

Dolphin 20MP Series Fixed Focal Length Lenses NEW



Product Features

- ▣ **High resolution**
 Compatible with cameras which pixel $\geq 2.4\mu\text{m}$ and max. 1.1"($\text{Ø}17.6\text{mm}$) sensor; resolution up to 208lp/mm in full FOV
- ▣ **Wide spectrum range**
 Compatible with VIS and NIR (400 - 1000nm).
- ▣ **Low distortion**
 The TV distortion of the whole series products is at a low level
- ▣ **High Relative Illumination**
 CRA below 5° , this guarantees a high relative illumination across the entire image without vignetting.

Resolution Comparison



Image taken by Dolphin

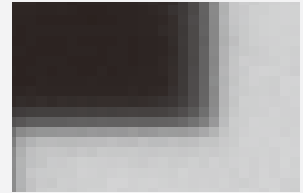
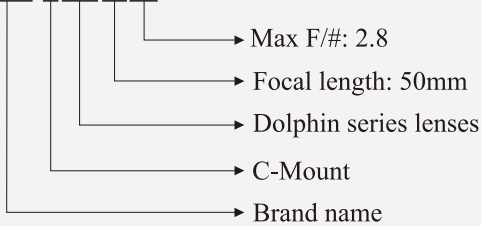


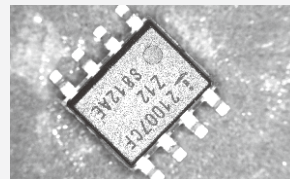
Image taken by other lens

Selection Guide

OPT-CDP5028



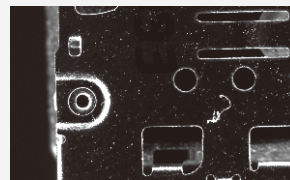
Application Cases



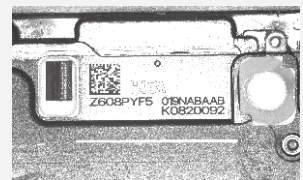
IC OCR



Connector PIN detection



Shielding cover hole positioning detection



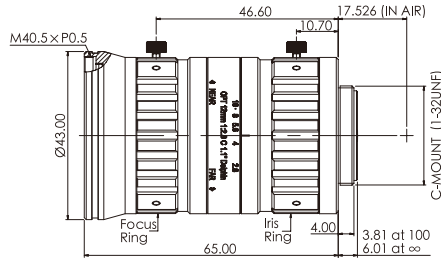
Mobile phone shell OCR

Model Table

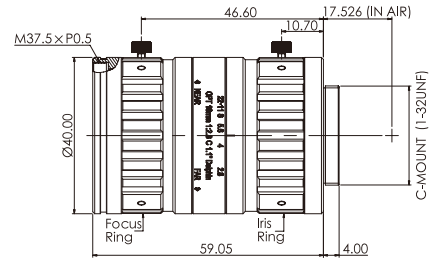
| No. | Model | Focal length (mm) | Aperture | WD (mm) | Image circle Ø (mm) | Resolution (μm) | TV Distortion at WD300 | Back Focal Length (mm) | | Mag. at MOD | Chief Ray Angle | Filter thread (mm) | Weight (kg) |
|-----|-------------|-------------------|----------|---------|---------------------|-----------------|------------------------|------------------------|------------|-----------------|-----------------|--------------------|-------------|
| 1 | OPT-CDP1228 | 12 | F2.8-16 | 100-∞ | 17.6 | 2.4 | < 0.85% | 13.40 at WD100 | 11.79 at ∞ | 0.101X at WD100 | < 3.8° | 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 ∞ | 0.131X at WD100 | < 5.0° | 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° | 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° | 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° | M32.5*P0.5 | 0.17 |

Dimensions (mm)

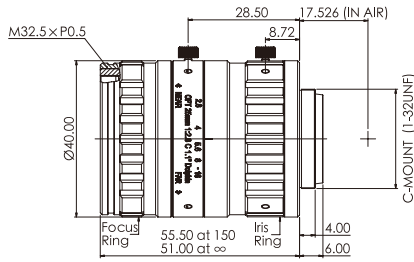
1. OPT-CDP1228



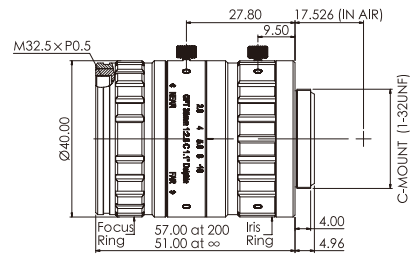
2. OPT-CDP1628



3. OPT-CDP2528



4. OPT-CDP3528



5. OPT-CDP5028

