

E0innovations Components

Your industrial distributor in ectro-optics



Components for Vision Systems

EOinnovations Components

Your industrial distributor in electro-optic

EOinnovations Components 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 housing.
- Only Lenses for sensor formats between 1/2" and 4/3" are listed below, other formats are available upon request
- ROHS Compliant

Fix focal length

Focal length (mm)	2.9	3.2	4	4	4	5	6	6	6.5	6.5
Max. sensor format	1/1.8"	1/1.7"	1/2"	1/2"	1/1.8"	2/3"	1/2"	1/1.8"	1"	1"
F#	2.0	2.0	2.0-16	1.4-32	1.8	1.8	1.4-32	1.6-16	1.4-16	2.0-∞
Max. resolution (MP)	3	12	2	5	3	10	2	5	2	5
Diag. distortion (%)	N/A	-60.00	<-3.8	<-1.2	N/A	<-6.5	<-2	<-3	<-21	<-8
Mount	CS	CS	C	C	CS	C	C	C	C	C
Dimension (mm)	Ø28×12.0	Ø28×34.8	Ø44×35.2	Ø54×50.12	Ø30×17.9	Ø65×42.3	Ø32×33.1	Ø38×46.75	Ø46×44.4	Ø55×44.7
BFL (mm)	7.79	6.4	8.83	10.68	8.7	8.21	10.55	7.3	9.75	8.84
Iris	fixed	fixed	manual	manual	fixed	manual	manual	manual	manual	manual
Product No.	EOP0531	EOP0523	EOP532	EOP0525	EOP533	EOP534	EOP535	EOP0537	EOP0538	EOP0539

Focal length (mm)	7.2	8	8	8	8	8	8	8	8	9
Max. sensor format	2/3"	1/2"	1/1.8"	1/1.8"	1/1.8"	2/3"	2/3"	2/3"	1"	2/3"
F#	2.4	1.4-32	1.8	1.4-16	1.8	1.8-16	1.4-32	1.8	1.4	1.8-∞
Max. resolution (MP)	10	2	5	5	12	3	5	10	8	3
Diag. distortion (%)	<1.3	<-3	N/A	<-3	<-17	<-0.5	<-2	<-2	<-3	<-2
Mount	CS	C	CS	CS	CS	C	C	C	C	C
Dimension (mm)	Ø30×24.9	Ø32×37.9	Ø30×19.5	Ø29×38.8	Ø28×31.87	Ø39×46.1	Ø38×51.4	Ø40×52.74	Ø67×74.9	Ø29×31.3
BFL (mm)	6.98	11.87	10.34	9.45	9.55	9.87	9.32	13.23		10.33
Iris	fixed	manual	fixed	manual	fixed	manual	manual	manual	manual	manual
Product No.	EOP0527	EOP0540	EOP0541	EOP0542	EOP0524	EOP0543	EOP0544	EOP0545	EOP0526	EOP0546

Focal length (mm)	12	12	12	12	16	16	16	16	16	16
Max. sensor format	2/3"	2/3"	1"	4/3"	1/2"	2/3"	2/3"	1"	1"	4/3"
F#	1.6~16	1.8	1.8~	2.4~32	2.0	1.6~16	1.8	1.4	2.0~32	2.4~32
Max. resolution (MP)	5	10	5	5	5	5	10	8	5	5
Diag. distortion (%)	<-3	<-2	<-3	<-2	2.34	<-3	<-2	<-3	<-1	<-1
Mount	C	C	C	C	CS	C	C	C	C	C
Dimension (mm)	Ø29×37.5	Ø38×48.3	Ø80×94.7	Ø80×105	Ø28×31.7	Ø33×41.2	Ø38×52.6	Ø38×68.78	Ø46×73.84	Ø76×101.7
BFL (mm)	8.76	16.77	11.32	22.25	11.5	10.87	12.54	10.79	12.76	21.9
Iris	manual	manual	manual	manual	fixed	manual	manual	manual	manual	manual
Product No.	EOP0547	EOP0550	EOP0528	EOP0551	EOP0552	EOP0553	EOP0556	EOP0520	EOP0558	EOP0559

Focal length (mm)	20	20	25	25	25	25	25	25	35	35
Max. sensor format	1"	4/3"	1/2"	2/3"	2/3"	1"	4/3"	4/3"	2/3"	1"
F#	2.0~22	1.4	2.4	1.8~16	1.8	1.4	2.0~32	1.4	2.0~16	1.4
Max. resolution (MP)	5	12	5	5	10	8	5	12	5	8
Diag. distortion (%)	<-0.2	<-0.3	<-0.5	<-0.7	<-0.1	<-3	<-0.1	<-2.5	<-1.5	<-3.2
Mount	C	C	CS	C	C	C	C	C	C	C
Dimension (mm)	Ø40×47	Ø55×118.3	Ø28×31.5	Ø33×27.2	Ø38×40.7	Ø38×643.8	Ø38.5×102.9	Ø58×117.8	Ø33×29.2	Ø38×48.6
BFL (mm)	15.19	21.1	11.8	9.8	12.91	15.6	22.1	22.7	11.3	12.8
Iris	manual	manual	fixed	manual	manual	manual	manual	manual	manual	manual
Product No.	EOP0554	EOP0555	EOP560	EOP0561	EOP564	EOP521	EOP567	EOP0568	EOP0569	EOP0522

Focal length (mm)	35	35	50	50	50	75	75	75
Max. sensor format	4/3"	4/3"	2/3"	1"	4/3"	2/3"	2/3"	1"
F#	2.0~22	1.4	2.5~16	1.2	1.8	2.0~24	2.0~22	2.8~16
Max. resolution (MP)	5	12	5	8	12	2	5	5
Diag. distortion (%)	<-1.5	<-0.2	<-0.3	<-0.5	<-3	<-0.4	<-0.2	<-0.1
Mount	C	C	C	C	C	C	C	C
Dimension (mm)	Ø42×103.8	Ø58×116.7	Ø33×46.8	Ø58×76.1	Ø58×99.5	Ø36×55.3	Ø42×68.7	Ø40×63.8
BFL (mm)	34.9	21.2	17.7	24.8	24.1	16.7	10.2	17.9
Iris	manual	manual	manual	manual	manual	manual	manual	manual
Product No.	EOP0574	EOP0575	EOP576	EOP0579	EOP581	EOP582	EOP0583	EOP0584

C/CS-Mount Zoom Lens

Focal length (mm)	2.4~6.0	5.0~50	3~9	6~15	5~50	2.5~7.5	3.3~12	2.8~12	4.0~12	8~16
Max. sensor format	1/3"	1/3"	1/3"	1/3"	1/2.7"	1/2.7"	1/2.7"	1/2"	1/2"	1/2"
F#	1.6	1.6	1.4	1.6	1.4	1.8	1.8	1.6	1.4	1.6
Max. resolution (MP)	3	1.3	1.3	1.3	3	3	3	2	2	3
Mount	CS	CS	CS	CS	CS	CS	CS	C	CS	CS
Dimension (mm)	Ø32×37.6	Ø45×65.9	Ø30×33.8	Ø32×56.2	Ø47×85.8	Ø39×39.1	Ø32×42.7	Ø43×67.1	Ø33×45.8	Ø33×47.9
BFL (mm)	5.9~10.1	7.3~12.3	6.8~11.2	12.1~ 18.2	6.8~7.6	12.8	6.6~14.2	N/A	6.97~12.75	8.2~11.7
Focus	manual	manual	manual	manual	manual	manual	manual	manual	manual	manual
Iris	manual	manual	manual	manual	manual	manual	manual	manual	manual	manual
Zoom	manual	manual	manual	manual	manual	manual	manual	manual	manual	manual
Product No.	EOP621	EOP622	EOP623	EOP0624	EOP627	EOP628	EOP629	EOP0630	EOP0631	EOP0632

Focal length (mm)	12~40	4~18	12~36	10~40	16~32
Max. sensor format	1/2"	1/1.8"	2/3"	2/3"	1"
F#	1.8	1.6	2.8	1.8	1.8~16
max. resolution (MP)	3	3	2	3	5
Mount	CS	C	C	C	C
Dimension (mm)	Ø33×51.1	Ø49×74.2	Ø38×53.7	Ø44×70.7	Ø66×113.1
BFL (mm)	6.8~9.1	8.3	10.8	N/A	21.58
Focus	manual	manual	manual	manual	manual
Iris	manual	manual	manual	manual	manual
Zoom	manual	manual	manual	manual	manual
Product No.	EOP0633	EOP0635	EOP635	EOP0636	EOP637

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
- Other models are available upon request.
- ROHS Compliant

Fish-Eye Lens

Focal length (mm)	1	1.1	1.38	1.45	1.55	1.6	1.7	1.8	1.85	2.1
Imager format	Ø3.27	Ø3.6	Ø4.72	Ø4.6	Ø4.7	Ø4.6	Ø4.82	Ø5.3	Ø5.6	Ø4.8
F#	2.2	2.2	2.1	2.2	2.0	2.0	2.0	2.8	2.0	2.2
Max. resolution (MP)	5	10	3	10	12	5	8	3	12	3
Dimension (mm)	Ø24×20.33	Ø25.3×24.1	Ø17×14.75	Ø26×28.6	Ø27.7×22.6	Ø20×16.32	Ø26×26.2	Ø26×21.5	Ø34×29.7	Ø14×10.56
BFL (mm)	2.72	2.78	1.76	4.73	4.72	4.94	5.78	3.9	5.56	3.37
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0711	EOP0727	EOP0712	EOP0725	EOP0713	EOP0722	EOP0714	EOP0715	EOP0723	EOP0724

Distortion Corrected Lens

Focal length (mm)	2	2.7	3.5	3.5	3.5	3.6	4.1	4.2	4.5	4.5	4.5
Max. sensor format	1/4"	1/2.3"	1/3"	1/2.5"	1/2"	1/4"	1/2.5"	1/1.8"	1/3"	1/2.5"	1/1.8"
F#	2.8	2.3	1.6	1.8	2.4	3.8	3	1.8	1.6	1.8	1.8
Max. resolution (MP)	1	10	1	2	2	5	5	2	1.3	2	3.5
Diag. distortion (%)	<-4	<-4	<-3	<-2	<-1	<-4	<0.2	<-5	<-2.3	<-1.6	<-3.3
Dimension (mm)	Ø12×12.2	Ø19×21.7	Ø22×21.32	Ø24×18.71	Ø30×31.8	Ø16.4×15.1	Ø14×22.0	Ø25×22.73	Ø22×21.82	Ø24×23.1	Ø26×24.7
BFL (mm)	3.38	4.1	6.2	5.66	5.93	3.22	3.4	N/A	5.76	6.56	6.7
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0770	EOP0771	EOP0124	EOP0126	EOP0772	EOP0773	EOP0774	EOP0135	EOP0775	EOP0782	EOP0785

Focal length (mm)	5.4	5.5	5.5	6	6	6.2	7.2	7.4	8
Max. sensor format	1/1.8"	1/1.8"	1/1.8"	1/3"	1/1.8"	1/2.5"	1/2.3"	1/2.5"	1/1.8"
F#	1.8	1.8	1.6	2.0	2	1.8	2.4	3.2	1.8
Max. resolution (MP)	10	2	2	3	1	3	10	5	5
Diag. distortion (%)	<-1.5	<-3	<-1	<-3	<5	<-2	<-1	<-1.5	<-1.5
Dimension (mm)	Ø14×19.1	Ø24×23.6	Ø15×22.4	Ø15×16.7	Ø19×22.9	Ø30×19.3	Ø19×25.7	Ø14×11.2	Ø22×27.66
BFL (mm)	6.2	6.57	5.6	6.63	N/A	7.32	7.54	2.78	6.75
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0132	EOP0776	EOP0783	EOP0777	EOP0784	EOP0778	EOP0779	EOP0780	EOP0781

Non Corrected Lens (continued in the next page)

Focal length (mm)	2.8	2.8	3.2	3.2	3.6	3.6	4	4	5	6	6	6
Max. sensor format	1/2.7"	1/2.5"	1/3"	Ø8.7	1/3"	1/2.7"	1/2.5"	1/2.5"	1/1.8"	1/3"	1/2.5"	1/2.5"
F#	2.0	2.2	2.5	2.0	2	2.6	1.8	1.8	1.8	1.8	2.4	1.2
Max. resolution (MP)	3	3	1	12	1	3	3	5	12	2	3	3
Diag. distortion (%)	N/A	N/A	N/A	N/A	N/A	N/A	-42.8	<-44	<-46	N/A	<-17	<-18
Dimension (mm)	Ø14×17.3	Ø14×14.3	Ø16×10.7	Ø28×34.87	Ø14×14.8	Ø14×15.2	Ø14×17.9	Ø14×17.7	Ø17×29.1	Ø14×15.1	Ø14×16.9	Ø14×32.2
BFL (mm)	5.2	4.3	3.71	5.77	5.76	5.3	5.78	6.1	6.79	8.44	7.8	5.36
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0810	EOP0130	EOP0114	EOP0116	EOP0125	EOP0811	EOP0812	EOP0129	EOP0117	EOP0134	EOP0133	EOP0813

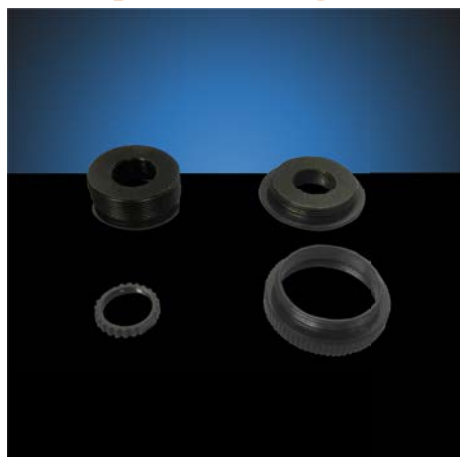
Non Corrected Lens (continued)

Focal length (mm)	6	8	8	8	8	12	12	16	25	35	50
Max. sensor format	1/2.5"	1/2.5"	1/2.5"	1/2.5"	1/1.8"	1/2.5"	1/1.8"	1/2"	1/2"	1/2"	1/2"
F#	1.8	1.8	1.8	1.8	2.0	2.0	1.8	2.0	2.4	2.5	2.5
Max. resolution (MP)	5	3	3	5	12	3	8	5	5	5	5
Diag. distortion (%)	<-22	<-11	<-9	<-9	<-14	<6	<-2	<-3.5	<-1.5	<0.03	<0.2
Dimension (mm)	Ø14×17.1	Ø14×19.87	Ø14×16.73	Ø14×16.1	Ø17×32.7	Ø14×16.4	Ø15×18.9	Ø14×15.87	Ø14×20.2	Ø20×33.6	Ø 25×49.2
BFL (mm)	7.6	6.1	7.8	7.8	9.85	6.8	6.5	2.73	11.7	14.2	18.83
Iris	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Product No.	EOP0115	EOP0110	EOP0814	EOP0815	EOP0818	EOP0111	EOP0137	EOP0112	EOP0113	EOP0816	EOP0817

S-Mount Zoom Lens

Focal length (mm)	2.8~12	6~22	3.3~10
Max. sensor format	1/2.7"	1/2.5"	1/2.5"
F#	1.5	1.7	1.3
Max. resolution (MP)	3	5	3
Dimension (mm)	Ø28×41.4	Ø28×45.8	Ø28×39.7
BFL (mm)	5.83	6.2	7.5
Iris	fixed	fixed	fixed
Focus	manual	manual	manual
Zoom	manual	manual	manual
Product No.	EOP0751	EOP0752	EOP0753

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.
EOP0122	CS to C-Mount Adapter	5mm 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
- Adapter Ring
- Industrial USB Cable

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