

# Cobra Series Lens

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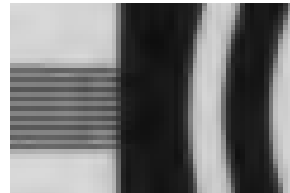
Add: Deutz-Kalker Str. 35  
50679 Köln, Germany



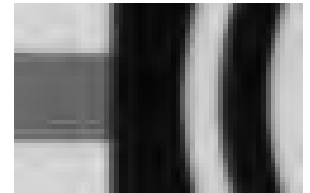
## Product Features

- **Compact Size**  
 Lens diameter 29mm, perfectly compatible with the camera.
- **High Resolution**  
 Resolution of the whole FOV can reach 230lp/mm, compatible to the camera with pixel size  $\geq 2.2\mu\text{m}$ , or sensor size  $< 1/1.8''$  (9mm).
- **Wide Spectral Range**  
 Coating wavelength range 400-1000nm, compatible to VIS and NIR.
- **Low Distortion**  
 TV distortion  $< 0.2\%$ .

## Resolution comparison

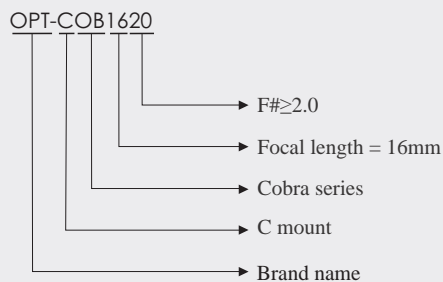


Picture taken via Cobra

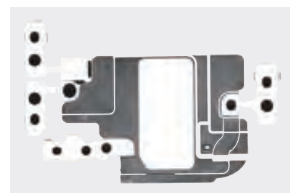


Picture taken via other lens

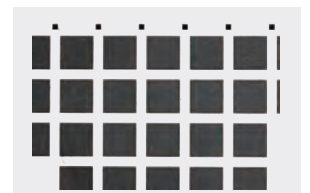
## Selection Guide



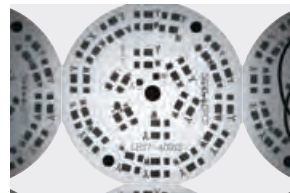
## Application Examples



Metal dimension inspection



Material existence inspection

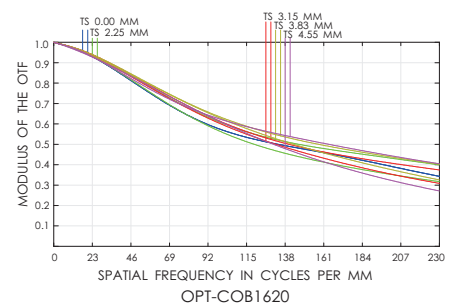
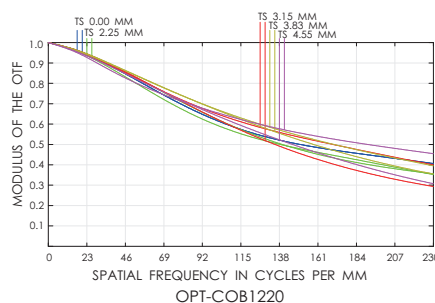
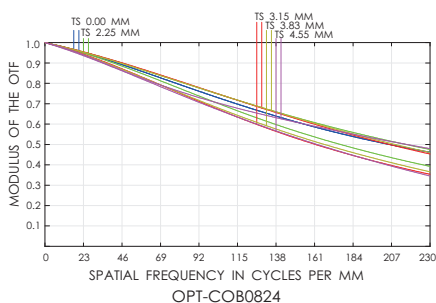


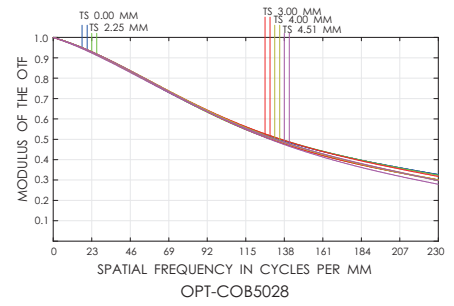
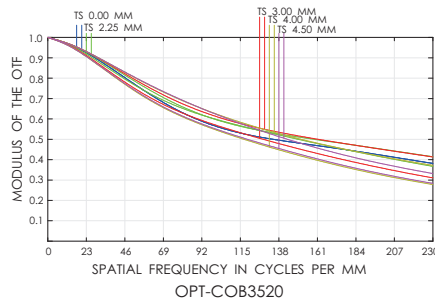
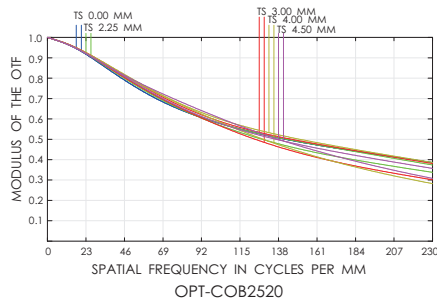
PCB localization



Bar code identification

## MTF Drawing



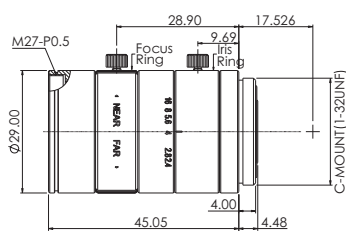


Model Table

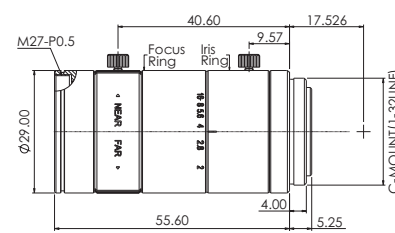
No.	Model	Focal length (mm)	Aperture range	Image circle (mm)	Distortion	Working distance (mm)	Back focal length (mm)	Filter	Weight (kg)	Mount	Sensor size	FOV angle (horizontal - vertical - across)			
1	OPT-COB0824 (will launch in Q2 2019)	8	F2.4-F16	9	<0.2%	100-∞	13.39	M27*P0.5	0.07	C	1/3"	33.31°	25.29°	41.01°	
											1/2.5"	39.50°	29.94°	48.23°	
											1/2"	43.49°	33.31°	53.00°	
											1/1.8"	48.19°	36.68°	58.20°	
2	OPT-COB1220 (will launch in Q2 2019)	12	F2.0-F16	9	<0.08%	100-∞	13.52	M27*P0.5	0.09	C	1/3"	22.56°	17.01°	28.00°	
											1/2.5"	26.92°	20.21°	33.23°	
											1/2"	29.79°	22.56°	36.78°	
											1/1.8"	33.21°	24.93°	40.73°	
3	OPT-COB1620	16	F2.0-F16	9	<0.08%	100-∞	13.3	M27*P0.5	0.08	C	1/3"	17.01°	12.80°	21.18°	
											1/2.5"	20.35°	15.23°	25.23°	
											1/2"	22.56°	17.01°	28.00°	
											1/1.8"	25.21°	18.82°	31.11°	
4	OPT-COB2520	25	F2.0-F16	9	<0.04%	100-∞	13.38	M27*P0.5	0.06	C	1/3"	10.94°	8.216°	13.65°	
											1/2.5"	13.11°	9.784°	16.30°	
											1/2"	14.55°	10.94°	18.13°	
											1/1.8"	16.29°	12.11°	20.20°	
5	OPT-COB3520	35	F2.0-F16	9	<0.04%	150-∞	13.39	M27*P0.5	0.07	C	1/3"	7.82°	5.87°	9.77°	
											1/2.5"	9.38°	6.99°	11.69°	
											1/2"	10.42°	7.82°	13.01°	
											1/1.8"	11.68°	8.66°	14.51°	
6	OPT-COB5028	50	F2.8-F32	9	<0.01%	200-∞	18.11	M27*P0.5	0.08	C	1/3"	5.48°	4.11°	6.85°	
											1/2.5"	6.57°	4.90°	8.19°	
											1/2"	7.30°	5.48°	9.12°	
											1/1.8"	8.18°	6.07°	10.18°	

Dimensional Drawing (mm)

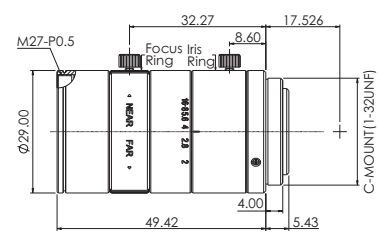
1.OPT-COB0824



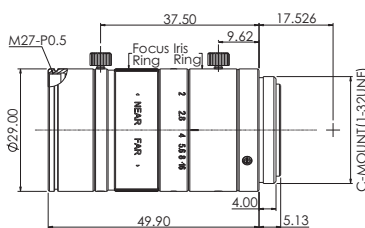
2.OPT-COB1220



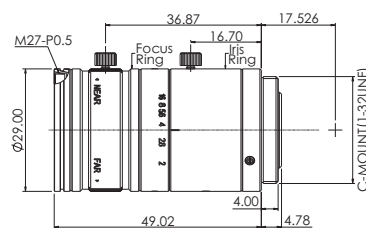
3.OPT-COB1620



4.OPT-COB2520



5.OPT-COB3520



6.OPT-COB5028

