HIKROBOT

# MVL-HF2528M-6MPE

## 1/1.8” 25mm 6MP FA LENS

FA series Lens are optimized for machine vision light sources and sensor, with high resolution, excellent image quality, high transmittance and good stability. Featured with fixed focal length, manual aperture and compact size, it is suitable for machine vision industry applications and ideal for industrial cameras.

## Key Features

- Higher image clarity and contrast ratio
- Ultra-low distortion and higher relative illumination rate
- Good optical performance at ultra-short working distance
- Compact design, convenient for device integration

## Order Model

MVL-HF2528M-6MPE

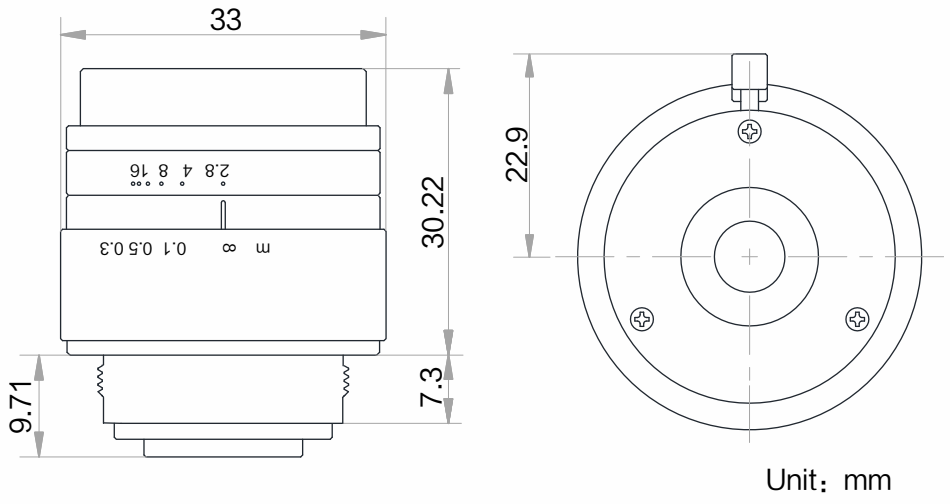
## Specification

| Parameter \ Model | | MVL-HF2528M-6MPE | | |
|---|---|---|---|---|
| | | Fixed focal length, Manual iris, 6MP, FA Lens | | |
| Focal Length | | 25mm | Mount | C-Mount |
| F-Number | | F2.8~F16 | Flange Back Length | 17.526mm |
| Image Size | | Φ9mm(1/1.8’’) | Filter Thread | M27×P0.5 |
| Distortion | | -0.07% | Minimum Operation Distance | 0.2m |
| Control | Iris | Manual | Dimension | Φ33×30.2mm |
| | Focus | Manual | | |
| Operating Temperature | | -10~50℃ | Weight | 48.1g |
| Angle of View | | 1/1.8” | D（8.96mm） | 19.2° |
| | | | H（7.37mm） | 15.8° |
| | | | V（4.92mm） | 10.6° |

## Field of View

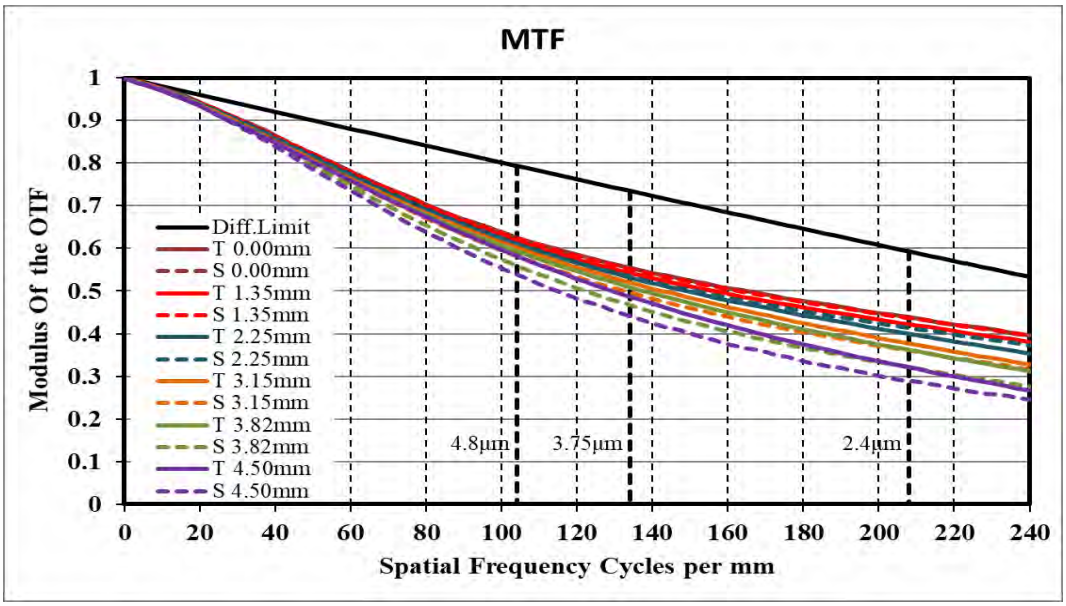
| Extension (mm) | Working Distance (mm) | | Magnification | Field of View (mm) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 1/1.8'' (7.38mm×4.92mm) | | 1/2'' (6.22mm×4.67mm) | |
| | | | | H | V | H | V |
| 0 | 200 | | -0.118 | 62.95 | 41.92 | 53.02 | 39.78 |
| | 250 | | -0.095 | 77.91 | 51.88 | 65.63 | 49.24 |
| | 300 | | -0.080 | 92.63 | 61.70 | 78.04 | 58.56 |
| | 350 | | -0.069 | 107.20 | 71.42 | 90.32 | 67.78 |
| | 400 | | -0.061 | 121.65 | 81.06 | 102.50 | 76.94 |
| | 450 | | -0.054 | 136.02 | 90.64 | 114.62 | 86.04 |
| | 500 | | -0.049 | 150.32 | 100.19 | 126.68 | 95.10 |
| | 550 | | -0.045 | 164.57 | 109.70 | 138.69 | 104.12 |
| | 600 | | -0.041 | 178.78 | 119.18 | 150.67 | 113.13 |
| | 650 | | -0.038 | 192.95 | 128.64 | 162.63 | 122.11 |
| | 700 | | -0.036 | 207.10 | 138.08 | 174.56 | 131.07 |
| | 800 | | -0.031 | 235.32 | 156.92 | 198.36 | 148.95 |
| | 900 | | -0.028 | 263.47 | 175.71 | 222.10 | 166.79 |
| | 1000 | | -0.025 | 291.56 | 194.47 | 245.80 | 184.60 |
| 1 | near | 147 | -0.163 | 45.50 | 30.29 | 38.32 | 28.74 |
| | far | 700 | -0.038 | 193.96 | 129.38 | 163.52 | 122.81 |
| 2 | near | 118 | -0.208 | 35.65 | 23.72 | 30.01 | 22.51 |
| | far | 352 | -0.076 | 97.25 | 64.81 | 81.95 | 61.51 |
| 5 | near | 75 | -0.343 | 21.64 | 14.39 | 18.21 | 13.66 |
| | far | 143 | -0.190 | 39.12 | 26.01 | 32.92 | 24.68 |
| 10 | near | 50 | -0.567 | 13.09 | 8.70 | 11.02 | 8.26 |
| | far | 73 | -0.379 | 19.68 | 13.05 | 16.54 | 12.38 |

## Dimension

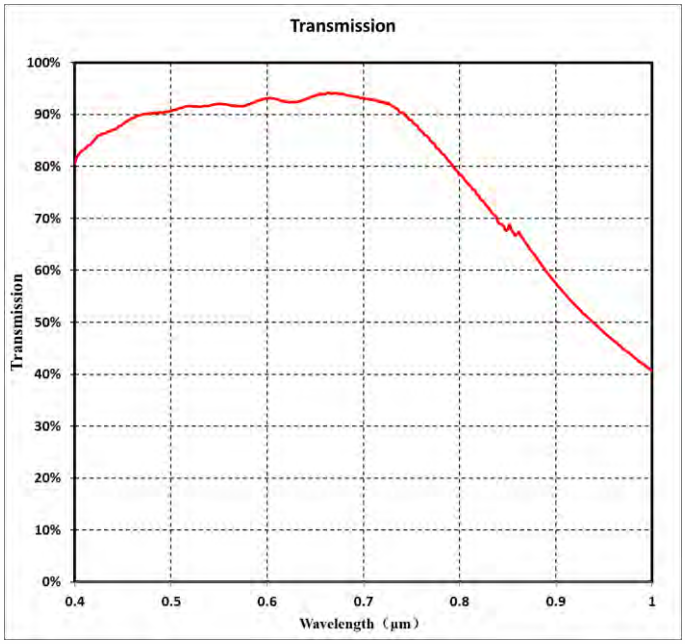



Unit：mm

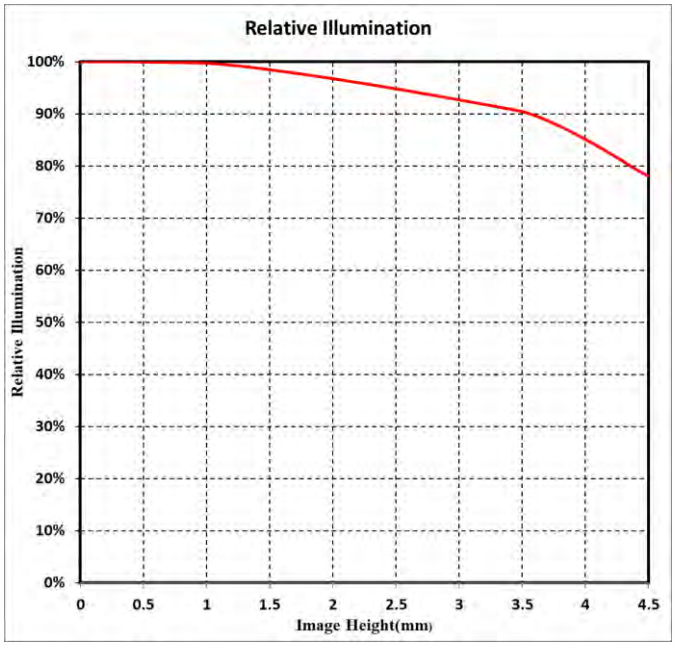
## MTF




## Transmission




## Relative Illumination




Note：The above curves are the simulate results based on F2.8, β=-0.0492, WD=500 mm.


**MaxxVision®**
Sigmaringer Str. 121
70567 Stuttgart
Tel.: 0711 997 996 3
www.maxxvision.com

HIKROBOT
Hangzhou Hikrobot Technology Co.,Ltd.
No.399 Danfeng Road, Binjiang District,Hangzhou 310051 , China.
en.hikrobotics.com