

Dolphin 20M Series Fixed Focal Length Lenses NEW



Product Features

- High resolution**
 208 lp/mm resolution; suitable for cameras of $\geq 2.4\mu\text{m}$ pixel size and $\leq 1.1"$ ($\varnothing 17.6\text{mm}$) sensor format.
 - Wide spectrum range**
 Compatible with VIS and NIR (400 - 1000nm).
 - Low distortion**
 TV distortion $< 0.2\%$ ^[1]
 - High Relative Illumination**
 CRA Below 5° , this guarantees a high relative illumination across the entire image without vignetting.
- [1] The TV distortion of OPT-CDP1228 $< 0.85\%$ @WD300, OPT-CDP1628 $< 0.41\%$ @WD300.

Selection Guide

OPT-CDP5028

- Max F/#: 2.8
- Focal length: 50mm
- Dolphin series lenses
- C-Mount
- Brand name

Resolution Comparison

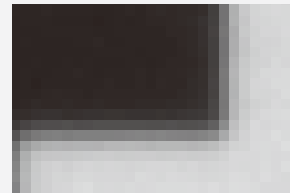


Image taken via CDP lens

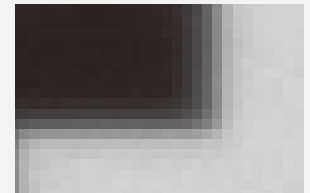
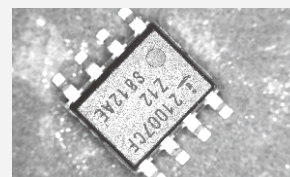


Image taken via other lens

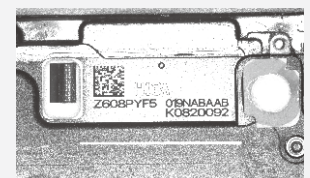
Application Examples



IC character detection



Connector PIN detection

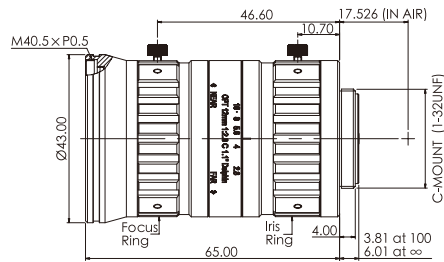

Shielding cover hole
positioning detection

Mobile phone shell
character recognition

Model Table

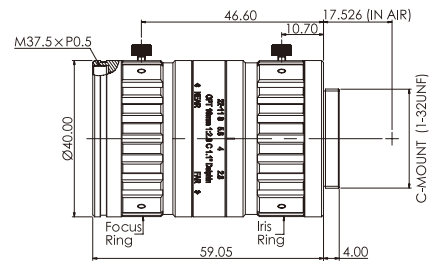
No.	Model	Focal length (mm)	Aperture	WD (mm)	Image circle $\varnothing$ (mm)	Resolution (μm)	TV Distortion at WD300	Back Focal Length (mm)		Mag. at MOD	Chief Ray Angle	Filter thread (mm)	Weight (kg)
1	OPT-CDP1228	12	F2.8-16	100- ∞	17.6	2.4	$< 0.85\%$	13.40 at WD100	11.79 at WD ∞	0.101X at WD100	$< 3.8^\circ$	M40.5*P0.5	0.21
2	OPT-CDP1628	16	F2.8-22	100- ∞	17.6	2.4	$< 0.41\%$	19.98 at WD100	17.58 at WD ∞	0.131X at WD100	$< 5.0^\circ$	M37.5*P0.5	0.17
3	OPT-CDP2528	25	F2.8-16	150- ∞	17.6	2.4	$< 0.16\%$	11.89		0.162X at WD150	$< 5.0^\circ$	M32.5*P0.5	0.14
4	OPT-CDP3528	35	F2.8-16	200- ∞	17.6	2.4	$< 0.15\%$	13.44		0.176X at WD200	$< 4.85^\circ$	M32.5*P0.5	0.14
5	OPT-CDP5028	50	F2.8-16	250- ∞	17.6	2.4	$< 0.13\%$	13.05		0.206X at WD250	$< 3.64^\circ$	M32.5*P0.5	0.17

Dimensions (mm)

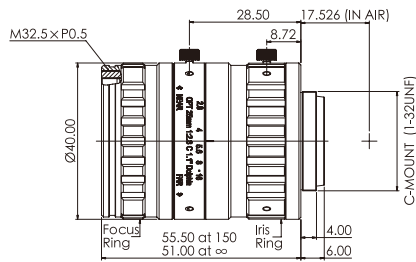
1.OPT-CDP1228



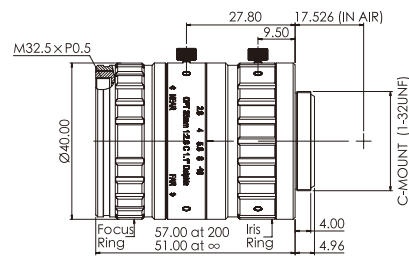
2.OPT-CDP1628



3.OPT-CDP2528



4.OPT-CDP3528



5.OPT-CDP5028

