lens
- Up to 20 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HPi) versions of our HP Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 16mm to 50mm Focal Length
- **Ruggedized (HPr) Designs** Also Available

TECHSPEC® HPi Series Fixed Focal Length Lenses offer the same high resolution performance as the TECHSPEC HP Series Lenses with a streamlined design. The simplified mechanical design enables a more compact size with a reduction in cost and weight, making them ideal for OEM volume applications. Featuring a wide range of fixed aperture versions and an adjustable focus, TECHSPEC HPi Series Fixed Focal Length Lenses offer the ideal combination of simplicity and flexibility required for industrial applications. Call for OEM Quantity Pricing.

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

- **HP Series**: Features locking cam focus and iris adjustment. This is the most adjustable version of these optical designs and is the typical high quality machine vision lens.
- HPi Series: Simplified mechanics featuring fixed apertures with compact housing. **Industrial Ruggedization** for reduced size, cost, and locked focus.
- **HPr Series**: All optics glued in place and a locking C-clamp focus ring. **Stabilized Ruggedization** for reduced pixel shift and improved focus stability.

Technical Information

#33-819, 16mm f/11, HPi Series Fixed Focal Length Lens, Distortion Plot

#33-819, 16mm f/11, HPi Series Fixed Focal Length Lens, Relative Illumination Plot

#33-819, 16mm f/11, HPi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot

#33-819, 16mm f/11, HPi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f11

#33-819, 16mm f/11, HPi Series Fixed Focal ... 500mm Working Distance, f11

...ocal Length Lens, Modulated Transfer ... Distance, f11

#33-819, 16mm f/11, HPi Series Fixed Focal ... 1000mm Working Distance, f11

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Accessories

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

▲▼	Title ▲▼	Compare	Stock Number ▲▼	Price ☐	Buy
MORE+	Filter Adapter M34 x 0.5 from M27.5 x 0.5 (Female)		**#11-610**	€54,50 **Request Quote**	**7 In Stock** [1] 🛒

Related Products

#89-820 – Light Red M46.0 x 0.75 High Performance Machine Vision Filter
€302,00
[Qty] 🛒

#89-790 – Green M46.0 x 0.75 High Performance Machine Vision Filter
€302,00
[Qty] 🛒

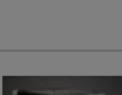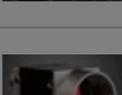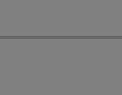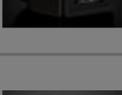**#89-770 – Blue M46.0 x 0.75 High Performance Machine Vision Filter**
€302,00
[Qty] 🛒

#89-800 – VIS (UV/IR Cut) M46.0 x 0.75 High Performance Machine Vision Filter
€302,00
[Qty] 🛒

Compatible Cameras

▲	Title ▲▼	Type ▲▼	Compare	Stock Number ▲▼	Price ☐	Buy
MORE+	LUCID Vision Labs Triton™ TRI120S-MC, Sony IMX304, 12.3MP, Monochrome Camera (Recertified 05-P)	Monochrome Camera		**#12-759-RCD-05P** RECERTIFIED	€868,00 **Request Quote**	**1 In Stock** [1] 🛒
MORE+	LUCID Vision Labs Phoenix™ PHX089S-CC, Sony IMX267, 8.9 MP, Color Camera	Color Camera		**#11-469**	€915,00 **Request Quote**	CONTACT US [1] 🛒
MORE+	LUCID Vision Labs Phoenix™ PHX089S-MC, Sony IMX267, 8.9 MP, Monochrome Camera	Monochrome Camera		**#11-468**	€915,00 **Request Quote**	**1 In Stock** [1] 🛒

	Title	Type	Compare	Stock Number	Price ☐		Buy
MORE+	LUCID Vision Labs Triton™ TRI089... CC, Sony IMX... 8.9MP, Color Camera					4 In Stock	[1] 🛒
MORE+	LUCID Vision Triton™ TRI08... MC, Sony IMX... 8.9MP, Monochrome Camera	Camera		#35-925	Request Quote	1 In Stock	[1] 🛒
MORE+	Basler ace acA2500-20gm Monochrome GigE Camera	Monochrome Camera		#35-919	€1.050,00 Request Quote	CONTACT US	[1] 🛒
MORE+	Basler ace acA2500-60um Monochrome USB 3.0 Camera	Monochrome Camera		#35-929	€1.050,00 Request Quote	5 In Stock	[1] 🛒
MORE+	M2590, 1" Monochrome, DALSA Genie Nano GigE PoE Camera	Monochrome Camera		#34-964	€1.060,00 Request Quote	1 In Stock	[1] 🛒
MORE+	LUCID Vision Labs Phoenix™ PHX120S-CC, Sony IMX304, 12.3 MP, Color Camera	Color Camera		#11-473	€1.070,00 Request Quote	CONTACT US	[1] 🛒
MORE+	LUCID Vision Labs Phoenix™ PHX120S-MC, Sony IMX304, 12.3 MP, Monochrome Camera	Monochrome Camera		#11-472	€1.070,00 Request Quote	2 In Stock	[1] 🛒
MORE+	Basler ace acA2500-20gc Color GigE Camera	Color Camera		#35-920	€1.080,00 Request Quote	CONTACT US	[1] 🛒
MORE+	Basler ace acA2500-60uc Color USB 3.0 Camera	Color Camera		#35-930	€1.080,00 Request Quote	1 In Stock	[1] 🛒
MORE+	LUCID Vision Labs Triton™ TRI120S-CC, Sony IMX304, 12.3MP, Color Camera	Color Camera		#12-760	€1.085,00 Request Quote	CONTACT US	[1] 🛒
MORE+	LUCID Vision Labs Triton™ TRI120S-MC, Sony IMX304, 12.3MP, Monochrome Camera	Monochrome Camera		#12-759	€1.085,00 Request Quote	1 In Stock	[1] 🛒
MORE+	C2590-IR, 1" Color, DALSA Genie Nano GigE PoE Camera	Color Camera		#34-965	€1.100,00 Request Quote	1 In Stock	[1] 🛒
MORE+	IDS U3-3180CP-C-HQ, USB 3.0, 1" Color Camera	Color Camera		#24-083	€1.140,00 Request Quote	1 In Stock	[1] 🛒
MORE+	IDS U3-3180CP-M-GL, USB 3.0, 1" Monochrome Camera	Monochrome Camera		#24-084	€1.140,00 Request Quote	2 In Stock	[1] 🛒
MORE+	M2590, 1" NIR, Teledyne DALSA Genie Nano GigE PoE Camera	NIR Camera		#14-677	€1.140,00 Request Quote	CONTACT US	[1] 🛒
MORE+	LUCID Vision Labs Triton™ TRI071S-CC, Sony IMX428,	Color Camera		#17-100	€1.265,00 Request Quote	1 In Stock	[1] 🛒

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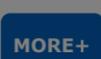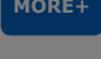
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	Title	Type	Compare	Stock Number	Price ☐	Buy
	7.1MP, Color Camera					
MORE+	LUCID Vision Triton™ TRI07... MC, Sony IMX... 7.1MP, Monoc... Camera					1 In Stock 1 🛒
MORE+	LUCID Vision Labs Triton™ TRI0162S-CC, Sony IMX542, 16.2MP, Color Camera	Color Camera		#17-103	€1.325,00 Request Quote	CONTACT US 1 🛒
MORE+	LUCID Vision Labs Triton™ TRI0162S-MC, Sony IMX542, 16.2MP, Monochrome Camera	Monochrome Camera		#17-102	€1.325,00 Request Quote	2 In Stock 1 🛒
MORE+	Allied Vision Alvium 1800 U-1620m, 1.1" 16.2MP C-Mount, USB 3.0 Monochrome Camera (Recertified 05-P)	Monochrome Camera		#19-599-RCD-05P RECERTIFIED	€1.376,80 Request Quote	1 In Stock 1 🛒
MORE+	GS3-U3-41C6C-C 1" FLIR Grasshopper®3 High Performance USB 3.0 Color Camera	Color Camera		#88-514	€1.540,00 Request Quote	1 In Stock 1 🛒
MORE+	GS3-U3-41C6M-C 1" FLIR Grasshopper®3 High Performance USB 3.0 Monochrome Camera	Monochrome Camera		#88-513	€1.540,00 Request Quote	2 In Stock 1 🛒
MORE+	GS3-U3-41C6NIR-C 1" FLIR Grasshopper®3 High Performance USB 3.0 NIR Camera	NIR Camera		#89-526	€1.540,00 Request Quote	3 In Stock 1 🛒
MORE+	IDS U3-3290SE-C-HQ, USB 3.0, 1" Color Camera (Recertified 05-P)	Color Camera		#24-134-RCD-05P RECERTIFIED	€1.556,00 Request Quote	1 In Stock 1 🛒
MORE+	Allied Vision Alvium 1800 U-1620m, 1.1" 16.2MP C-Mount, Right Angle USB 3.1 Monochrome Camera (Partial Housing)	Monochrome Camera		#19-602	€1.560,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Alvium 1800 U-1620m, 1.1" 16.2MP C-Mount, USB 3.0 Monochrome Camera (Partial Housing)	Monochrome Camera		#19-601	€1.560,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Alvium 1800 U-1620c, 1.1" 16.2MP C-Mount, Right Angle USB 3.1 Color Camera (Partial Housing)	Color Camera		#19-606	€1.570,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Alvium 1800 U-1620c, 1.1" 16.2MP C-Mount, USB 3.0 Color	Color Camera		#19-605	€1.570,00 Request Quote	CONTACT US 1 🛒

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Camera (Partial Housing)

	Title	Type	Stock Number	Price	Stock	Buy
MORE+	Allied Vision Alvium 1800 U-1620m, 1.1" 16.2MP C-Mount, Right Angle USB 3.1 Monochrome Camera				CONTACT US	1
MORE+	Allied Vision Alvium 1800 U-1620m, 1.1" 16.2MP C-Mount, USB 3.0 Monochrome Camera	Monochrome Camera	#19-599	€1.570,00 Request Quote	3 In Stock	1
MORE+	Allied Vision Alvium 1800 U-1620c, 1.1" 16.2MP C-Mount, Right Angle USB 3.1 Color Camera	Color Camera	#19-604	€1.580,00 Request Quote	1 In Stock	1
MORE+	Allied Vision Alvium 1800 U-1620c, 1.1" 16.2MP C-Mount, USB 3.0 Color Camera	Color Camera	#19-603	€1.580,00 Request Quote	4 In Stock	1
MORE+	Allied Vision Alvium G1-1620m, 1.1" 16.2MP C-Mount, GigE PoE Monochrome Camera	Monochrome Camera	#23-567	€1.590,00 Request Quote	CONTACT US	1
MORE+	Allied Vision Alvium G1-1620c, 1.1" 16.2MP C-Mount, GigE PoE Color Camera	Color Camera	#23-568	€1.600,00 Request Quote	CONTACT US	1
MORE+	Allied Vision Alvium G1-1236m, 1.1" 12.4MP C-Mount, GigE PoE Monochrome Camera	Monochrome Camera	#23-563	€1.600,00 Request Quote	2 In Stock	1
MORE+	Allied Vision Alvium G1-1236c, 1.1" 12.4MP C-Mount, GigE PoE Color Camera	Color Camera	#23-564	€1.610,00 Request Quote	2 In Stock	1
MORE+	BFS-U3-88S6C-C USB 3.1 Blackfly® S, Color Camera	Color Camera	#11-512	€1.635,00 Request Quote	1 In Stock	1
MORE+	BFS-PGE-88S6C-C PoE GigE Blackfly® S, Color Camera	Color Camera	#11-530	€1.635,00 Request Quote	2 In Stock	1
MORE+	BFS-U3-88S6M-C USB 3.1 Blackfly® S, Monochrome Camera	Monochrome Camera	#11-511	€1.635,00 Request Quote	1 In Stock	1
MORE+	BFS-PGE-88S6M-C PoE GigE Blackfly® S, Monochrome Camera	Monochrome Camera	#11-529	€1.635,00 Request Quote	1 In Stock	1
MORE+	Basler AceacA4096-30um USB 3.0 Monochrome Camera	Monochrome Camera	#37-217	€1.680,00 Request Quote	2 In Stock	1
MORE+	Basler ace acA4096-11gm Monochrome GigE Camera	Monochrome Camera	#37-209	€1.680,00 Request Quote	CONTACT US	1
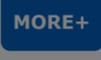
	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+	LUCID Vision Labs Triton™ TRI02... CC, Sony IMX... 20.4MP, Color Camera				€1.995,00	CONTACT US 1 🛒

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	LUCID Vision Triton™ TRI02... MC, Sony IMX... 20.4MP, Monochrome Camera	Monochrome Camera		#17-104	Request Quote	CONTACT US 1 🛒
MORE+	Basler Ace acA4096-30uc USB 3.0 Color Camera	Color Camera		#37-218	€1.700,00 Request Quote	CONTACT US 1 🛒
MORE+	Basler ace acA4096-11gc Color GigE Camera	Color Camera		#37-210	€1.700,00 Request Quote	1 In Stock 1 🛒
MORE+	Pixelink PL-D726MU-BL, 1" 6.6MP, Board Level USB 3.0 Monochrome Camera	Monochrome Camera		#89-402 CLEARANCE	€1.725,00 Request Quote	CONTACT US 1 🛒
MORE+	Basler ace2 a2A5320-23umBAS Monochrome USB3 Basic Camera	Monochrome Camera		#16-625	€1.725,00 Request Quote	1 In Stock 1 🛒
MORE+	Basler ace2 a2A5320-7gmBAS Monochrome GigE Basic Camera	Monochrome Camera		#16-601	€1.725,00 Request Quote	1 In Stock 1 🛒
MORE+	Basler ace2 a2A5320-23ucBAS Color USB3 Basic Camera	Color Camera		#16-626	€1.745,00 Request Quote	1 In Stock 1 🛒
MORE+	Basler ace2 a2A5320-7gcBAS Color GigE Basic Camera	Color Camera		#16-602	€1.745,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink PL-D734MU-T, 1" 4.2MP, C-Mount USB 3.0 Monochrome Camera (Recertified 05-P)	Monochrome Camera		#33-342-RCD-05P RECERTIFIED	€1.760,00 Request Quote	2 In Stock 1 🛒
MORE+	Basler ace acA2040-90um Monochrome USB 3.0 Camera	Monochrome Camera		#89-989	€1.790,00 Request Quote	2 In Stock 1 🛒
MORE+	Basler ace acA2040-90uc Color USB 3.0 Camera	Color Camera		#89-990	€1.830,00 Request Quote	CONTACT US 1 🛒
MORE+	LUCID Vision Labs Atlas™ ATL071S-CC, Sony IMX420, 7.1MP, Color Camera (Recertified 05-P)	Color Camera		#17-111-RCD-05P RECERTIFIED	€1.836,00 Request Quote	1 In Stock 1 🛒
MORE+	Allied Vision Mako G-419B 1" Monochrome CMOS Camera (Recertified 05-P)	Monochrome Camera		#88-472-RCD-05P RECERTIFIED	€1.870,00 Request Quote	1 In Stock 1 🛒

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MORE+	Allied Vision Alvium 1800 U-1236m, 1.1" 12.4MP C-Mount, USB 3.0 Monochrome Camera					2 In Stock	1 🛒
MORE+	Allied Vision Alvium G5-1620c, 1.1" 16.2MP C-Mount, 5GigE PoE Color Camera (Recertified 05-P)	Color Camera		#23-636-RCD-05P **RECERTIFIED**	€1.888,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Alvium 1800 U-1236c, 1.1" 12.4MP C-Mount, USB 3.0 Color Camera	Color Camera		#14-890	€1.890,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Alvium 1800 U-1236c, 1.1" 12.4MP C-Mount, Right Angle USB 3.1 Color Camera	Color Camera		#14-892	€1.890,00 Request Quote		CONTACT US 1 🛒
MORE+	Basler ace2 a2A5320-23umPRO Monochrome USB3 Pro Camera	Monochrome Camera		#16-637	€1.890,00 Request Quote		CONTACT US 1 🛒
MORE+	Basler ace2 a2A5320-7gmPRO Monochrome GigE Pro Camera	Monochrome Camera		#16-613	€1.890,00 Request Quote	1 In Stock	1 🛒
MORE+	Pixelink M-Series M4C-CYL Microscopy Color Camera	Color Microscopy Camera		#17-819	€1.895,00 Request Quote	1 In Stock	1 🛒
MORE+	Basler ace2 a2A5320-23ucPRO Color USB3 Pro Camera	Color Camera		#16-638	€1.925,00 Request Quote	1 In Stock	1 🛒
MORE+	Basler ace2 a2A5320-7gcPRO Color GigE Pro Camera	Color Camera		#16-614	€1.925,00 Request Quote	1 In Stock	1 🛒
MORE+	IDS U3-3290SE-C-HQ, USB 3.0, 1" Color Camera	Color Camera		#24-134	€1.945,00 Request Quote		CONTACT US 1 🛒
MORE+	IDS U3-3290SE-M-GL, USB 3.0, 1" Monochrome Camera	Monochrome Camera		#24-135	€1.945,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Manta G-1236C Color CMOS PoE Camera	Color Camera		#37-515 **CLEARANCE**	€1.953,95 Request Quote		CONTACT US 1 🛒
MORE+	Allied Vision Manta G-895 1" Color CMOS Camera	Color Camera		#36-179	€1.960,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Manta G-895 1" Monochrome CMOS Camera	Monochrome Camera		#36-178	€1.960,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Alvium G1-2040m, 1.1" 20.4MP C-Mount, GigE PoE Monochrome Camera	Monochrome Camera		#23-571	€1.960,00 Request Quote		CONTACT US 1 🛒
MORE+	Allied Vision Alvium 1800 U-1236m, 1.1" 12.4MP C-Mount, Right Angle	Monochrome Camera		#14-891	€1.965,00 Request Quote		CONTACT US 1 🛒

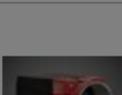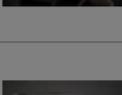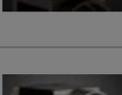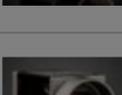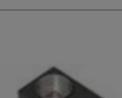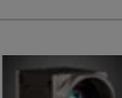|	Title	Type	Compare	Stock Number	Price ☐	Buy
	USB 3.1 Monochrome Camera					
MORE+	Allied Vision A... G1-2040c, 1... 20.4MP C-Mou... GigE PoE Colo... Camera					CONTACT US 1 🛒
MORE+	Allied Vision Mako G-419B 1" Monochrome CMOS Camera	Monochrome Camera		#88-472	€1.980,00 Request Quote	1 In Stock 1 🛒
MORE+	Allied Vision Alvium 1800 U-2040m, 1.1" 20.4MP C-Mount, Right Angle USB 3.1 Monochrome Camera (Partial Housing)	Monochrome Camera		#19-610	€1.990,00 Request Quote	1 In Stock 1 🛒
MORE+	Allied Vision Alvium 1800 U-2040m, 1.1" 20.4MP C-Mount, USB 3.0 Monochrome Camera (Partial Housing)	Monochrome Camera		#19-609	€1.990,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Mako G-419C 1" Color CMOS Camera	Color Camera		#88-473	€2.000,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Alvium 1800 U-2040c, 1.1" 20.4MP C-Mount, Right Angle USB 3.1 Color Camera (Partial Housing)	Color Camera		#19-614	€2.000,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Alvium 1800 U-2040c, 1.1" 20.4MP C-Mount, USB 3.0 Color Camera (Partial Housing)	Color Camera		#19-613	€2.000,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Alvium 1800 U-2040m, 1.1" 20.4MP C-Mount, Right Angle USB 3.1 Monochrome Camera	Monochrome Camera		#19-608	€2.000,00 Request Quote	2 In Stock 1 🛒
MORE+	Allied Vision Alvium 1800 U-2040m, 1.1" 20.4MP C-Mount, USB 3.0 Monochrome Camera	Monochrome Camera		#19-607	€2.000,00 Request Quote	9 In Stock 1 🛒
MORE+	BFS-U3-122S6C-C USB 3.1 Blackfly® S, Color Camera	Color Camera		#11-518	€2.020,00 Request Quote	1 In Stock 1 🛒
MORE+	Allied Vision Manta G-895C Color CMOS PoE Camera	Color Camera		#35-899	€2.020,00 Request Quote	2 In Stock 1 🛒
MORE+	BFS-PGE-122S6C-C PoE GigE Blackfly® S, Color Camera	Color Camera		#11-532	€2.020,00 Request Quote	1 In Stock 1 🛒
MORE+	Allied Vision Alvium 1800 U-2040c, 1.1" 20.4MP C-Mount, USB 3.0 Color Camera	Color Camera		#19-611	€2.020,00 Request Quote	5 In Stock 1 🛒

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	Title	Type	Compare	Stock Number	Price ☐		Buy
MORE+	Allied Vision Alvium 1800 U-2040c 20.4MP C-Mount Right Angle U... 3.1 Color Cam...				€...	2 In Stock	1 🛒
MORE+	Allied Vision M... G-419 1" Monochrome C... Camera	Camera			Request Quote	CONTACT US	1 🛒
MORE+	BFS-U3-122S6M-C USB 3.1 Blackfly® S, Monochrome Camera	Monochrome Camera		#11-517	€2.020,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Manta G-895B Monochrome CMOS PoE Camera	Monochrome Camera		#35-898	€2.020,00 Request Quote	CONTACT US	1 🛒
MORE+	BFS-PGE-122S6M-C PoE GigE Blackfly® S, Monochrome Camera	Monochrome Camera		#11-531	€2.020,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Manta G-1620C Color CMOS PoE Camera	Color Camera		#17-092	€2.030,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Manta G-1620B Monochrome CMOS PoE Camera	Monochrome Camera		#17-091	€2.030,00 Request Quote	CONTACT US	1 🛒
MORE+	Allied Vision Alvium G5-1620m, 1.1" 16.2MP C-Mount, 5GigE PoE Monochrome Camera	Monochrome Camera		#23-635	€2.040,00 Request Quote	5 In Stock	1 🛒
MORE+	Allied Vision Alvium G5-1620c, 1.1" 16.2MP C-Mount, 5GigE PoE Color Camera	Color Camera		#23-636	€2.050,00 Request Quote	1 In Stock	1 🛒
MORE+	Basler Ace acA4112-20um USB 3.0 Monochrome Camera	Monochrome Camera		#37-221	€2.060,00 Request Quote	CONTACT US	1 🛒
MORE+	Basler ace acA4112-8gm Monochrome GigE Camera	Monochrome Camera		#37-211	€2.060,00 Request Quote	CONTACT US	1 🛒
MORE+	Basler Ace acA4112-20uc USB 3.0 Color Camera	Color Camera		#37-222	€2.080,00 Request Quote	8 In Stock	1 🛒
MORE+	Basler ace acA4112-8gc Color GigE Camera	Color Camera		#37-212	€2.080,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Manta G-419C Color CMOS PoE Camera	Color Camera		#13-941	€2.080,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Manta G-419B Monochrome CMOS PoE Camera	Monochrome Camera		#13-940	€2.080,00 Request Quote	1 In Stock	1 🛒
MORE+	Allied Vision Mako G-419B 1" NIR CMOS Camera	NIR Camera		#88-474	€2.090,00 Request Quote	2 In Stock	1 🛒
MORE+	Basler ace acA2040-90um NIR USB 3.0 Camera	NIR Camera		#34-176	€2.120,00 Request Quote	CONTACT US	1 🛒

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	Title	Type	Compare	Stock Number	Price		Buy
MORE+	BFS-U3-70S7C-C USB 3.1 Blackfly® S, Color Camera (Recertified 0...)				€2.125,00	1 In Stock	1
MORE+	Allied Vision M... G-419 1" NIR Camera					CONTACT US	1
MORE+	BFS-U3-70S7C-C USB 3.1 Blackfly® S, Color Camera	Color Camera		#13-927	€2.150,00 Request Quote	2 In Stock	1
MORE+	BFS-PGE-70S7C-C PoE GigE Blackfly® S, Color Camera	Color Camera		#13-923	€2.150,00 Request Quote	CONTACT US	1
MORE+	BFS-U3-70S7M-C USB 3.1 Blackfly® S, Monochrome Camera	Monochrome Camera		#13-926	€2.150,00 Request Quote	1 In Stock	1
MORE+	BFS-PGE-70S7M-C PoE GigE Blackfly® S, Monochrome Camera	Monochrome Camera		#13-922	€2.150,00 Request Quote	CONTACT US	1
MORE+	Pixelink PL-D734CU-T, 1" 4.2MP, C-Mount USB 3.0 Color Camera	Color Camera		#33-343	€2.160,00 Request Quote	1 In Stock	1
MORE+	Pixelink PL-D797CU-BL, 1.1" 7.1MP, Board Level USB 3.0 Color Camera	Color Camera		#14-170	€2.160,00 Request Quote	CONTACT US	1
MORE+	Pixelink PL-D734MU-T, 1" 4.2MP, C-Mount USB 3.0 Monochrome Camera	Monochrome Camera		#33-342	€2.160,00 Request Quote	1 In Stock	1
MORE+	Pixelink PL-D797MU-BL, 1.1" 7.1MP, Board Level USB 3.0 Monochrome Camera	Monochrome Camera		#14-169	€2.160,00 Request Quote	CONTACT US	1
MORE+	Basler ace2 a2A4504-18umBAS Monochrome USB3 Basic Camera	Monochrome Camera		#16-623	€2.170,00 Request Quote	2 In Stock	1
MORE+	Basler ace2 a2A4504-5gmBAS Monochrome GigE Basic Camera	Monochrome Camera		#16-599	€2.170,00 Request Quote	1 In Stock	1
MORE+	Basler ace2 a2A4504-18ucBAS Color USB3 Basic Camera	Color Camera		#16-624	€2.205,00 Request Quote	CONTACT US	1
MORE+	Basler ace2 a2A4504-5gcBAS Color GigE Basic Camera	Color Camera		#16-600	€2.205,00 Request Quote	CONTACT US	1
MORE+	Basler ace acA2040-25gm Monochrome GigE Camera	Monochrome Camera		#87-104	€2.230,00 Request Quote	4 In Stock	1
MORE+	Pixelink PL-D797CU-T, 1.1" 7.1MP, C-Mount USB 3.0 Color Camera	Color Camera		#14-168	€2.265,00 Request Quote	CONTACT US	1

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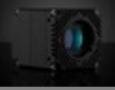|	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+	LUCID Vision Labs Atlas™ ATL071S-CC, Sony IMX420, 7.1MP, Color Camera					CONTACT US 1 🛒
MORE+	Pixelink PL-D797MU-T, 1.7.1MP, C-Mount USB 3.0 Monochrome Camera	Monochrome Camera		#14-167	Request Quote	CONTACT US 1 🛒
MORE+	LUCID Vision Labs Atlas™ ATL071S-MC, Sony IMX420, 7.1MP, Monochrome Camera	Monochrome Camera		#17-110	€2.265,00 Request Quote	1 In Stock 1 🛒
MORE+	Basler ace acA2040-25gc Color GigE Camera	Color Camera		#87-105	€2.270,00 Request Quote	1 In Stock 1 🛒
MORE+	Pixelink M-Series M4M-CYL Microscopy Monochrome Camera	Monochrome Microscopy Camera		#17-820	€2.375,00 Request Quote	CONTACT US 1 🛒
MORE+	Basler ace2 a2A4504-18umPRO Monochrome USB3 Pro Camera	Monochrome Camera		#16-635	€2.405,00 Request Quote	1 In Stock 1 🛒
MORE+	Basler ace2 a2A4504-5gmPRO Monochrome GigE Pro Camera	Monochrome Camera		#16-611	€2.405,00 Request Quote	CONTACT US 1 🛒
MORE+	IDS U3-3200SE-C-HQ, USB 3.0, 1.1" Color Camera	Color Camera		#24-132	€2.415,00 Request Quote	1 In Stock 1 🛒
MORE+	IDS U3-3200SE-M-GL, USB 3.0, 1.1" Monochrome Camera	Monochrome Camera		#24-133	€2.415,00 Request Quote	1 In Stock 1 🛒
MORE+	Basler ace2 a2A4504-18ucPRO Color USB3 Pro Camera	Color Camera		#16-636	€2.430,00 Request Quote	CONTACT US 1 🛒
MORE+	Basler ace2 a2A4504-5gcPRO Color GigE Pro Camera	Color Camera		#16-612	€2.430,00 Request Quote	CONTACT US 1 🛒
MORE+	M4020, 1.1" Monochrome, DALSA Genie Nano GigE PoE Camera	Monochrome Camera		#35-911	€2.435,00 Request Quote	CONTACT US 1 🛒
MORE+	C4020-IR, 1.1" Color, DALSA Genie Nano GigE PoE Camera	Color Camera		#35-912	€2.455,00 Request Quote	3 In Stock 1 🛒
MORE+	Allied Vision Manta G-2040B Monochrome CMOS PoE Camera	Monochrome Camera		#17-093	€2.470,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink PL-D799CU-T, 1" 9.0MP, C-Mount USB 3.0 Color Camera	Color Camera		#38-008	€2.480,00 Request Quote	1 In Stock 1 🛒
MORE+	Pixelink PL-D799MU-T, 1" 9.0MP, C-Mount USB 3.0	Monochrome Camera		#38-007	€2.480,00 Request Quote	1 In Stock 1 🛒

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	Title	Type	Compare	Stock Number	Price ☐	Buy
	Monochrome Camera					
MORE+	Allied Vision M... G-1236 1.1" C... CMOS Camera					CONTACT US 1 🛒
MORE+	Allied Vision M... G-1236 1.1" Monochrome CMOS Camera	Monochrome Camera		#36-180	Request Quote	1 In Stock 1 🛒
MORE+	IDS U3-3990SE-C-HQ, USB 3.0, 1.1" Color Camera	Color Camera		#24-140	€2.505,00 Request Quote	3 In Stock 1 🛒
MORE+	IDS U3-3990SE-M-GL, USB 3.0, 1.1" Monochrome Camera	Monochrome Camera		#24-141	€2.505,00 Request Quote	2 In Stock 1 🛒
MORE+	Basler ace acA2040-25gm-NIR GigE Camera	NIR Camera		#87-106	€2.530,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Manta G-1236B Monochrome CMOS PoE Camera	Monochrome Camera		#37-514	€2.560,00 Request Quote	5 In Stock 1 🛒
MORE+	LUCID Vision Labs Atlas™ ATL089S-CC, Sony IMX255, 8.9MP, Color Camera	Color Camera		#13-736	€2.570,00 Request Quote	CONTACT US 1 🛒
MORE+	LUCID Vision Labs Atlas™ ATL089S-MC, Sony IMX255, 8.9MP, Monochrome Camera	Monochrome Camera		#13-735	€2.570,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink PL-D757CU-BL, 1.1" 7.1MP, Board Level USB 3.0 Color Camera	Color Camera		#14-166	€2.700,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink PL-D757MU-BL, 1.1" 7.1MP, Board Level USB 3.0 Monochrome Camera	Monochrome Camera		#14-165	€2.700,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink M-Series M9C-CYL Microscopy Color Camera	Color Microscopy Camera		#17-825	€2.705,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink M-Series M9M-CYL Microscopy Monochrome Camera	Monochrome Microscopy Camera		#17-826	€2.705,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Prosilica GT2050 1" Color CMOS Camera	Color Camera		#87-082	€2.810,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink PL-D757CU-T, 1.1" 7.1MP, C-Mount USB 3.0 Color Camera	Color Camera		#14-164	€2.810,00 Request Quote	CONTACT US 1 🛒
MORE+	Allied Vision Prosilica GT2050 1" Monochrome CMOS Camera	Monochrome Camera		#87-081	€2.810,00 Request Quote	CONTACT US 1 🛒

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	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+	Pixelink PL-D757MU-T, 1.1" 7.1MP, C-Mount USB 3.0 Monochrome Camera					CONTACT US 1 🛒
MORE+	LUCID Vision Atlas™ ATL120S-CC, Sony IMX253, 12.3MP, Color Camera	Color Camera		#13-734	€2.880,00 Request Quote	1 In Stock 1 🛒
MORE+	LUCID Vision Labs Atlas™ ATL120S-MC, Sony IMX253, 12.3MP, Monochrome Camera	Monochrome Camera		#13-733	€2.880,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink PL-D7912CU-T, 1.1" 12MP, C-Mount USB 3.0 Color Camera	Color Camera		#38-010	€2.915,00 Request Quote	1 In Stock 1 🛒
MORE+	Pixelink PL-D7912MU-T, 1.1" 12MP, C-Mount USB 3.0 Monochrome Camera	Monochrome Camera		#38-009	€2.915,00 Request Quote	1 In Stock 1 🛒
MORE+	BFS-U3-89S6C-C USB 3.1 Blackfly® S, Color Camera	Color Camera		#11-514	€2.930,00 Request Quote	2 In Stock 1 🛒
MORE+	BFS-U3-89S6M-C USB 3.1 Blackfly® S, Monochrome Camera	Monochrome Camera		#11-513	€2.930,00 Request Quote	1 In Stock 1 🛒
MORE+	M4060, 1" Monochrome, Teledyne DALSA Genie Nano 5GigE PoE Camera	Monochrome Camera		#16-030	€2.975,00 Request Quote	1 In Stock 1 🛒
MORE+	C4060-IR, 1" Color, Teledyne DALSA Genie Nano 5GigE PoE Camera	Color Camera		#16-031	€2.990,00 Request Quote	13 In Stock 1 🛒
MORE+	Basler Ace acA4096-40uc USB 3.0 Color Camera	Color Camera		#37-220	€3.130,00 Request Quote	1 In Stock 1 🛒
MORE+	Pixelink PL-D759CU-BL, 1" 8.9MP, Board Level USB 3.0 Color Camera	Color Camera		#11-443	€3.130,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink M-Series M12BC-CYL Microscopy Color Camera	Color Microscopy Camera		#17-809	€3.130,00 Request Quote	1 In Stock 1 🛒
MORE+	Pixelink PL-D759MU-BL, 1" 8.9MP, Board Level USB 3.0 Monochrome Camera	Monochrome Camera		#11-442	€3.130,00 Request Quote	CONTACT US 1 🛒
MORE+	Pixelink M-Series M12BM-CYL Microscopy Monochrome Camera	Monochrome Microscopy Camera		#17-810	€3.130,00 Request Quote	1 In Stock 1 🛒
MORE+	Oryx® ORX-10G-71S7C-C Color 10GigE	Color Camera		#20-251	€3.140,00 Request Quote	1 In Stock 1 🛒

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	Title	Type	Compare	Stock Number	Price ☐		Buy
MORE+	Oryx® ORX-10G-71S7M-C Mono 10GigE	Monochrome			€3.140,00	1 In Stock	1 🛒

	Title	Type	Compare	Stock Number	Price	Buy	
MORE+	Pixelink PL-D759CU-T, 1" 8.9MP, C-Mount USB 3.0 Color Camera					CONTACT US	1 🛒
MORE+	Pixelink PL-D759MU-T, 1" 8.9MP, C-Mount USB 3.0 Monochrome Camera	Monochrome Camera		#11-440	€3.240,00 Request Quote	1 In Stock	1 🛒
MORE+	BFS-U3-123S6C-C USB 3.1 Blackfly® S, Color Camera	Color Camera		#11-520	€3.270,00 Request Quote	1 In Stock	1 🛒
MORE+	BFS-U3-123S6M-C USB 3.1 Blackfly® S, Monochrome Camera	Monochrome Camera		#11-519	€3.270,00 Request Quote	1 In Stock	1 🛒
MORE+	M4040, 1.1" Monochrome, Teledyne DALSA Genie Nano GigE PoE Camera	Monochrome Camera		#14-697	€3.315,00 Request Quote	CONTACT US	1 🛒
MORE+	C4040-IR, 1.1" Color, Teledyne DALSA Genie Nano GigE PoE Camera	Color Camera		#14-698	€3.335,00 Request Quote	CONTACT US	1 🛒
MORE+	LUCID Vision Labs Atlas10 ATX162S-CC, Sony IMX532, 16.2MP, Color Camera	Color Camera		#17-119	€3.350,00 Request Quote	1 In Stock	1 🛒
MORE+	LUCID Vision Labs Atlas10 ATX162S-MC, Sony IMX532, 16.2MP, Monochrome Camera	Monochrome Camera		#17-118	€3.350,00 Request Quote	CONTACT US	1 🛒
MORE+	GS3-U3-89S6C-C 1" FLIR Grasshopper®3 High Performance USB 3.0 Color Camera	Color Camera		#36-338	€3.395,00 Request Quote	2 In Stock	1 🛒
MORE+	GS3-U3-89S6M-C 1" FLIR Grasshopper®3 High Performance USB 3.0 Monochrome Camera	Monochrome Camera		#36-337	€3.395,00 Request Quote	4 In Stock	1 🛒
MORE+	M4040, 1.1" Monochrome, Teledyne DALSA Genie Nano 5GigE PoE Camera	Monochrome Camera		#16-028	€3.430,00 Request Quote	CONTACT US	1 🛒
MORE+	C4040-IR, 1.1" Color, Teledyne DALSA Genie Nano 5GigE PoE Camera	Color Camera		#16-029	€3.450,00 Request Quote	CONTACT US	1 🛒
MORE+	GS3-U3-123S6C-C 1.1" FLIR Grasshopper®3 High Performance USB 3.0 Color Camera (Recertified 05-P)	Color Camera		#36-340-RCD-05P RECERTIFIED	€3.470,00 Request Quote	1 In Stock	1 🛒

	Title	Type	Compare	Stock Number	Price ☐	Buy	
MORE+	Basler Ace acA4112-30um 3.0 Monochrome Camera	Monochrome			€3.510,00	1 In Stock	1 🛒

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	Title	Type	Compare	Stock Number	Price	Buy	
MORE+	Basler Ace acA4112-30uc 3.0 Color Camera					1 In Stock	1 🛒
MORE+	Pixelink PL-D7512CU-BL, 1.1" 12.3MP, Board Level USB 3.0 Color Camera	Color Camera		#11-447	€3.560,00 Request Quote	CONTACT US	1 🛒
MORE+	Pixelink PL-D7512MU-BL, 1.1" 12.3MP, Board Level USB 3.0 Monochrome Camera	Monochrome Camera		#11-446	€3.560,00 Request Quote	CONTACT US	1 🛒
MORE+	GS3-U3-123S6C-C 1.1" FLIR Grasshopper®3 High Performance USB 3.0 Color Camera	Color Camera		#36-340	€3.635,00 Request Quote	1 In Stock	1 🛒
MORE+	GS3-U3-123S6M-C 1.1" FLIR Grasshopper®3 High Performance USB 3.0 Monochrome Camera	Monochrome Camera		#36-339	€3.635,00 Request Quote	1 In Stock	1 🛒
MORE+	Pixelink PL-D7512CU-T, 1.1" 12.3MP, C-Mount USB 3.0 Color Camera	Color Camera		#11-445	€3.670,00 Request Quote	1 In Stock	1 🛒
MORE+	Pixelink PL-D7512MU-T, 1.1" 12.3MP, C-Mount USB 3.0 Monochrome Camera	Monochrome Camera		#11-444	€3.670,00 Request Quote	1 In Stock	1 🛒
MORE+	Pixelink M-Series M12C-CYL Microscopy Color Camera	Color Microscopy Camera		#17-811	€3.780,00 Request Quote	1 In Stock	1 🛒
MORE+	Pixelink M-Series M12M-CYL Microscopy Monochrome Camera	Monochrome Microscopy Camera		#17-812	€3.780,00 Request Quote	1 In Stock	1 🛒
MORE+	LUCID Vision Labs Atlas10 ATX204S-CC, Sony IMX531, 20.4MP, Color Camera	Color Camera		#17-117	€4.015,00 Request Quote	CONTACT US	1 🛒
MORE+	LUCID Vision Labs Atlas10 ATX204S-MC, Sony IMX531, 20.4MP, Monochrome Camera	Monochrome Camera		#17-116	€4.015,00 Request Quote	CONTACT US	1 🛒
MORE+	Oryx® ORX-10GS-89S6C-C Color 10GigE	Color Camera		#19-793	€4.310,00 Request Quote	1 In Stock	1 🛒
MORE+	Oryx® ORX-10GS-89S6M-C Mono 10GigE	Monochrome Camera		#19-792	€4.310,00 Request Quote	1 In Stock	1 🛒

	Title ⇅	Type	Compare	Stock Number ⇅	Price ☐	Buy
MORE+	Oryx® ORX-10GS-89S6M-C Mono 10GigE (Recen... 05-P)				€4.495,00	1 In Stock 1 🛒
MORE+	BFS-PGE-123... Pol. PoE GigE Blackfly® S, Monochrome Camera				Quote	2 In Stock 1 🛒
MORE+	Oryx® ORX-10GS-123S6C-C Color 10GigE	Color Camera		#19-799	€4.665,00 Request Quote	2 In Stock 1 🛒
MORE+	Oryx® ORX-10GS-123S6M-C Mono 10GigE	Monochrome Camera		#19-798	€4.665,00 Request Quote	1 In Stock 1 🛒

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Resources

Media Type

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

📄 APPLICATION NOTE
Anti-Reflection (AR) Coatings

📄 APPLICATION NOTE
An Introduction to Optical Coatings

▶ VIDEO
Wavelength and f#

📄 APPLICATION NOTE
Understanding Focal Length and Field of View

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