

Cobra Series Fixed Focal Length Lenses NEW

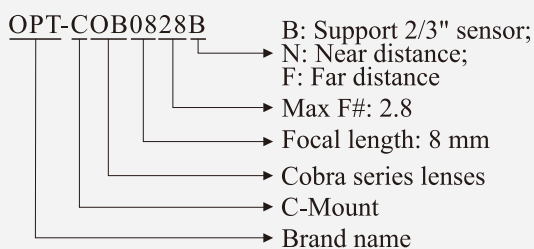


Product Features

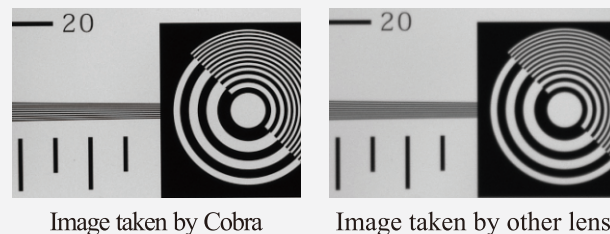
- **Compact design**
Ø29 mm diameter compatible with camera size; compact and small
- **High resolution**
Compatible with cameras which pixel size $\geq 2.2 \mu\text{m}$ and max. $2/3''$ (Ø11 mm)^[1] sensor; resolution up to 230 lp/mm in full FOV
- **Wide spectrum range**
400-1000 nm optical coating spectrum; compatible with VIS and NIR.
- **Low distortion**
TV distortion $< 0.2\%$ ^[2]
- **High relative illumination**
Chief ray angle $< 5^\circ$ ^[3], matching with cameras enables to realize high evenness image.

[1] The sensor size of applicable cameras to OPT-COB0828, OPT-COB1228 and OPT-COB1628 is up to $1/1.8''$ (Ø9 mm).
[2] OPT-COB0628B and OPT-COB0828B TV distortion $< 0.56\%$.
[3] OPT-COB0628F and OPT-COB0628B chief ray angle $< 7^\circ$.

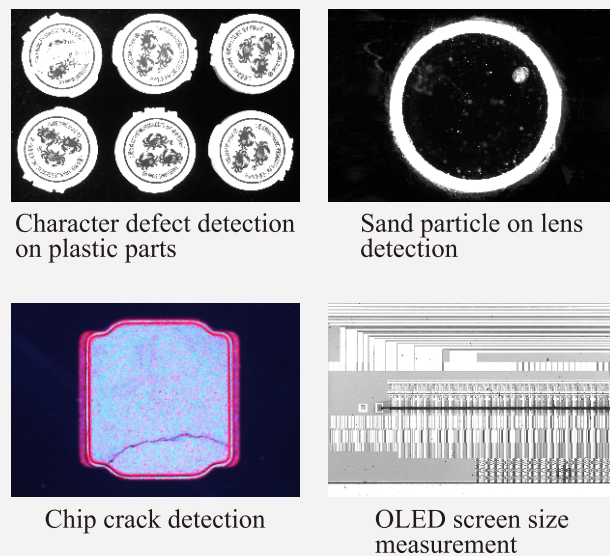
Selection Guide



Resolution Comparison



Application Cases



Model Table

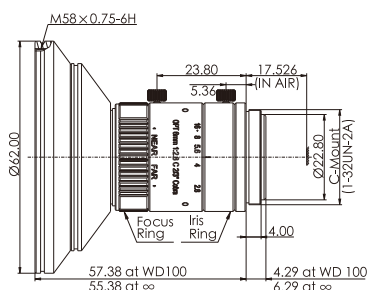
No.	Model	Focal length (mm)	Aperture	Image circle Ø (mm)	Resolution (μm)	TV Distortion	WD (mm)	Back Focal Length (mm)	Mag. at MOD	Chief Ray Angle	Filter thread (mm)	Weight (kg)
1	OPT-COB0628F	6	F2.8-F16	11 ($2/3''$)	2.2	$< 0.15\%$ at WD500	100-∞	12.77 at WD100 12.41 at ∞	0.049X at WD100	$< 7^\circ$	M58×0.75-6H	0.15
2	OPT-COB0628B	6	F2.8~F16	11 ($2/3''$)	2.2	$< 0.46\%$ at WD 250	100-∞	12.77 at WD 100 12.41 at ∞	0.048X at WD 100	$< 7^\circ$	M58×0.75-6H	0.15

Model Table

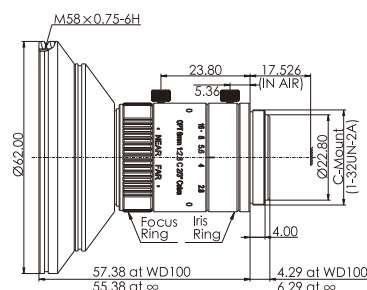
No.	Model	Focal length (mm)	Aperture	Image circle Ø (mm)	Resolution (μm)	TV Distortion	WD (mm)	Back Focal Length (mm)	Mag. at MOD	Chief Ray Angle	Filter thread (mm)	Weight (kg)
3	OPT-COB0828B	8	F2.8~F16	11 (2/3")	2.2	<0.56% at WD 300	30~∞	13.06	0.168X at WD 30	< 5°	M27×0.5-6H	0.08
4	OPT-COB1228B	12	F2.8~F16	11(2/3")	2.2	<0.1% at WD 300	80~∞	13.03	0.112X at WD 80	< 5°	M27×0.5-6H	0.09
5	OPT-COB1628B	16	F2.8~F16	11(2/3")	2.2	<0.02% at WD 300	100~∞	14.89	0.126X at WD 100	< 5°	M27×0.5-6H	0.07
6	OPT-COB2528B	25	F2.8~F16	11(2/3")	2.2	<0.15% at WD 300	150~∞	16.63 at WD 150 12.65 at ∞	0.159X at WD 150	< 5°	M27×0.5-6H	0.05
7	OPT-COB3528B	35	F2.8~F16	11(2/3")	2.2	<0.20% at WD 350	210~∞	18.39 at WD 210 12.87 at ∞	0.161X at WD 210	< 5°	M27×0.5-6H	0.06
8	OPT-COB5028B	50	F2.8~F22	11(2/3")	2.2	<0.07% at WD 500	400~∞	20.56 at WD 400 13.67 at ∞	0.136X at WD 400	< 5°	M27×0.5-6H	0.06
9	OPT-COB5028N	50	F2.8~F22	11(2/3")	2.2	<0.01% at WD 300	250~2000	18.11	0.222X at WD 250	< 5°	M27×0.5-6H	0.08
10	OPT-COB7528B	75	F2.8~F16	11(2/3")	2.2	<0.07% at WD 500	250~1000	13.06	0.363X at WD 250	< 5°	M37.5×0.5-6H	0.21

Dimensions (mm)

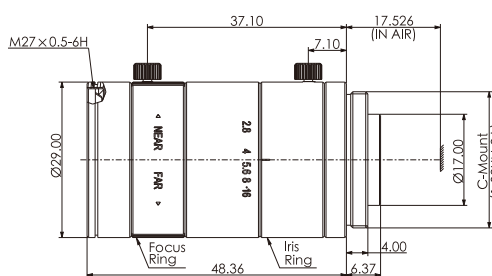
1.OPT-COB0628F



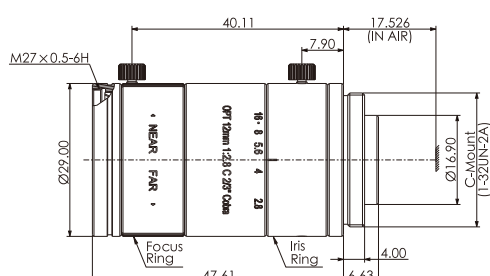
2.OPT-COB0628B



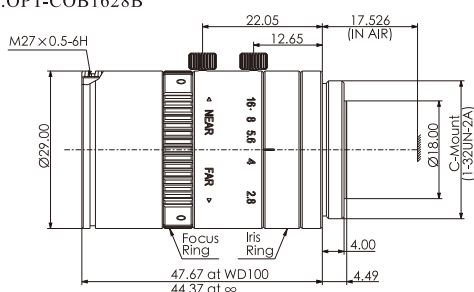
3.OPT-COB0828B



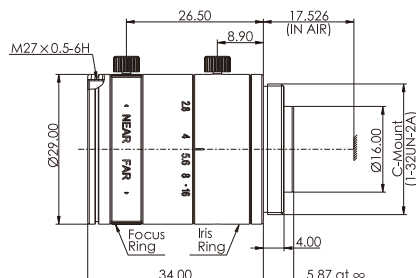
4.OPT-COB1228B



5.OPT-COB1628B

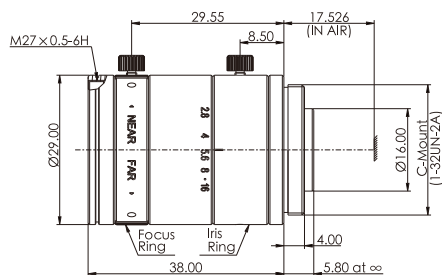


6.OPT-COB2528B

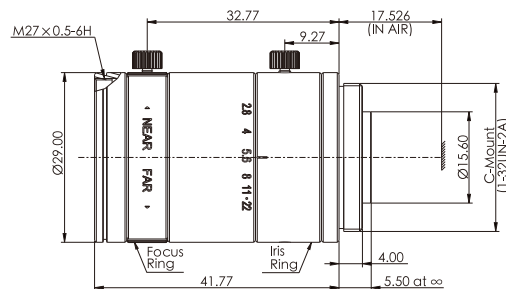


Dimensions (mm)

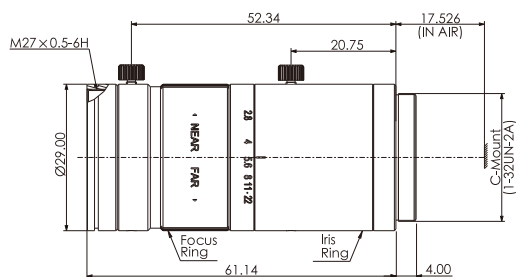
7.OPT-COB3528B



8.OPT-COB5028B



9.OPT-COB5028N



10.OPT-COB7528B

