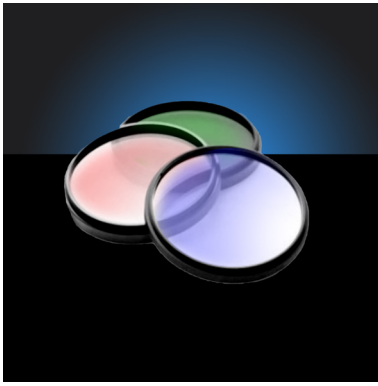


Filter Series



Our high quality filters can improve the work efficiency of vision systems and are suitable for using in different applications. These filters are available in different dimensions and with different threads. Please contact us for further details.

BP Filter

Middle Frequency	405	450	500	525	535	560	590	625	650
FWHM	55	45	110	60	65	110	65	45	40
Product No.	EOP1111	EOP1112	EOP1113	EOP1114	EOP1115	EOP1116	EOP1117	EOP1118	EOP1119
Middle Frequency	695	735	800	850	880	950	1300		
FWHM	35	45	100	20	65	60	25		
Product No.	EOP1120	EOP1121	EOP1122	EOP1123	EOP1124	EOP1125	EOP1126		

LP Filter

Cut-off Frequency	425	490	500	550	585	640	700	775	835
Product No.	EOP1141	EOP1142	EOP1143	EOP1144	EOP1145	EOP1146	EOP1147	EOP1148	EOP1149
Cut-off Frequency	920	945	1000						
Product No.	EOP1150	EOP1151	EOP1152						

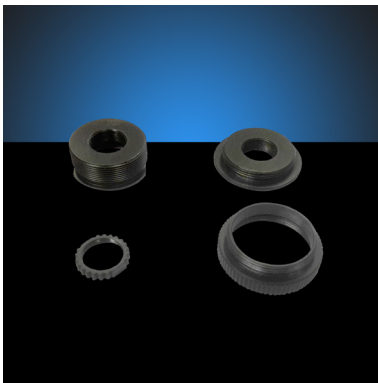
UV & IR-CUT Filter

Cut-off Frequency	425
Product No.	EOP1161

Available with the following threads

C-Mount	M22,5X0,5	M25,5X0,5	M27X0,5	M30,5X0,5
M34X0,5	M35,5X0,5	M37X0,75	M37,5X0,5	M40,5X0,5
M43X0,75	M46X0,75	M49X0,75	M52X0,75	M55X0,75
M58X0,75	M62X0,75	M67X0,75	M68X0,75	M72X0,75
M77X0,75	M82X0,75	M86X0,75	M95X1,0	M105X1,0

Adapter Ring



These high quality adapter rings allow the usage of lenses with different mounts for your camera.

Product No.	Product name	Description
EOP0120	C to S-Mount Adapter	This adapter ring allows to apply a M12-mount lens with a C-mount camera.
EOP0121	CS to S-Mount Adapter	This adapter ring allows to apply a M12-mount lens with a CS-mount camera.
EOO0122	CS to C-Mount Adapter	5mm intermediate ring allows to apply a C-mount lens for a CS-mount camera.
EOO0122L	CS to C-Mount Adapter	10 mm intermediate ring allows to apply a C-mount lens for a CS-mount camera.
EOP0119	S-Mount Lock Ring	Lock ring to fix a S-mount lens

Industrial USB Cable



We offer different industrial USB cables for camera systems. The connectors can be fixed by screws. Customised design is possible as well.

Product No.	Type	Description
EOC5205	USB 3.0	Type A port to micro B port with screw
EOC5206	USB 3.0	Type A port to micro B port with screw. 90° angle
EOC5207	USB 3.0	Type A port with screw to micro B port with screw
EOC5208	USB 3.0	Type A port with screw to micro B port with screw. 90° angle
EOC5106	USB 2.0	Type A port to mini B port with Screw
EOC5107	USB 2.0	Type A port with screw to mini B port with screw. 90° angle

Technical data

Type	USB 3.0	USB 2.0
Max. data rate	5 Gbit/s	480 Mbit/s
Cable length	from 0.5m to 5m customised	from 0.5m to 5m customised
Colour	Blue or black	black
Shielding	Triple (braided, foil and data lines with additional foil)	Double (braided and foil)
Data line	Twisted	Twisted
Noise suppression	Ferrite core (from 1m cable length)	Ferrite core (from 1m cable length)
AWG	#28 data. #24 current	#28 data. #24 current
Conductive material	Copper	Copper
Connector	Nickel plated	Nickel plated
Pins	Gold plated	Gold plated
Diameter	5.5 mm	4.0 mm

- C/CS Mount Lens
- S Mount Lens
- Filter Series
- Adapter Ring
- Industrial USB Cable

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EOinnovations GmbH

Your industrial distributor in electro-optics



Components for Vision Systems

EOinnovations GmbH

Your industrial distributor in electro-optic

EOinnovations GmbH supplies variety of electro-optical components and accessories for the industrial market. Working closely with our competent partners in Asian, we choose reliable producers after our custom criterion and are able to delivery qualitative and inexpensive products for a long term. We guarantee the quality of the products through independent tests in Germany.

C/CS Mount Lens



These high quality lenses are suitable for all common machine vision applications.

- Glas lenses and metal hausing.
- Only lenses for sensor formats between 1/2" and 4/3" are listed below, other formats are available upon request
- Only lenses with fixed focal length are listed, the lenses with variable focal lengths (Zoom Lenses) are available upon request
- ROHS Compliant

Fix focal length

Focal length (mm)	3.2	4	4	5	6	6	6	6.5	6.5	7	8	8
Max. sensor format	1/1.7"	1/2"	1/2"	2/3"	1/2"	1/2"	1.1"	1"	1"	1"	1/2"	1/1.8"
F#	2.0	2.0~16	1.4~32	1.8~11	1.4~32	1.4~16	2.5	1.4~16	2.0~ 22	2.5	1.4~32	1.8
Max. resolution (MP)	12	2	5	10	2	5	12	2	5	12	2	12
Diag. distortion (%)	-60.00	<-3.8	<-1.2	<-6.5	<-2	<-2	<0,3	<-21	<-8	<61	<-3	<-17
Mount	CS	C	C	C	C	C	C	C	C	C	C	CS
Dimension (mm)	Ø28×34.8	Ø44×35.2	Ø54×50.2	Ø65×42.3	Ø32×33.1	Ø38×55	Ø65×50.1	Ø46×44.4	Ø55×44.7	Ø34×43.3	Ø32×38	Ø28×31.9
BFL (mm)	6.4	8.8	10.7	8.21	10.55	10	9.7	9.75	8.84	9.7	11.8	9.6
Iris	fixed	manual	manual	manual	manual	manual	manual	manual	manual	manual	manual	fixed
Product No.	EOP0523	EOP532	EOP0525	EOP0534	EOP0535	EOP0536	EOP0590	EOP0538	EOP0539	EOP0591	EOP0540	EOP0524

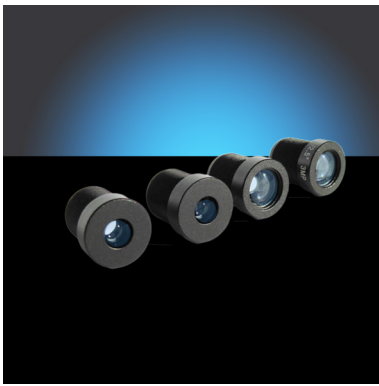
Focal length (mm)	8	8	8	8	9	12	12	12	12	12	12	16
Max. sensor format	2/3"	2/3"	2/3"	1"	2/3"	2/3"	2/3"	1"	1,1"	1,1"	4/3"	1/2"
F#	1.8~16	1.4~32	1.8	1.4	1.8~16	1.4~22	1.8~32	1.8~32	2.8	2.8	2.4~32	2.0
Max. resolution (MP)	3	5	10	8	3	5	10	5	12	20	5	5
Diag. distortion (%)	<-0.5	<-2	<-2	<-3	<-1	<-0.3	<-2	<-3	<0.5	<-1	<-2	2.34
Mount	C	C	C	C	C	C	C	C	C	C	C	CS
Dimension (mm)	Ø39×45.8	Ø38×51.4	Ø40×52.7	Ø67×74.9	Ø29×31.3	Ø38.5×47	Ø38×48.3	Ø80×94.7	Ø50×65.5	Ø46.5×65.5	Ø80×105	Ø28×31.7
BFL (mm)	12.8	9.3	13.2	10.2	10.3	10.5	16.7	11.3	12.1	12.1	22.25	11.5
Iris	manual	manual	manual	manual	manual	manual	manual	manual	manual	manual	manual	fixed
Product No.	EOP0543	EOP0544	EOP0545	EOP0526	EOP0546	EOP0549	EOP0550	EOP0528	EOP0592	EOP0604	EOP0551	EOP0552

Focal length (mm)	16	16	16	16	16	16	16	20	20	25	25	25
Max. sensor format	2/3"	2/3"	1"	1"	1.1"	1.1"	4/3"	1"	4/3"	1/2"	2/3"	2/3"
F#	1.4~22	1.8~22	1.4	2.0~22	2.3	2.8	2.0~32	2.0~22	1.4	2.4	1.4~16	1.8~32
Max. resolution (MP)	5	10	8	5	12	20	5	5	12	5	5	10
Diag. distortion (%)	<-0.4	<-2	<-3	<-1	<0.5	<-1	<-1	<-0.5	<-0.3	<-0.5	<-0.2	<-0.1
Mount	C	C	C	C	C	C	C	C	C	CS	C	C
Dimension (mm)	Ø38.5×47	Ø38×52.6	Ø38×68.7	Ø46×73.84	Ø46×69	Ø39×60.2	Ø76×101.7	Ø40×47	Ø55×118.3	Ø28×31.5	Ø38.5×35.2	Ø38×40.7
BFL (mm)	10.8	13.5	10.8	12.8	12.5	10.2	21.9	15.2	21.1	11.8	9.8	10.5
Iris	manual	manual	manual	manual	manual	manual	manual	manual	manual	fixed	manual	manual
Product No.	EOP0601	EOP0556	EOP0520	EOP0558	EOP0593	EOP0605	EOP0559	EOP0554	EOP0555	EOP0560	EOP0563	EOP0564

Focal length (mm)	25	25	25	25	25	35	35	35	35	35	35	35
Max. sensor format	1"	1.1"	1.1"	4/3"	4/3"	2/3"	2/3"	1"	1.1"	1.1"	4/3"	4/3"
F#	1.4	2	2.8	2.0~32	1.4	1.4~16	1.8~16	1.4	2	2.8	2.0~22	1.4
Max. resolution (MP)	8	12	20	5	12	5	10	8	12	20	5	12
Diag. distortion (%)	<-3	<0.25	<0.6	<-0.1	<-2.5	<-0.1	<-0.1	<-3.2	<0.15	<0.3	<-1.5	<-0.2
Mount	C	C	C	C	C	C	C	C	C	C	C	C
Dimension (mm)	Ø38×64.5	Ø45×75.2	Ø39×55.2	Ø38.5×102.9	Ø58×117.8	Ø38.5×39	Ø39×43.8	Ø38×48.6	Ø46×77.5	Ø37.5×58.2	Ø42×103.8	Ø58×116.7
BFL (mm)	15.6	13.7	13.2	22.1	22.7	13.5	12.4	12.8	13.2	10.8	22.3	21.2
Iris	manual	manual	manual	manual	manual	manual	manual	manual	manual	manual	manual	manual
Product No.	EOP0521	EOP0594	EOP0606	EOP0567	EOP0568	EOP0571	EOP0602	EOP0522	EOP0595	EOP0607	EOP0574	EOP0575

Focal length (mm)	50	50	50	50	50	50	75	75	75
Max. sensor format	2/3"	2/3"	1"	1.1"	1.1"	4/3"	2/3"	2/3"	1.1
F#	2.0~32	1.8~22	1.2	2.2	2.8	1.4	2.4~22	2.0~32	2.6
Max. resolution (MP)	5	10	8	12	20	12	2	5	12
Diag. distortion (%)	<-0.3	<-0.1	<-0.5	<-0.1	<-0.1	<-3	<-0.4	<-0.2	<-0.5
Mount	C	C	C	C	C	C	C	C	C
Dimension (mm)	Ø38.5×45.3	Ø44×43.8	Ø58×76.1	Ø49×103	Ø39×53	Ø58×99.5	Ø36×55.3	Ø42×68.7	Ø50×96.4
BFL (mm)	10.3	14.2	24.8	14.3	10.8	24.1	16.7	10.2	15.9
Iris	manual	manual	manual	manual	manual	manual	manual	manual	manual
Product No.	EOP0578	EOP0603	EOP0579	EOP0596	EOP0608	EOP0581	EOP0582	EOP0583	EOP0597

S-Mount Lens



These high quality lenses are suitable for all common machine vision applications.

- Glas lenses and metal housing
- IR-cut filter is for most products available
- Only lenses with fixed focal length are listed, the lenses with variable focal lengths (Zoom Lenses) are available
- Other models are available upon request.
- ROHS Compliant

Fish-Eye Lens

Focal length (mm)	1	1.1	1.3	1.38	1.4	1.55	1.6	1.7	1.8	1.8	1.85
Imager format	Ø3.27	Ø3.6	1/2.3"	Ø4.72	1/2.3"	Ø4.7	Ø4.6	Ø4.82	Ø5.3	1/2.3"	Ø5.6
F#	2.2	2.2	2.0	2.1	2.2	2.0	2.0	2.0	2.8	2.4	2.0
Max. resolution (MP)	5	10	9	3	5	12	5	8	3	16	12
Dimension (mm)	Ø24×20.33	Ø25.3×24.1	Ø32×33.2	Ø17×14.75	Ø34×33	Ø27.7×22.6	Ø20×16.32	Ø26×26.2	Ø26×21.5	Ø17×17.7	Ø34×29.7
BFL (mm)	2.72	2.78	3.0	1.76	3.5	4.72	4.94	5.78	3.9	2.4	5.56
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0711	EOP0727	EOP0726	EOP0712	EOP0741	EOP0713	EOP0722	EOP0714	EOP0715	EOP0740	EOP0723

Distortion Corrected Lens

Focal length (mm)	2.7	3	3.5	3.6	4.1	4.2	4.5	5.4	5.5	5.5	5.5	6
Max. sensor format	1/2.3"	1/2.5"	1/2"	1/4"	1/2.5"	1/1.8"	1/1.8"	1/1.8"	1/1.8"	1/1.8"	1/1.8"	1/3"
F#	2.3	4	2.4	3.8	3	1.8	4.5	1.8	1.8	1.6	2.5	2.0
Max. resolution (MP)	10	5	2	5	5	2	10	10	2	2	3	3
Diag. distortion (%)	<-4	<1.5	<-1	<-4	<0.2	<-5	<-4	<-2	<-3	<-1	<-2.5	<-3
Dimension (mm)	Ø18×24.2	Ø14×18.5	Ø30×31.8	Ø14×18.8	Ø14×18	Ø25×22.8	Ø14×18.67	Ø14×19.1	Ø24×23.6	Ø15×20	Ø17×21.3	Ø15×16.7
BFL (mm)	4.1	3.8	5.93	3.22	3.4	6.3	4.9	6.2	6.57	5.6	5.8	6.63
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0771	EOP0789	EOP0772	EOP0773	EOP0774	EOP0135	EOP0832	EOP0132	EOP0776	EOP0783	EOP0790	EOP0777

Focal length (mm)	6	6	7.2	7.4	8	8	8	8.4	8.5
Max. sensor format	1/1.8"	1/1.8"	1/2.3"	1/2.5"	1/2.5"	1/1.8"	1/1.8"	1/1.8"	1/1.8"
F#	2	2.5	2.4	3.2	1.6	1.8	2.5	3	2.5
Max. resolution (MP)	2	3	12	5	3	5	3	5	3
Diag. distortion (%)	<5	<5	<-1	<-1.5	<-4	<-1.5	<-3	<-2	<-1
Dimension (mm)	Ø19×22.9	Ø17×23.2	Ø19×25.7	Ø14×11.2	Ø14×16.7	Ø22×27.6	Ø14×15.1	Ø14×12.1	Ø14×22.1
BFL (mm)	9.3	7.9	7.54	2.78	6.6	6.75	7.8	2.9	6.8
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0784	EOP0791	EOP0779	EOP0780	EOP0786	EOP0781	EOP0823	EOP0793	EOP0794

Non Corrected Lens

Focal length (mm)	2.3	2.5	2.5	2.8	2.8	2.8	2.8	2.9	2.9	3	3.2
Max. sensor format	1/3"	1/3"	1/2.5"	1/2.7"	1/2.5"	1/2.5"	1/2.3"	1/2.5"	1/2.5"	1/1.8"	1/3"
F#	2.5	2.5	2.4	2.3	2.0	2.2	2.0	1.6	2.0	2.8	2.5
Max. resolution (MP)	5	5	5	3	5	8	5	5	5	8	1
Diag. distortion (%)	N/A	<33	<-92	<65	N/A	N/A	<-91	<70	<75	N/A	N/A
Dimension (mm)	Ø14×18.9	Ø14×10.8	Ø14×22.5	Ø14×15.9	Ø17×15.8	Ø17×20	Ø17×15.9	Ø17×22.2	Ø14×25.8	Ø25×28.4	Ø16×10.3
BFL (mm)	4.3	4.6	5.1	5.5	5.5	5.95	5.2	5.5	5.3	7.2	3.7
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0845	EOP0846	EOP0139	EOP0880	EOP0849	EOP0851	EOP0848	EOP0825	EOP0852	EOP0583	EOP0114

Focal length (mm)	3.2	3.6	3.6	4	4	4	4	4.1	4.5	4.8	5	6
Max. sensor format	Ø8.7	1/2.7"	1/2.5"	1/2.5"	1/2"	1/1.8"	1/1.8"	1/2.3"	1/1.8"	1/3"	1/1.8"	1/3"
F#	2.0	2.6	1.8	1.8	1.8	2.0	2.2	2.5	2.0	2.0	2	1.8
Max. resolution (MP)	12	3	5	5	5	8	8	16	8	5	12	2
Diag. distortion (%)	N/A	N/A	<63	<-44	<58	N/A	N/A	N/A	-33	<-9	<-46	N/A
Dimension (mm)	Ø28×35	Ø14×15.2	Ø14×17.8	Ø14×17.7	Ø14×17.7	Ø20×26.5	Ø18×20.7	Ø17×21	Ø20×25.1	Ø27×35	Ø17×29.1	Ø14×15.1
BFL (mm)	6	5.3	7	5.7	7.9	6.8	6.5	3.7	7.55	7	6.79	8.44
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0116	EOP0811	EOP0855	EOP0129	EOP0857	EOP0859	EOP0860	EOP0877	EOP0830	EOP0878	EOP0117	EOP0134

Focal length (mm)	6	6	7.8	8	8	8	8	8	9.6	12	12	12
Max. sensor format	1/2.5"	1/2.5"	1/1.8"	1/2.5"	1/2.5"	1/2.5"	1/1.8"	1/1.8"	1/2.7	1/2.5"	1/2.5"	1/1.8"
F#	2.4	1.8	2.0	1.8	1.8	2.0	2.6	1.8	2.0	2.0	2.0	2.8
Max. resolution (MP)	3	5	8	3	3	5	8	12	5	3	5	5
Diag. distortion (%)	<-17	<-22	<-3	<-11	<9	<-9	N/A	<-14	<-4	<-6	<-5	<-2
Dimension (mm)	Ø14×16.9	Ø14×17.1	Ø17×30	Ø14×20	Ø14×16.8	Ø14×16.1	Ø22×28	Ø17×32.7	Ø24×23.1	Ø14×16.4	Ø14×16.4	Ø14×18
BFL (mm)	7.8	7.6	5.8	6.5	7.8	7.8	8.1	9.8	2.5	6.8	7.8	8.7
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0133	EOP0115	EOP0864	EOP0110	EOP0814	EOP0815	EOP0880	EOP0118	EOP0865	EOP0111	EOP0826	EOP0840

Focal length (mm)	12	12	12	12	12	14.2	16	16	16	16	21.6	25
Max. sensor format	1/1.8"	1/1.8"	1/1.8"	2/3"	2/3"	1/1.8"	1/2"	1/1.8"	2/3"	2/3"	1/1.8"	1/2"
F#	5.6	1.8	2.0	2.8	2.5	2.8	2.0	2.5	2.2	2.0	2.8	2.4
Max. resolution (MP)	5	8	8	10	10	12	5	3	10	10	12	5
Diag. distortion (%)	<-2	<-2	<-2	<0.2	<2	<-2	<-3.5	<-0.2	<3.5	<-2	<-1	<-1.5
Dimension (mm)	Ø14×10	Ø15×19.2	Ø15×20.9	Ø14×14.8	Ø14×25	Ø14×15.5	Ø14×16.2	Ø14×20.5	Ø14×14.8	Ø14×25.2	Ø16×23.2	Ø14×20.2
BFL (mm)	8.7	6.7	5.9	4.9	6.1	5.8	7.2	5.4	7.2	6.3	7	11.7
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0827	EOP0137	EOP0866	EOP0835	EOP0836	EOP0867	EOP0112	EOP0868	EOP0837	EOP0838	EOP0869	EOP0113

Focal length (mm)	25	25	25	25	30	35	35	50	50
Max. sensor format	1/1.8"	2/3"	2/3"	2/3"	1/2.8"	1/2"	2/3"	1/2"	2/3"
F#	3.0	1.7	2.5	2.0	2.8	2.5	2.8	2.5	4
Max. resolution (MP)	3	5	10	10	2	5	10	5	10
Diag. distortion (%)	<-0.2	<-3	<-0.8	<-0.2	<1	<0.1	<-0.3	<-0.2	<-0.3
Dimension (mm)	Ø14×22.2	Ø17×21.8	Ø17×22	Ø20×23.5	Ø15×22.2	Ø20×33.6	Ø22×29	Ø25×49.2	Ø22×61.5
BFL (mm)	6.5	5.4	8.5	8.6	5.2	14.2	20.2	18.9	28
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0872	EOP0873	EOP0870	EOP0871	EOP0874	EOP0816	EOP0875	EOP0817	EOP0876