



Walan Optics

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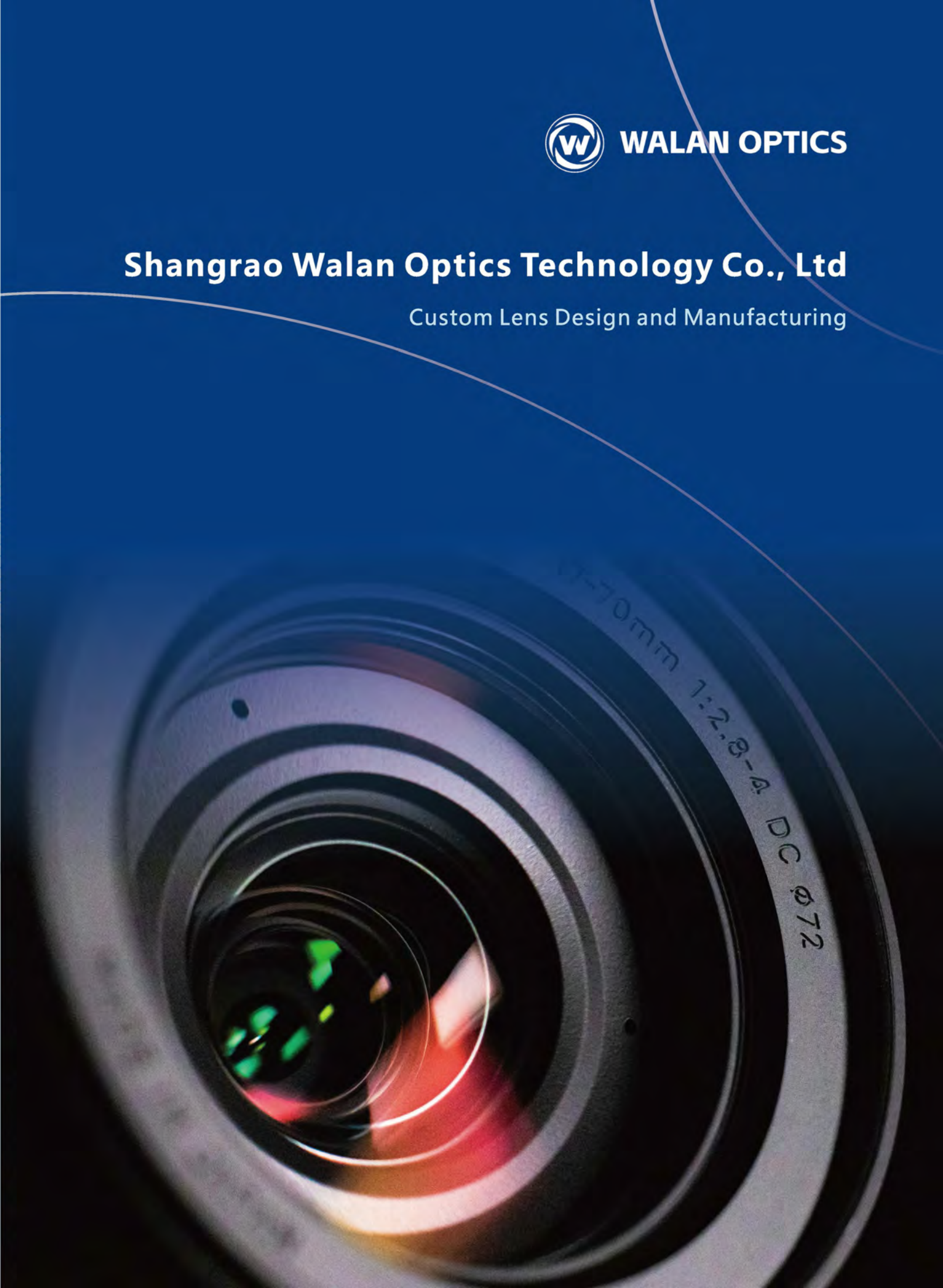
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WALAN OPTICS

## Shangrao Walan Optics Technology Co., Ltd

Custom Lens Design and Manufacturing





## CUSTOM LENS DESIGN AND MANUFACTURING



## COMPANY PROFILE

Shangrao Walan Optics Technology Co., Ltd. specializes in R&D, design and manufacturing of precision optical components and lens systems. Our product category includes Mirrorless and DSLR camera lens, medical endoscope lens, drone aerial photography lens, long focal continuous zoom lens, infrared thermal imaging lens, and night vision lens.

By engaging in optical design, precision optical processing and coating technology for years, Walan Optics is committed to providing high-performance, customized optical solutions for global clients.

We provide comprehensive ODM services according to clients' application, from optical design and sampling to mass production, ensuring innovative ideas become manufacturable, high-performance optical products.

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## 01



## Specification

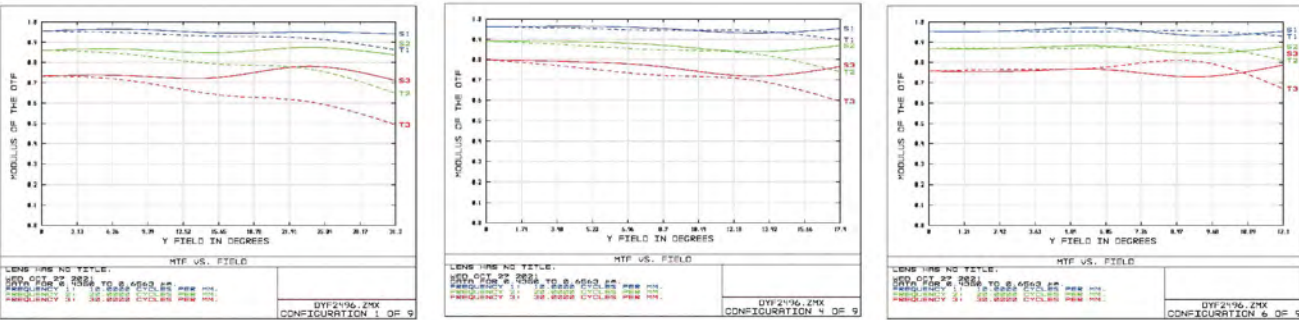
# 24-96mm S35 Frame Cine Zoom Lens



24-96mm S35 Frame Cine Zoom Lens

## Specification

|                                     |       |                                  |              |                  |               |
|-------------------------------------|-------|----------------------------------|--------------|------------------|---------------|
| Item                                |       | 24-96mm S35 Frame Cine Zoom Lens |              |                  |               |
| Model                               |       | DYF2496                          |              |                  |               |
| Focal Length                        |       | 24--96mm(S35 Frame )             |              |                  |               |
| Focal Length with 1.5X magnify lens |       | 35-140mm ( Full-Frame )          |              |                  |               |
| Image Format                        |       | S35                              |              |                  |               |
| Mount                               |       | EF, PL                           |              |                  |               |
| F No.                               |       | T2.9-T22                         |              |                  |               |
| Image Diameter                      |       | Φ31.5                            |              |                  |               |
| Focusing range                      |       | 1m~∞                             |              |                  |               |
| Diaphragm Leaves                    |       | 13 blades                        |              |                  |               |
| Field Angle                         | (HXV) | Φ31.5mm                          | D<br>66°~18° | H<br>54.5°~14.3° | V<br>43~11.1° |
| TTL                                 |       | 261mm                            |              |                  |               |
| Lens construction                   |       | 21 pieces in 16 groups           |              |                  |               |
| Distortion                          |       | <2%                              |              |                  |               |
| Working Wavelength                  |       | 400-700nm                        |              |                  |               |
| Relative Illumination               |       | >0.45                            |              |                  |               |
| B.F.L.                              |       | 40.5mm                           |              |                  |               |
| Operation                           | Focus | Manual                           |              |                  |               |
|                                     | Zoom  | Manual                           |              |                  |               |
|                                     | Iris  | Manual                           |              |                  |               |
| Dimension                           |       | Φ94*L225mm                       |              |                  |               |
| Heavy volume                        |       | 2.25kg                           |              |                  |               |



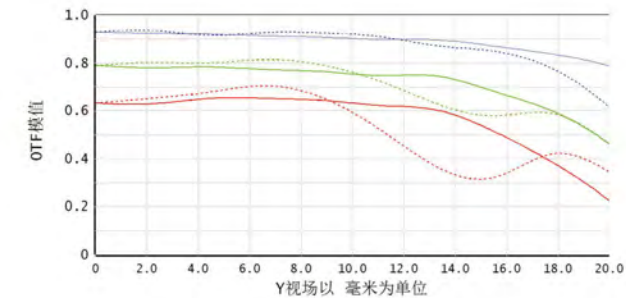
35mm T2.1  
S35 Frame Cine lens



35mm T2.1 S35 Frame Cine lens

Specification

| Item                    |       | 35mm T2.1 S35 Frame Cine lens |         |                    |
|-------------------------|-------|-------------------------------|---------|--------------------|
| Model                   |       | DY35T21                       |         |                    |
| Focal Length            |       | 35mm                          |         |                    |
| Equivalent Focal Length |       | 52.5mm                        |         |                    |
| Image Format            |       | S35                           |         |                    |
| Mount                   |       | PL/EF/RF/E/L/Z                |         |                    |
| F No.                   |       | T2.1-22                       |         |                    |
| Image Diameter          |       | Φ31                           |         |                    |
| Resolution              |       | 6K                            |         |                    |
| Focusing range          |       | 0.48m~∞                       |         |                    |
| Diaphragm Leaves        |       | 11 blades                     |         |                    |
| Field Angle             |       | (HXV) Φ43.2mm                 | D 48.2° | H 40.8°<br>V 27.8° |
| TTL                     |       | 120mm                         |         |                    |
| Lens construction       |       | 12 pieces in 10 groups        |         |                    |
| Distortion              |       | <2.8%                         |         |                    |
| Working Wavelength      |       | 400-700nm                     |         |                    |
| Relative Illumination   |       | > 50%                         |         |                    |
| B.F.L.                  |       | 40.3mm                        |         |                    |
| Operation               | Focus | Manual                        |         |                    |
|                         | Zoom  | /                             |         |                    |
|                         | Iris  | Manual                        |         |                    |
| Dimension               |       | Φ85.5*L98.5 mm                |         |                    |
| Heavy volume            |       | 940g                          |         |                    |



Legend: T1, S1, T2, S2, T3, S3  
MTF and field angle  
Lens has no title., 2023/12/4  
数据: 0.4350 到 0.6563 μm.  
频率1: 10.00 cyc/mm  
频率2: 20.00 cyc/mm  
频率3: 30.00 cyc/mm  
图例对应于子午(T)/弧矢(S) 频率  
Zemax  
Zemax OpticStudio 19.4 SP2  
QF60W-1.28x  
10的倍率3

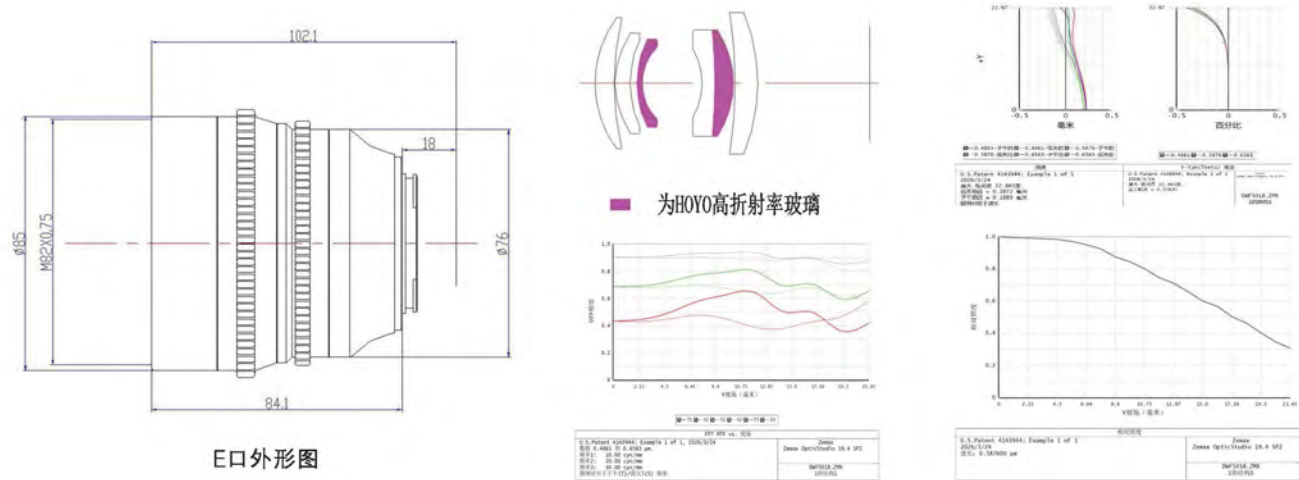
50mm T2.0  
Full-Frame Cine Lens



50mm T2.0 Full-Frame Cine Lens

Specification

|                         |              |                                |          |            |            |
|-------------------------|--------------|--------------------------------|----------|------------|------------|
| Item                    |              | 50mm T2.0 Full-Frame Cine Lens |          |            |            |
| Model                   |              | DYF5020                        |          |            |            |
| Focal Length            |              | 50mm                           |          |            |            |
| Equivalent Focal Length |              | 50mm                           |          |            |            |
| Image Format            |              | Full Frame                     |          |            |            |
| Mount                   |              | NEX-E, M4/3, FX, Z, EOSM, RF   |          |            |            |
| F No.                   |              | T/2.0-16                       |          |            |            |
| Filter mount            |              | Φ82*0.75                       |          |            |            |
| Focusing range          |              | 0.48m~∞                        |          |            |            |
| Diaphragm Leaves        |              | 12 blades                      |          |            |            |
| Field Angle             | (HXV)<br>3:2 | Full Frame                     | D<br>46° | H<br>39.2° | V<br>26.8° |
| TTL                     |              | 66.9mm                         |          |            |            |
| Lens construction       |              | 6 pieces in 5 groups           |          |            |            |
| Distortion              |              | <0.5%                          |          |            |            |
| Working Wavelength      |              | 400-700nm                      |          |            |            |
| Relative Illumination   |              | 0.6                            |          |            |            |
| B.F.L.                  |              | 27.3mm                         |          |            |            |
| Operation               | Focus        | Manual                         |          |            |            |
|                         | Zoom         | /                              |          |            |            |
|                         | Iris         | Manual                         |          |            |            |
| Dimension               |              | Φ89.6*L102 mm                  |          |            |            |
| Heavy volume            |              | 793g                           |          |            |            |



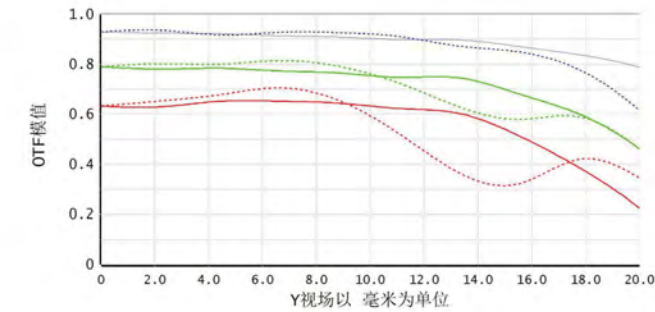
65mm T2.9  
Full-Frame Cine Lens



65mm T2.9 Full-Frame Cine Lens

Specification

| Item                    |       | 65mm T2.9 Full-Frame Cine Lens |            |            |            |
|-------------------------|-------|--------------------------------|------------|------------|------------|
| Model                   |       | DYF6529                        |            |            |            |
| Focal Length            |       | 60mm                           |            |            |            |
| Equivalent Focal Length |       | 60mm                           |            |            |            |
| Image Format            |       | Full Frame                     |            |            |            |
| Mount                   |       | NEX-E, Z, RF, L                |            |            |            |
| F No.                   |       | T/2.9~22                       |            |            |            |
| Filter mount            |       | Φ43.2                          |            |            |            |
| Focusing range          |       | 0.17m~∞                        |            |            |            |
| Diaphragm Leaves        |       | 9 blades                       |            |            |            |
| Field Angle             | (HXV) | Φ43.2mm                        | D<br>38.4° | H<br>32.5° | V<br>22.2° |
| TTL                     |       | 120mm                          |            |            |            |
| Lens construction       |       | 14 pieces in 12 groups         |            |            |            |
| Distortion              |       | <2.8%                          |            |            |            |
| Working Wavelength      |       | 400~700nm                      |            |            |            |
| Relative Illumination   |       | >0.35                          |            |            |            |
| B.F.L.                  |       | 15.2mm                         |            |            |            |
| Operation               | Focus | Manual                         |            |            |            |
|                         | Zoom  | /                              |            |            |            |
|                         | Iris  | Manual                         |            |            |            |
| Dimension               |       | Φ90*L117 mm                    |            |            |            |
| Heavy volume            |       | 858g                           |            |            |            |



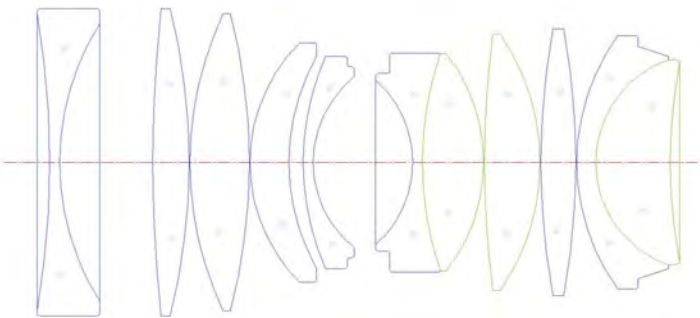
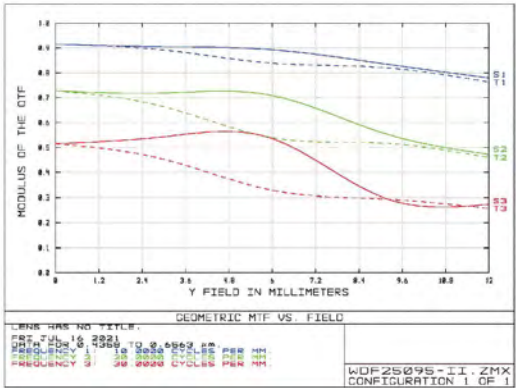
|                                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Legend: T1 S1 T2 S2 T3 S3                                                                                                                     |  |
| MTF and Field of View                                                                                                                         |  |
| Lens has no title., 2023/12/4<br>数据 0.4350 到 0.6563 μm.<br>频率1: 10.00 cyc/mm<br>频率2: 20.00 cyc/mm<br>频率3: 30.00 cyc/mm<br>图例对应于子午(T)/弧矢(S) 频率 |  |
| Zemax<br>Zemax OpticStudio 19.4 SP2<br>QF60W-1.zmx<br>1的结构3                                                                                   |  |

# 25mm F0.95 APS-C Large Aperture Lens

25mm F0.95 APS-C Large Aperture Lens

## Specification

|                         |       |         |                                      |          |          |
|-------------------------|-------|---------|--------------------------------------|----------|----------|
| Item                    |       |         | 25mm F0.95 APS-C Large Aperture Lens |          |          |
| Model                   |       |         | 25095                                |          |          |
| Focal Length            |       |         | 25mm                                 |          |          |
| Equivalent Focal Length |       |         | 37.5mm                               |          |          |
| Image Format            |       |         | APS-C                                |          |          |
| Mount                   |       |         | NEX-E, M4/3, FX, Z, EOSM             |          |          |
| F No.                   |       |         | F/0.95~16                            |          |          |
| Image Diameter          |       |         | Φ28.4                                |          |          |
| Focusing range          |       |         | 0.25m~∞                              |          |          |
| Diaphragm Leaves        |       |         | 13 blades                            |          |          |
| Field Angle             | (HXV) | Φ28.4mm | D<br>58.5°                           | H<br>42° | V<br>36° |
| TTL                     |       |         | 107.4mm                              |          |          |
| Lens construction       |       |         | 11 pieces in 9 groups                |          |          |
| Distortion              |       |         | <1.9%                                |          |          |
| Working Wavelength      |       |         | 400-700nm                            |          |          |
| Relative Illumination   |       |         | >0.36                                |          |          |
| B.F.L.                  |       |         | 16.5mm                               |          |          |
| Operation               | Focus |         | Manual                               |          |          |
|                         | Zoom  |         | /                                    |          |          |
|                         | Iris  |         | Manual                               |          |          |
| Dimension               |       |         | Φ60 *105L mm                         |          |          |
| Heavy volume            |       |         | 631g                                 |          |          |



HOYA Extra-low dispersion glass

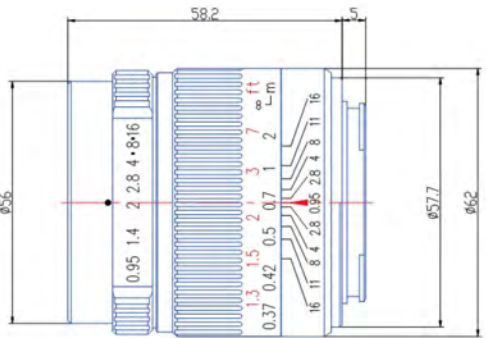
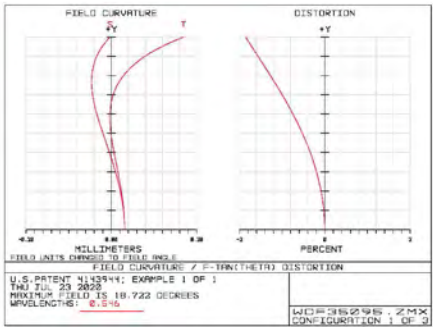
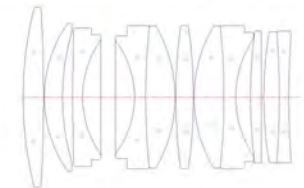
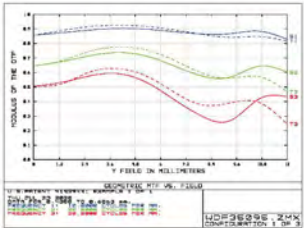
# 35mm F0.95 APS-C Large Aperture Lens



35mm F0.95 APS-C Large Aperture Lens

## Specification

|                         |       |                                      |    |      |      |  |
|-------------------------|-------|--------------------------------------|----|------|------|--|
| Item                    |       | 35mm F0.95 APS-C Large Aperture Lens |    |      |      |  |
| Model                   |       | 35095                                |    |      |      |  |
| Focal Length            |       | 35mm                                 |    |      |      |  |
| Equivalent Focal Length |       | 52.5mm                               |    |      |      |  |
| Image Format            |       | APS-C Frame                          |    |      |      |  |
| Mount                   |       | NEX-E, M43, FX, Nikon1, EOSM         |    |      |      |  |
| F No.                   |       | F/0.95~16                            |    |      |      |  |
| Filter mount            |       | 52mm                                 |    |      |      |  |
| Focusing range          |       | 0.37m~∞                              |    |      |      |  |
| Diaphragm Leaves        |       | 12 blades                            |    |      |      |  |
| Field Angle             | (HXV) | APS-C Frame                          | D  | H    | V    |  |
|                         |       |                                      | 44 | 37.5 | 25.3 |  |
| TTL                     |       | 72.7mm                               |    |      |      |  |
| Lens construction       |       | 11 pieces in 8 groups                |    |      |      |  |
| Distortion              |       | <1.75%                               |    |      |      |  |
| Working Wavelength      |       | 400~700nm                            |    |      |      |  |
| Relative Illumination   |       |                                      |    |      |      |  |
| B.F.L.                  |       | 15.5mm                               |    |      |      |  |
| Operation               | Focus | Manual                               |    |      |      |  |
|                         | Zoom  | /                                    |    |      |      |  |
|                         | Iris  | Manual                               |    |      |      |  |
| Dimension               |       | Φ60*L70mm                            |    |      |      |  |
| Heavy volume            |       | 402g                                 |    |      |      |  |



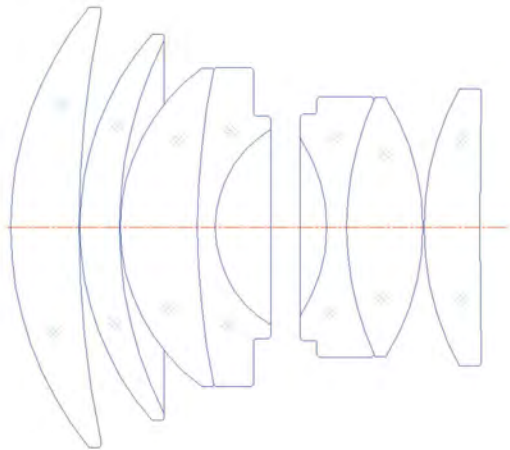
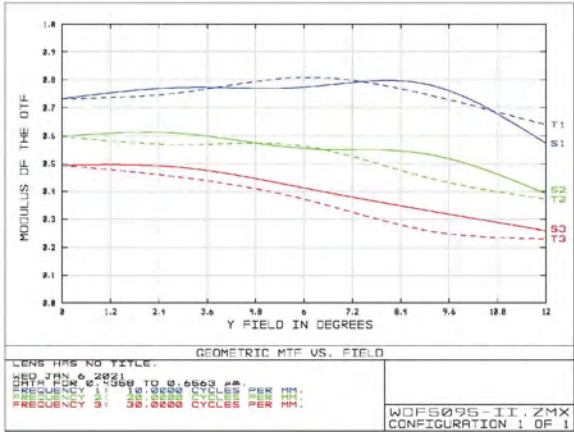
# 50mm F0.95 APS-C Large Aperture Lens



50mm F0.95 APS-C Large Aperture Lens

## Specification

| Item                    |       | 50mm F0.95 APS-C Large Aperture Lens |         |     |       |     |
|-------------------------|-------|--------------------------------------|---------|-----|-------|-----|
| Model                   |       | 50095                                |         |     |       |     |
| Focal Length            |       | 50mm                                 |         |     |       |     |
| Equivalent Focal Length |       | 75mm                                 |         |     |       |     |
| Image Format            |       | APS-C                                |         |     |       |     |
| Mount                   |       | NEX-E, M4/3, FX, Z, EOSM             |         |     |       |     |
| F No.                   |       | F/0.95~16                            |         |     |       |     |
| Image Diameter          |       | Φ28.4                                |         |     |       |     |
| Focusing range          |       | 0.6m~∞                               |         |     |       |     |
| Diaphragm Leaves        |       | 13 blades                            |         |     |       |     |
| Field Angle             |       | (HXV)                                | Φ28.4mm | D   | H     | V   |
|                         |       |                                      |         | 32° | 26.7° | 18° |
| TTL                     |       | 71.3mm                               |         |     |       |     |
| Lens construction       |       | 7 pieces in 5 groups                 |         |     |       |     |
| Distortion              |       | 2%                                   |         |     |       |     |
| Working Wavelength      |       | 400~700nm                            |         |     |       |     |
| Relative Illumination   |       | >0.4                                 |         |     |       |     |
| B.F.L.                  |       | 15.3mm                               |         |     |       |     |
| Operation               | Focus | Manual                               |         |     |       |     |
|                         | Zoom  | /                                    |         |     |       |     |
|                         | Iris  | Manual                               |         |     |       |     |
| Dimension               |       | Φ62*70L mm                           |         |     |       |     |
| Heavy volume            |       | 472g                                 |         |     |       |     |



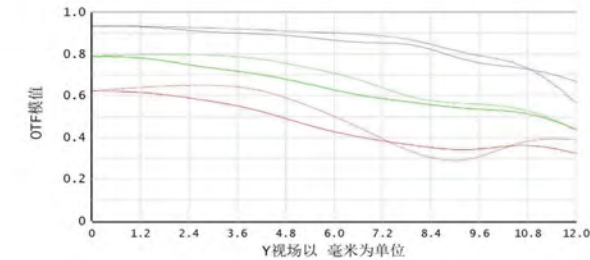
24mm F1.4  
APS-C Fixed Focus Lens



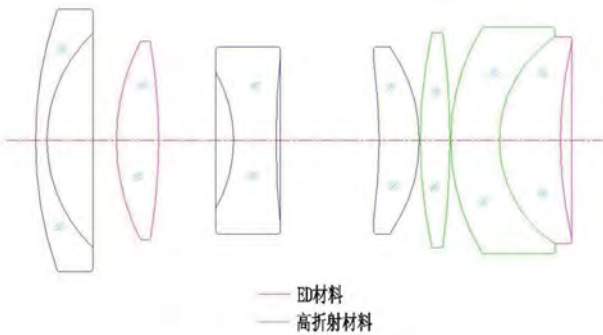
24mm F1.4 APS-C Fixed Focus Lens

Specification

| Item                    |       | 24mm F1.4 APS-C Fixed Focus Lens |          |                          |
|-------------------------|-------|----------------------------------|----------|--------------------------|
| Model                   |       | 2414                             |          |                          |
| Focal Length            |       | 24mm                             |          |                          |
| Equivalent Focal Length |       | 35mm                             |          |                          |
| Image Format            |       | APS-C                            |          |                          |
| Mount                   |       | NEX-E, M4/3, FX                  |          |                          |
| F No.                   |       | F/1.4~22                         |          |                          |
| Image Diameter          |       | Φ28.5                            |          |                          |
| Focusing range          |       | 0.3m~∞                           |          |                          |
| Diaphragm Leaves        |       | 7 blades                         |          |                          |
| Field Angle             | (HXV) | APS-C                            | D<br>61° | H<br>53.5°<br>V<br>37.4° |
| TTL                     |       | 82.8mm                           |          |                          |
| Lens construction       |       | 7 pieces in 6 groups             |          |                          |
| Distortion              |       | ≤1.6%                            |          |                          |
| Working Wavelength      |       | 400~700nm                        |          |                          |
| Relative Illumination   |       | >0.5                             |          |                          |
| B.F.L.                  |       | 16.6mm                           |          |                          |
| Operation               | Focus | Manual                           |          |                          |
|                         | Zoom  | /                                |          |                          |
|                         | Iris  | Manual                           |          |                          |
| Dimension               |       | Φ61*L65 mm                       |          |                          |
| Heavy volume            |       | 344g                             |          |                          |



|                                                 |  |
|-------------------------------------------------|--|
| -T1-S1-T2-S2-T3-S3                              |  |
| MTF 和 视场                                        |  |
| U.S. Patent 4143944; Example 1 of 1, 2022/12/14 |  |
| 数据: 0.4358 到 0.6563 μm.                         |  |
| 频率1: 10.00 cyc/mm                               |  |
| 频率2: 20.00 cyc/mm                               |  |
| 频率3: 30.00 cyc/mm                               |  |
| 图例对应于子午(T)/弧矢(S) 频率                             |  |
| Zemax                                           |  |
| Zemax OpticStudio 19.4 SP2                      |  |
| MDF2414.zmx                                     |  |
| 1的结构1                                           |  |

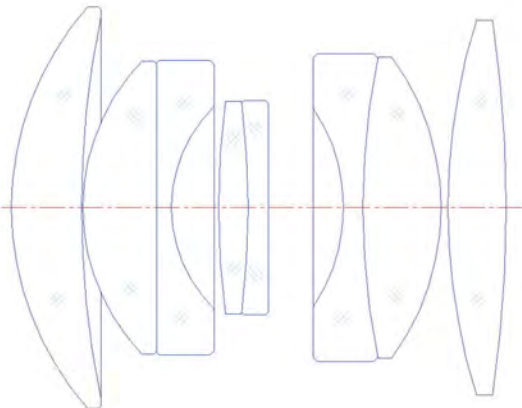
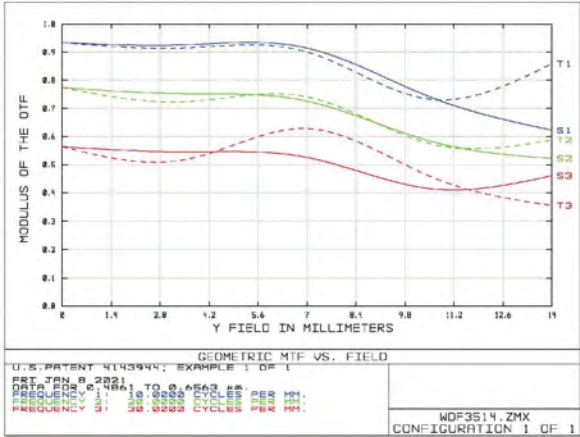


35mm F1.2  
APS-C Fixed Focus Lens



Specification

|                         |       |                                  |          |          |          |
|-------------------------|-------|----------------------------------|----------|----------|----------|
| Item                    |       | 35mm F1.2 APS-C Fixed Focus Lens |          |          |          |
| Model                   |       | 3512                             |          |          |          |
| Focal Length            |       | 35mm                             |          |          |          |
| Equivalent Focal Length |       | 52.5mm                           |          |          |          |
| Image Format            |       | APS-C                            |          |          |          |
| Mount                   |       | NEX-E, M4/3, FX, EOSM            |          |          |          |
| F No.                   |       | F1.2~16                          |          |          |          |
| Image Diameter          |       | Φ28.4                            |          |          |          |
| Focusing range          |       | 0.4m~∞                           |          |          |          |
| Diaphragm Leaves        |       | 9 blades                         |          |          |          |
| Field Angle             | (HXV) | Φ28.4mm                          | D<br>43° | H<br>37° | V<br>25° |
| TTL                     |       | 52.7mm                           |          |          |          |
| Lens construction       |       | 8 pieces in 5 groups             |          |          |          |
| Distortion              |       | 1.2%                             |          |          |          |
| Working Wavelength      |       | 400~700nm                        |          |          |          |
| Relative Illumination   |       | >0.4                             |          |          |          |
| B.F.L.                  |       | 15.6mm                           |          |          |          |
| Operation               | Focus | Manual                           |          |          |          |
|                         | Zoom  | /                                |          |          |          |
|                         | Iris  | Manual                           |          |          |          |
| Dimension               |       | Φ60*L58mm                        |          |          |          |
| Heavy volume            |       | 262g                             |          |          |          |



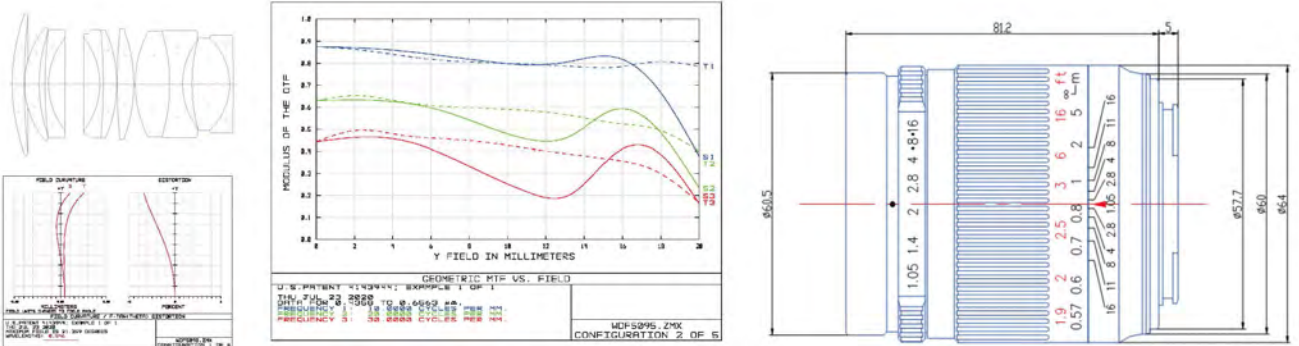
# 50mm F1.05 Full Frame Fixed Focus Lens



50mm F1.05 Full Frame Fixed Focus Lens

## Specification

|                         |       |                                        |          |          |          |
|-------------------------|-------|----------------------------------------|----------|----------|----------|
| Item                    |       | 50mm F1.05 Full Frame Fixed Focus Lens |          |          |          |
| Model                   |       | F50105                                 |          |          |          |
| Focal Length            |       | 50mm                                   |          |          |          |
| Equivalent Focal Length |       | 50mm                                   |          |          |          |
| Image Format            |       | Full Frame                             |          |          |          |
| Mount                   |       | NEX-E, Z, RF                           |          |          |          |
| F No.                   |       | F/1.05~22                              |          |          |          |
| Filter mount            |       | 58mm                                   |          |          |          |
| Focusing range          |       | 0.57m~ ∞                               |          |          |          |
| Diaphragm Leaves        |       | 12 blades                              |          |          |          |
| Field Angle             | (HXV) | Full Frame                             | D<br>43° | H<br>36° | V<br>24° |
| TTL                     |       | 98mm                                   |          |          |          |
| Lens construction       |       | 10 pieces in 7 groups                  |          |          |          |
| Distortion              |       | <1.65%                                 |          |          |          |
| Working Wavelength      |       | 400~700nm                              |          |          |          |
| Relative Illumination   |       |                                        |          |          |          |
| B.F.L.                  |       | 16.1mm                                 |          |          |          |
| Operation               | Focus | Manual                                 |          |          |          |
|                         | Zoom  | /                                      |          |          |          |
|                         | Iris  | Manual                                 |          |          |          |
| Dimension               |       | Φ60.5*L86.2mm                          |          |          |          |
| Heavy volume            |       | 606g                                   |          |          |          |



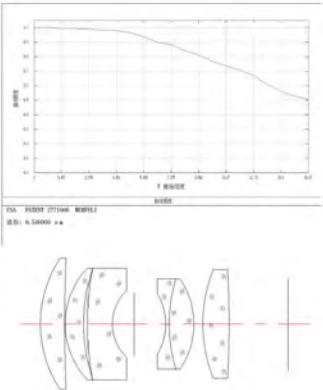
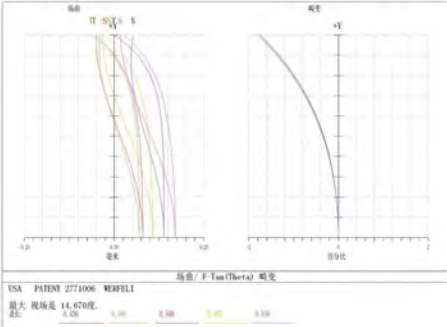
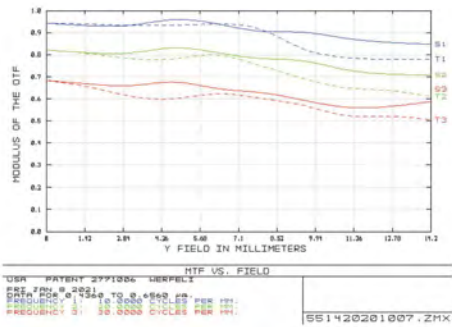
55mm F1.4  
APS-C Fixed Focus Lens



55mm F1.4 APS-C Fixed Focus Lens

Specification

|                         |       |                                  |            |                          |
|-------------------------|-------|----------------------------------|------------|--------------------------|
| Item                    |       | 55mm F1.4 APS-C Fixed Focus Lens |            |                          |
| Model                   |       | 5514                             |            |                          |
| Focal Length            |       | 55mm                             |            |                          |
| Equivalent Focal Length |       | 82.5mm                           |            |                          |
| Image Format            |       | APS-C                            |            |                          |
| Mount                   |       | NEX-E, M4/3, FX, Z, EOSM         |            |                          |
| F No.                   |       | F/1.4~16                         |            |                          |
| Image Diameter          |       | Φ28.4                            |            |                          |
| Focusing range          |       | 0.42m~∞                          |            |                          |
| Diaphragm Leaves        |       | 9 blades                         |            |                          |
| Field Angle             | (HXV) | Φ28.4mm                          | D<br>29.5° | H<br>24.9°<br>V<br>16.6° |
| TTL                     |       | 75.1mm                           |            |                          |
| Lens construction       |       | 6 pieces in 5 groups             |            |                          |
| Distortion              |       | 1.8%                             |            |                          |
| Working Wavelength      |       | 400-700nm                        |            |                          |
| Relative Illumination   |       | >0.5                             |            |                          |
| B.F.L.                  |       | 17.9mm                           |            |                          |
| Operation               | Focus | Manual                           |            |                          |
|                         | Zoom  | /                                |            |                          |
|                         | Iris  | Manual                           |            |                          |
| Dimension               |       | Φ67*70Lmm                        |            |                          |
| Heavy volume            |       | 400g                             |            |                          |



# 50mm F1.4

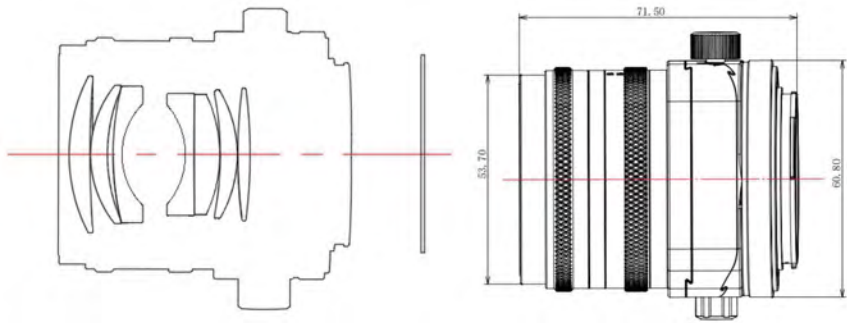
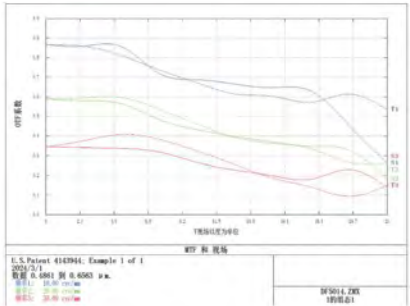
## Full Frame 360° Rotatable Lens



50mm F1.4 Full Frame 360° Rotatable Lens

### Specification

|                         |       |                                          |          |          |            |
|-------------------------|-------|------------------------------------------|----------|----------|------------|
| Item                    |       | 50mm F1.4 Full Frame 360° Rotatable Lens |          |          |            |
| Model                   |       | F5014A                                   |          |          |            |
| Focal Length            |       | 50mm                                     |          |          |            |
| Equivalent Focal Length |       | 75mm                                     |          |          |            |
| Image Format            |       | Full Frame                               |          |          |            |
| Mount                   |       | E, M4/3, FX, EOSM                        |          |          |            |
| F No.                   |       | F/1.4~16                                 |          |          |            |
| Image Diameter          |       | Φ28.4                                    |          |          |            |
| Focusing range          |       | 0.5m~∞                                   |          |          |            |
| Diaphragm Leaves        |       | 12 blades                                |          |          |            |
| Field Angle             | (HXV) | Φ28.4mm                                  | D<br>46° | H<br>39° | V<br>26.3° |
| TTL                     |       | 82.9mm                                   |          |          |            |
| Lens construction       |       | 7 pieces in 6 groups                     |          |          |            |
| Distortion              |       | 1.9%                                     |          |          |            |
| Working Wavelength      |       | 400~700nm                                |          |          |            |
| Relative Illumination   |       | >0.2                                     |          |          |            |
| B.F.L.                  |       | 38.5mm                                   |          |          |            |
| Operation               | Focus | Manual                                   |          |          |            |
|                         | Zoom  | /                                        |          |          |            |
| Dimension               | Iris  | Manual                                   |          |          |            |
|                         |       | Φ53*L70mm                                |          |          |            |
| Heavy volume            |       | 320g                                     |          |          |            |



# 50mm F1.4 Full Frame Tilt-Shift Lens



50mm F1.4 Full Frame Tilt-Shift Lens

## Specification

| Item                  | 50mm F1.4 Full Frame Tilt-Shift Lens    |
|-----------------------|-----------------------------------------|
| Model                 | F5014B                                  |
| Lens Purpose          | Portrait Lens                           |
| Lens Type             | Fixed                                   |
| Lens Structure        | 7 pieces in 6 Groups                    |
| Lens Mount            | Mirrorless NEX-E, M43, FX, Nikon1, EOSM |
| Filter Size           | 46mm                                    |
| Optical Specification |                                         |
| Max Aperture          | F1.4                                    |
| Min Aperture          | F16                                     |
| Aperture Blades       | 12 blades                               |
| Focal Length          | 50 mm                                   |
| Equivalent Focal Lens | 50mm                                    |
| M.O.D                 | 0.5m                                    |
| Magnification         | 0.11                                    |
| Full Frame            |                                         |
| Fixed Angle           | 39°                                     |
| V                     | 23.5°                                   |
| D                     | 46.2°                                   |
| APS-C Frame           |                                         |
| Fixed Angle           | 26°                                     |
| V                     | 19.2°                                   |
| D                     | 30.8°                                   |
| 4/3 Frame             |                                         |
| Fixed Angle           | 19.8°                                   |
| V                     | 14.9°                                   |
| D                     | 24.5°                                   |
| Other Specification   |                                         |
| Lens Diameter         | 66mm                                    |
| Lens Length           | 105mm                                   |
| Lens Weight           | 392g                                    |

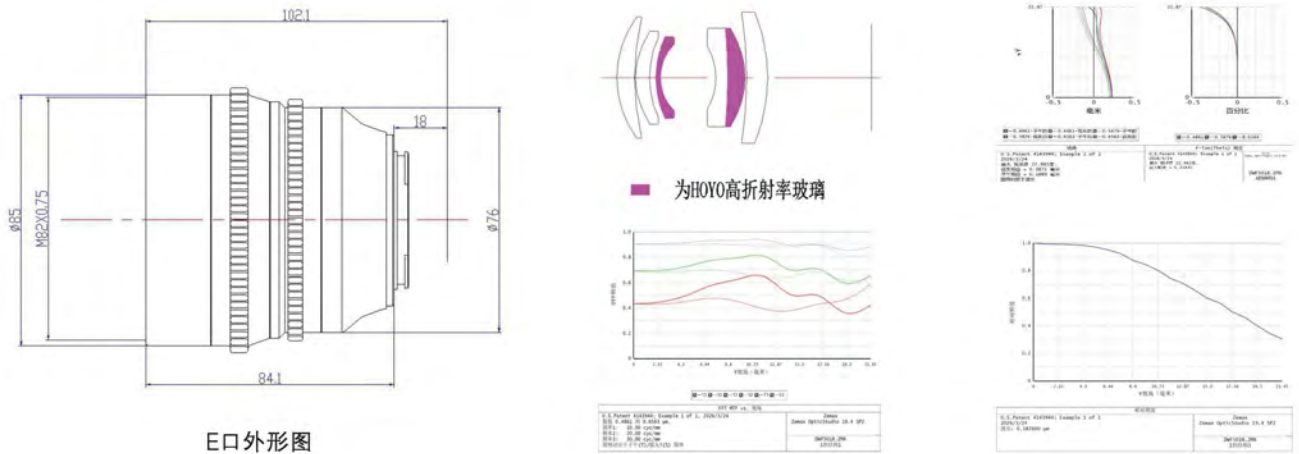
# 50mm F2.0 Full Frame Fixed Focus Lens



50mm F2.0 Full Frame Fixed Focus Lens

## Specification

| Item                    |              | 50mm F2.0 Full Frame Fixed Focus Lens |          |            |            |
|-------------------------|--------------|---------------------------------------|----------|------------|------------|
| Model                   |              | F5020                                 |          |            |            |
| Focal Length            |              | 50mm                                  |          |            |            |
| Equivalent Focal Length |              | 50mm                                  |          |            |            |
| Image Format            |              | Full Frame                            |          |            |            |
| Mount                   |              | NEX-E, M4/3, FX, Z, EOSM, RF          |          |            |            |
| F No.                   |              | 52mm                                  |          |            |            |
| Filter mount            |              | Φ82*0.75                              |          |            |            |
| Focusing range          |              | 0.48m~∞                               |          |            |            |
| Diaphragm Leaves        |              | 12 blades                             |          |            |            |
| Field Angle             | (HXV)<br>3:2 | Full Frame                            | D<br>46° | H<br>39.2° | V<br>26.8° |
| TTL                     |              | 66.9mm                                |          |            |            |
| Lens construction       |              | 6 pieces in 5 groups                  |          |            |            |
| Distortion              |              | <0.5%                                 |          |            |            |
| Working Wavelength      |              | 400~700nm                             |          |            |            |
| Relative Illumination   |              | 0.6                                   |          |            |            |
| B.F.L.                  |              | 27.3mm                                |          |            |            |
| Operation               | Focus        | Manual                                |          |            |            |
|                         | Zoom         | /                                     |          |            |            |
| Dimension               | Iris         | Manual                                |          |            |            |
|                         |              |                                       |          |            |            |
| Heavy volume            |              | 310g                                  |          |            |            |



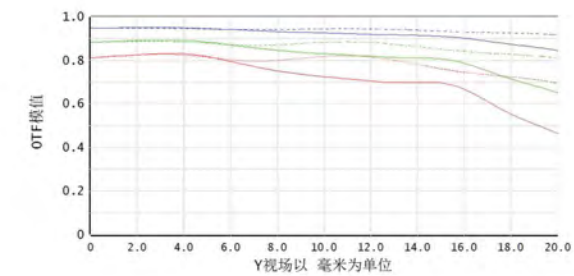
9mm F5.6  
Full Frame Ultra Wide Angle lens



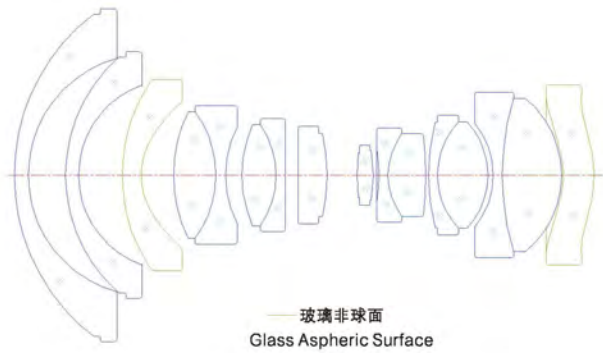
9mm F5.6 Full Frame Ultra Wide Angle lens

Specification

|                         |       |                                           |           |             |             |
|-------------------------|-------|-------------------------------------------|-----------|-------------|-------------|
| Item                    |       | 9mm F5.6 Full Frame Ultra Wide Angle lens |           |             |             |
| Model                   |       | F956                                      |           |             |             |
| Focal Length            |       | 9mm                                       |           |             |             |
| Equivalent Focal Length |       | 9mm                                       |           |             |             |
| Image Format            |       | Full Frame                                |           |             |             |
| Mount                   |       | M, NEX-E, M4/3, FX, Z, RF, L              |           |             |             |
| F No.                   |       | F/5.6~22                                  |           |             |             |
| Image Diameter          |       | Φ43.3                                     |           |             |             |
| Focusing range          |       | 0.2m~∞                                    |           |             |             |
| Diaphragm Leaves        |       | 5 blades                                  |           |             |             |
| Field Angle             | (HXV) | Φ43.3mm                                   | D<br>132° | H<br>123.5° | V<br>101.2° |
| TTL                     |       | 98.4mm                                    |           |             |             |
| Lens construction       |       | 14G+2ASP pieces in 11 groups              |           |             |             |
| Distortion              |       | <1.4%                                     |           |             |             |
| Working Wavelength      |       | 400~700nm                                 |           |             |             |
| Relative Illumination   |       | >0.3                                      |           |             |             |
| B.F.L.                  |       | 20.9mm                                    |           |             |             |
| Operation               | Focus | Manual                                    |           |             |             |
|                         | Zoom  | /                                         |           |             |             |
|                         | Iris  | Manual                                    |           |             |             |
| Dimension               |       | Φ 55 *L 78 mm                             |           |             |             |
| Heavy volume            |       | 459g                                      |           |             |             |



|                              |  |                            |  |
|------------------------------|--|----------------------------|--|
| Lens has no title., 2022/3/5 |  | Zemax                      |  |
| 数据 0.4358 到 0.6563 μm        |  | Zemax OpticStudio 19.4 SP2 |  |
| 频率1: 10.00 cyc/mm            |  | wdF0956-1.zmx              |  |
| 频率2: 20.00 cyc/mm            |  | 100结构1                     |  |
| 频率3: 30.00 cyc/mm            |  |                            |  |
| 图例对应于子午(T)/弧矢(S) 频率          |  |                            |  |



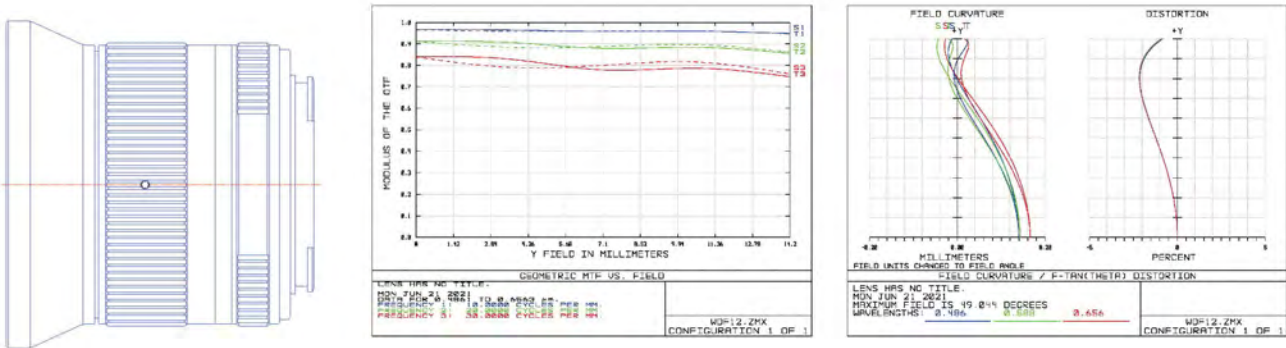
# 12mm F2.8 APS-C Wide-Angle Lens



12mm F2.8 APS-C Wide-Angle Lens

## Specification

| Item                    |       |                       | 12mm F2.8 APS-C Wide-Angle Lens |          |          |
|-------------------------|-------|-----------------------|---------------------------------|----------|----------|
| Model                   |       |                       | 1228A                           |          |          |
| Focal Length            |       |                       | 12mm                            |          |          |
| Equivalent Focal Length |       |                       | 18mm                            |          |          |
| Image Format            |       |                       | APS-C                           |          |          |
| Mount                   |       |                       | NEX-E, M4/3, FX, Z, EOSM        |          |          |
| F No.                   |       |                       | F/2.8~22                        |          |          |
| Image Diameter          |       |                       | Φ28.4                           |          |          |
| Focusing range          |       |                       | 0.15 m~∞                        |          |          |
| Diaphragm Leaves        |       |                       | 5 blades                        |          |          |
| Field Angle             | (HXV) | Φ28.4mm               | D<br>100°                       | H<br>89° | V<br>66° |
| TTL                     |       |                       | 176.8mm                         |          |          |
| Lens construction       |       |                       | 12 pieces in 10 groups          |          |          |
| Distortion              |       |                       | <1.5%                           |          |          |
| Working Wavelength      |       |                       | 400-700nm                       |          |          |
| Relative Illumination   |       |                       | >0.45                           |          |          |
| B.F.L.                  |       |                       | 14mm                            |          |          |
| Operation               |       | Focus<br>Zoom<br>Iris | Manual<br>/<br>Manual           |          |          |
| Dimension               |       |                       | Φ74.5*L65mm                     |          |          |
| Heavy volume            |       |                       | 328g                            |          |          |



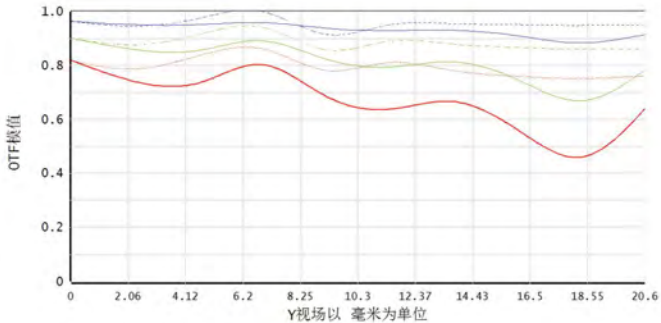
12mm F2.8  
Full Frame Wide Angle Lens



12mm F2.8 Full Frame Wide Angle Lens

Specification

|                         |       |                                      |             |             |            |
|-------------------------|-------|--------------------------------------|-------------|-------------|------------|
| Item                    |       | 12mm F2.8 Full Frame Wide Angle Lens |             |             |            |
| Model                   |       | F1228                                |             |             |            |
| Focal Length            |       | 12mm                                 |             |             |            |
| Equivalent Focal Length |       | 12mm                                 |             |             |            |
| Image Format            |       | Full Frame                           |             |             |            |
| Mount                   |       | PL, F, EOSM, NEX-E, FX, Z, RF, L     |             |             |            |
| F No.                   |       | F/2.8~16                             |             |             |            |
| Image Diameter          |       | Φ43.2                                |             |             |            |
| Focusing range          |       | 0.2m~∞                               |             |             |            |
| Diaphragm Leaves        |       | 5 blades                             |             |             |            |
| Field Angle             | (HXV) | Φ43.2mm                              | D<br>121.8° | H<br>111.3° | V<br>87.4° |
| TTL                     |       | 128.8mm                              |             |             |            |
| Lens construction       |       | 11 pieces in 8 groups                |             |             |            |
| Distortion              |       | <1.8%                                |             |             |            |
| Working Wavelength      |       | 400~700nm                            |             |             |            |
| Relative Illumination   |       | >0.35                                |             |             |            |
| B.F.L.                  |       | 38.2mm                               |             |             |            |
| Operation               | Focus | Manual                               |             |             |            |
|                         | Zoom  | /                                    |             |             |            |
| Dimension               | Iris  | Manual                               |             |             |            |
|                         |       |                                      |             |             |            |
| Heavy volume            |       | Φ90*L115 mm                          |             |             |            |
|                         |       | 757.5g                               |             |             |            |



|                                                                                                                                                  |  |                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------|
| Lens has no title., 2023/2/16<br>数据: 0.4358 到 0.6563 μm.<br>频率1: 10.00 cyc/mm<br>频率2: 20.00 cyc/mm<br>频率3: 30.00 cyc/mm<br>图例对应于子午 (T)/弧矢 (S) 频率 |  | Zemax<br>Zemax OpticStudio 19.4 SP2<br>DF1228-8-2.zmx<br>1的结构3 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------|

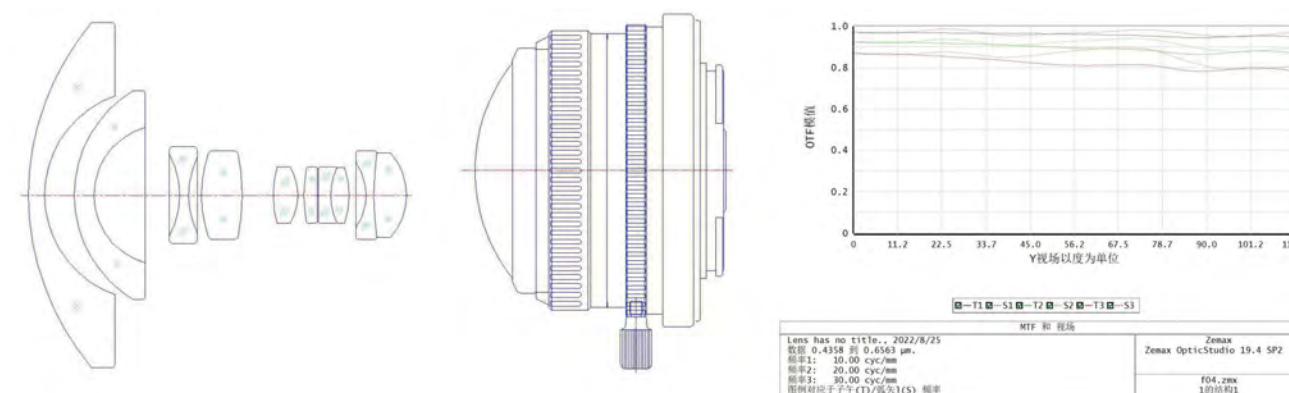
## 4mm F2.8 Ultra Wide Angle Fisheye Lens



4mm F2.8 Ultra Wide Angle Fisheye Lens

## Specification

|                         |                       |      |                                        |           |           |
|-------------------------|-----------------------|------|----------------------------------------|-----------|-----------|
| Item                    |                       |      | 4mm F2.8 Ultra Wide Angle Fisheye Lens |           |           |
| Model                   |                       |      | 0428                                   |           |           |
| Focal Length            |                       |      | 4mm                                    |           |           |
| Equivalent Focal Length |                       |      | 6mm                                    |           |           |
| Image Format            |                       |      | APS-C                                  |           |           |
| Mount                   |                       |      | E, FX, M4/3                            |           |           |
| F No.                   |                       |      | F/2.8~16                               |           |           |
| Filter mount            |                       |      | Φ 12.5                                 |           |           |
| Focusing range          |                       |      | 0.15m~∞                                |           |           |
| Diaphragm Leaves        |                       |      | 7 blades                               |           |           |
| Field Angle             | (HXV)                 | M4/3 | D<br>225°                              | H<br>225° | V<br>225° |
| TTL                     |                       |      | 63mm                                   |           |           |
| Lens construction       |                       |      | 10 pieces in 8 groups                  |           |           |
| Distortion              |                       |      | -160%                                  |           |           |
| Working Wavelength      |                       |      | 400-700nm                              |           |           |
| Relative Illumination   |                       |      | >0.5                                   |           |           |
| B.F.L.                  |                       |      | 15mm                                   |           |           |
| Operation               | Focus<br>Zoom<br>Iris |      | Manual<br>/<br>Manual                  |           |           |
| Dimension               |                       |      | Φ60*L54mm                              |           |           |
| Heavy volume            |                       |      | 201g                                   |           |           |



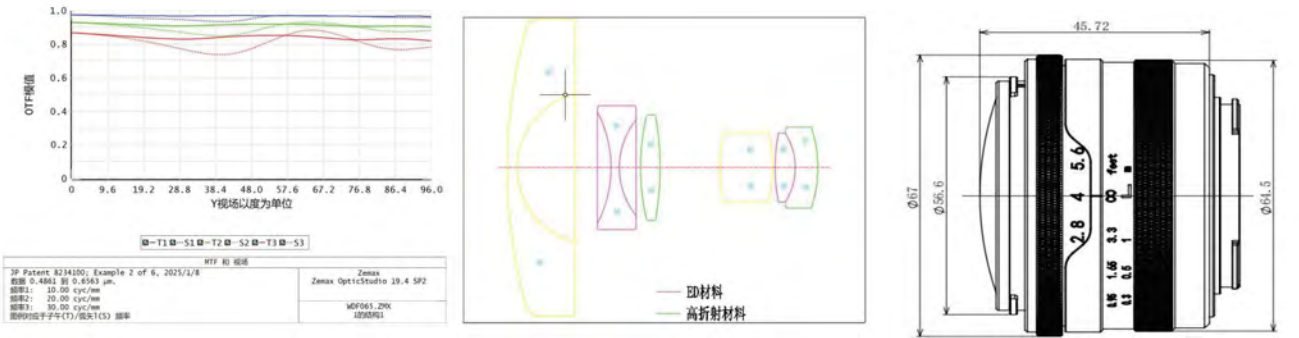
6.5mm F2.0  
APS-C Fisheye Lens



6.5mm F2.0 APS-C Fisheye Lens

Specification

|                         |       |                               |           |           |           |
|-------------------------|-------|-------------------------------|-----------|-----------|-----------|
| Item                    |       | 6.5mm F2.0 APS-C Fisheye Lens |           |           |           |
| Model                   |       | 06520                         |           |           |           |
| Focal Length            |       | 6.5mm                         |           |           |           |
| Equivalent Focal Length |       | 9.7mm                         |           |           |           |
| Image Format            |       | APS-C                         |           |           |           |
| Mount                   |       | E/FX/ M4/3/RF/Z               |           |           |           |
| F No.                   |       | F/2.0~22                      |           |           |           |
| Filter mount            |       | Φ 16                          |           |           |           |
| Focusing range          |       | 0.2m~ ∞                       |           |           |           |
| Diaphragm Leaves        |       | 9 blades                      |           |           |           |
| Field Angle             | (HXV) | Φ16 mm                        | D<br>192° | H<br>192° | V<br>192° |
| TTL                     |       | 64.6mm                        |           |           |           |
| Lens construction       |       | 6 pieces in 5 groups          |           |           |           |
| Distortion              |       | -115%                         |           |           |           |
| Working Wavelength      |       | 400-700nm                     |           |           |           |
| Relative Illumination   |       | >0.65                         |           |           |           |
| B.F.L.                  |       | 14.46mm                       |           |           |           |
| Operation               | Focus | Manual                        |           |           |           |
|                         | Zoom  | /                             |           |           |           |
|                         | Iris  | Manual                        |           |           |           |
| Dimension               |       | Φ61*L46.5mm                   |           |           |           |
| Heavy volume            |       | ≈ 300g                        |           |           |           |



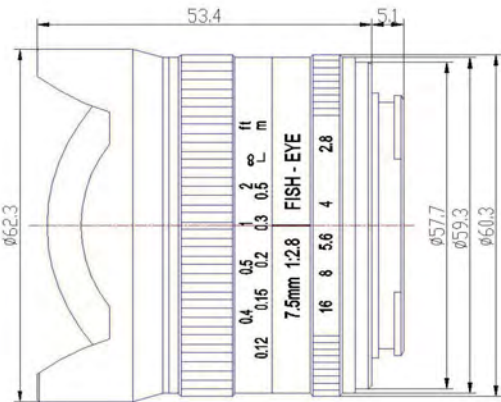
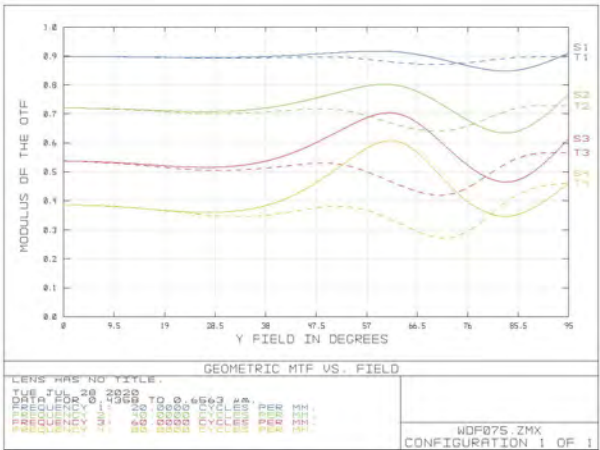
# 7.5mm F2.8 Ultra Wide Angle Fisheye Lens



7.5mm F2.8 Ultra Wide Angle Fisheye Lens

## Specification

|                         |       |                                          |           |           |           |  |
|-------------------------|-------|------------------------------------------|-----------|-----------|-----------|--|
| Item                    |       | 7.5mm F2.8 Ultra Wide Angle Fisheye Lens |           |           |           |  |
| Model                   |       | 07528                                    |           |           |           |  |
| Focal Length            |       | 7.5mm                                    |           |           |           |  |
| Equivalent Focal Length |       |                                          |           |           |           |  |
| Image Format            |       | APS-C                                    |           |           |           |  |
| Mount                   |       | NEX-E, M4/3, FX, Nikon1, EOSM            |           |           |           |  |
| F No.                   |       | F/2.8~16                                 |           |           |           |  |
| Image Diameter          |       | Φ28.4                                    |           |           |           |  |
| Focusing range          |       | 0.12m~∞                                  |           |           |           |  |
| Diaphragm Leaves        |       | 7 blades                                 |           |           |           |  |
| Field Angle             | (HXV) | Φ28.4mm                                  | D<br>190° | H<br>162° | V<br>110° |  |
| TTL                     |       | 69.9mm                                   |           |           |           |  |
| Lens construction       |       | 11 pieces in 9 groups                    |           |           |           |  |
| Distortion              |       | -115%                                    |           |           |           |  |
| Working Wavelength      |       | 400-700nm                                |           |           |           |  |
| Relative Illumination   |       | >0.55                                    |           |           |           |  |
| B.F.L.                  |       | 14.2mm                                   |           |           |           |  |
| Operation               | Focus | Manual                                   |           |           |           |  |
|                         | Zoom  | /                                        |           |           |           |  |
|                         | Iris  | Manual                                   |           |           |           |  |
| Dimension               |       | Φ62.3*L57.5mm                            |           |           |           |  |
| Heavy volume            |       | 265g                                     |           |           |           |  |



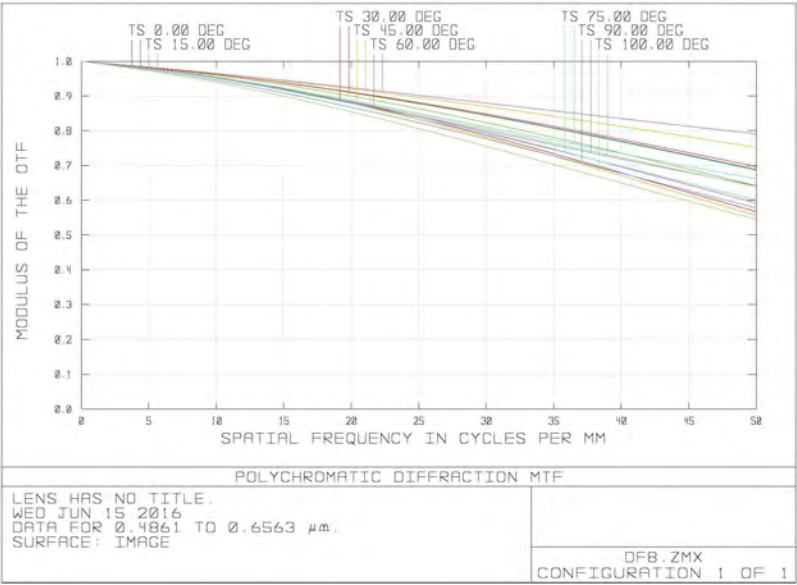
# 7.5mm F3.5 Ultra Wide Angle Fisheye Lens



7.5mm F3.5 Ultra Wide Angle Fisheye Lens

## Specification

|                         |       |                                          |           |           |           |
|-------------------------|-------|------------------------------------------|-----------|-----------|-----------|
| Item                    |       | 7.5mm F3.5 Ultra Wide Angle Fisheye Lens |           |           |           |
| Model                   |       | 75F35                                    |           |           |           |
| Focal Length            |       | 7.5mm                                    |           |           |           |
| Equivalent Focal Length |       | 11mm                                     |           |           |           |
| Image Format            |       | APS-C                                    |           |           |           |
| Mount                   |       | EF, F, NEX-E, M4/3, FX, EOSM             |           |           |           |
| F No.                   |       | F/3.5~22                                 |           |           |           |
| Image Diameter          |       | 0.29m~∞                                  |           |           |           |
| Focusing range          |       | Φ28.5                                    |           |           |           |
| Diaphragm Leaves        |       | 8 groups, 11 blades                      |           |           |           |
| Field Angle             | (HXV) | Φ28.4mm                                  | D<br>200° | H<br>160° | V<br>104° |
| TTL                     |       | 69.9mm                                   |           |           |           |
| Lens construction       |       | 11 pieces in 8 groups                    |           |           |           |
| Working Wavelength      |       | 400nm~700nm                              |           |           |           |
| B.F.L.                  |       | 39.88mm                                  |           |           |           |
| Operation               | Focus | Manual                                   |           |           |           |
|                         | Zoom  | /                                        |           |           |           |
| Dimension               | Iris  | Manual                                   |           |           |           |
|                         |       |                                          |           |           |           |
| Heavy volume            |       | Φ78*L84mm                                |           |           |           |
|                         |       | 657g                                     |           |           |           |



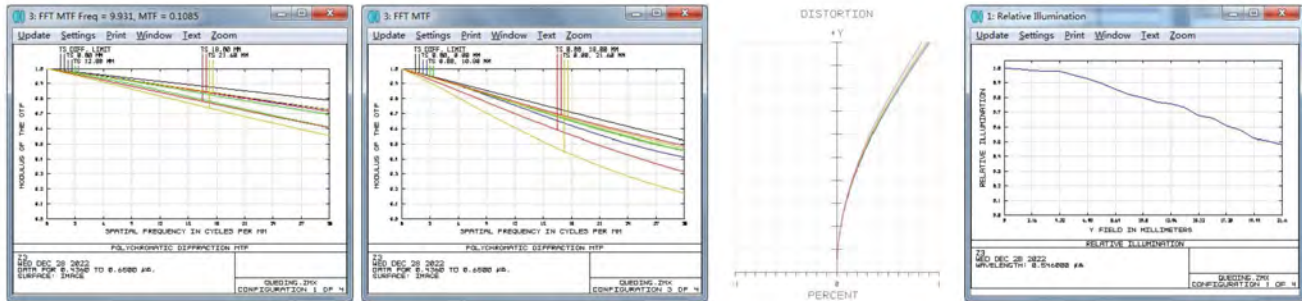
# 25mm F2.8 Full Frame 2X-5X Zoom Macro Lens



25mm F2.8 Full Frame 2X-5X Zoom Macro Lens

## Specification

|                       |              |              |                                            |            |            |
|-----------------------|--------------|--------------|--------------------------------------------|------------|------------|
| Item                  |              |              | 25mm F2.8 Full Frame 2X-5X Zoom Macro Lens |            |            |
| Model                 |              |              | F2528 (2X-5X)                              |            |            |
| Focal Length          |              |              | 25mm                                       |            |            |
| Magnification         |              |              | 2x-5x                                      |            |            |
| Image Format          |              |              | Full-Frame                                 |            |            |
| Mount                 |              |              | Sony E                                     |            |            |
| F No.                 |              |              | F2.8-F16                                   |            |            |
| Filter mount          |              |              |                                            |            |            |
| Focusing range        |              |              | 37.5mm~45mm                                |            |            |
| Diaphragm Leaves      |              |              | 8 blades                                   |            |            |
| Field Angle           | (HXV)<br>3:2 | 2x<br>5x     | D<br>20°                                   | H<br>17.2° | V<br>11.6° |
|                       |              |              | D<br>9.0°                                  | H<br>8.0°  | V<br>4.3°  |
| TTL                   |              |              | 113mm                                      |            |            |
| Lens construction     |              |              | 10 pieces in 7 groups                      |            |            |
| Distortion            |              |              | 0.88%-0.23%                                |            |            |
| Working Wavelength    |              |              | 436-656nm                                  |            |            |
| Relative Illumination |              |              | >0.45                                      |            |            |
| B.F.L.                |              |              | 40.5mm-115mm                               |            |            |
| Operation             | Focus        | Zoom<br>Iris | Manual                                     |            |            |
|                       |              |              | /                                          |            |            |
|                       |              |              | Manual                                     |            |            |
| Dimension             |              |              | Φ 60 *L 78 mm                              |            |            |
| Heavy volume          |              |              | 507g                                       |            |            |



放大率为2x的MTF（物距无穷远）

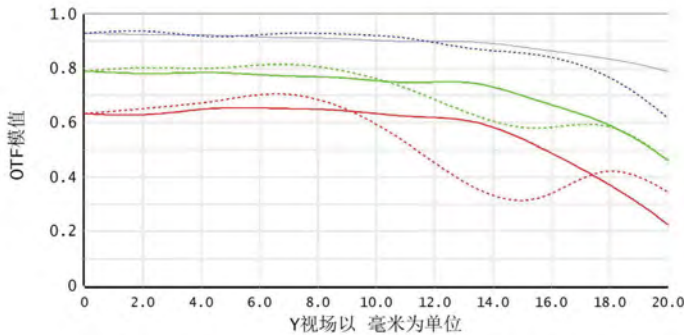
放大率为5X的MTF

60mm F2.8  
Full Frame 2X Macro Lens

60mm F2.8 Full Frame 2X Macro Lens

Specification

|                         |       |                                    |       |       |       |  |
|-------------------------|-------|------------------------------------|-------|-------|-------|--|
| Item                    |       | 60mm F2.8 Full Frame 2X Macro Lens |       |       |       |  |
| Model                   |       | F6028 (2X)                         |       |       |       |  |
| Focal Length            |       | 60mm                               |       |       |       |  |
| Equivalent Focal Length |       | 60mm                               |       |       |       |  |
| Image Format            |       | Full Frame                         |       |       |       |  |
| Mount                   |       | NEX-E, Z, RF, L                    |       |       |       |  |
| F No.                   |       | F/2.8~22                           |       |       |       |  |
| Filter mount            |       | Φ43.2                              |       |       |       |  |
| Focusing range          |       | 0.17m~∞                            |       |       |       |  |
| Diaphragm Leaves        |       | 9 blades                           |       |       |       |  |
| Field Angle             | (HXV) | Φ43.2mm                            | D     | H     | V     |  |
|                         |       |                                    | 38.4° | 32.5° | 22.2° |  |
| TTL                     |       | 120mm                              |       |       |       |  |
| Lens construction       |       | 14 pieces in 12 groups             |       |       |       |  |
| Distortion              |       | <2.8%                              |       |       |       |  |
| Working Wavelength      |       | 400~700nm                          |       |       |       |  |
| Relative Illumination   |       | >0.35                              |       |       |       |  |
| B.F.L.                  |       | 15.2mm                             |       |       |       |  |
| Operation               | Focus | Manual                             |       |       |       |  |
|                         | Zoom  | /                                  |       |       |       |  |
|                         | Iris  | Manual                             |       |       |       |  |
| Dimension               |       | Φ 70*L109mm                        |       |       |       |  |
| Heavy volume            |       | 550g                               |       |       |       |  |



|                                                                                                                                               |  |                                                             |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|--|
| Lens has no title., 2023/12/4<br>数据 0.4350 到 0.6563 μm.<br>频率1: 10.00 c/c/mm<br>频率2: 20.00 c/c/mm<br>频率3: 30.00 c/c/mm<br>图例对应于子午(T)/弧矢(S) 频率 |  | Zemax<br>Zemax OpticStudio 19.4 SP2<br>QF60W-1.zmx<br>1的结构3 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|--|

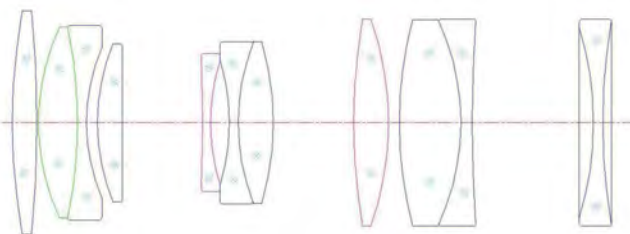
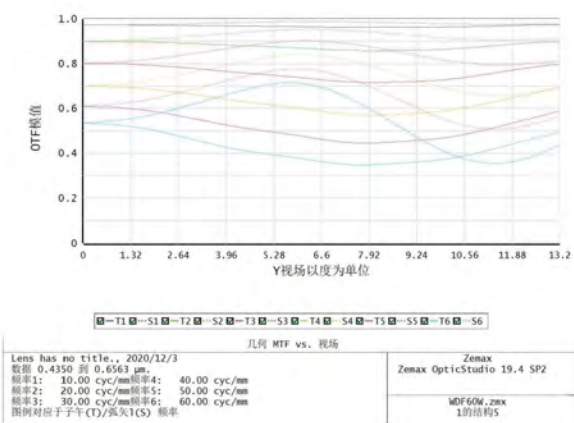
# 60mm F2.8 APS-C Macro Lens



60mm F2.8 APS-C Macro Lens

## Specification

| Item                    |       | 60mm F2.8 APS-C Macro Lens |            |                          |
|-------------------------|-------|----------------------------|------------|--------------------------|
| Model                   |       | 6028A                      |            |                          |
| Focal Length            |       | 60mm                       |            |                          |
| Equivalent Focal Length |       | 90mm                       |            |                          |
| Image Format            |       | APS-C                      |            |                          |
| Mount                   |       | NEX-E, M4/3, FX, Z, EOSM   |            |                          |
| F No.                   |       | F/2.8~22                   |            |                          |
| Filter mount            |       | Φ28.4                      |            |                          |
| Focusing range          |       | 0.175m~∞                   |            |                          |
| Diaphragm Leaves        |       | 9 blades                   |            |                          |
| Field Angle             | (HXV) | Φ28.4mm                    | D<br>26.4° | H<br>22.5°<br>V<br>15.2° |
| TTL                     |       | 91.6mm                     |            |                          |
| Lens construction       |       | 11 pieces in 8 groups      |            |                          |
| Distortion              |       | 0.75%                      |            |                          |
| Working Wavelength      |       | 400~700nm                  |            |                          |
| Relative Illumination   |       | >0.55                      |            |                          |
| B.F.L.                  |       | 18.7mm                     |            |                          |
| Operation               | Focus | Manual                     |            |                          |
|                         | Zoom  | /                          |            |                          |
|                         | Iris  | Manual                     |            |                          |
| Dimension               |       | Φ60*L80.5mm                |            |                          |
| Heavy volume            |       | 430g                       |            |                          |



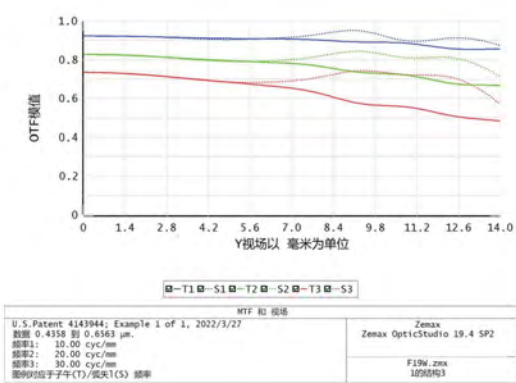
# 18mm Waterproof LED Macro S35 Frame Cine Lens



18mm Waterproof LED Macro S35 Frame Cine Lens

## Specification

| Item                    |       | 18mm Waterproof LED Macro S35 Frame Cine Lens |          |          |          |
|-------------------------|-------|-----------------------------------------------|----------|----------|----------|
| Model                   |       | F18L                                          |          |          |          |
| Focal Length            |       | 18mm                                          |          |          |          |
| Equivalent Focal Length |       | 27mm                                          |          |          |          |
| Image Format            |       | S35                                           |          |          |          |
| Mount                   |       | E, EF, RF, X, Z, L, RF, M4/3, PL              |          |          |          |
| F No.                   |       | T8~28                                         |          |          |          |
| Image Diameter          |       | Φ 31                                          |          |          |          |
| Focusing range          |       | 0.475m~∞                                      |          |          |          |
| Diaphragm Leaves        |       | 7 blades                                      |          |          |          |
| Field Angle             | (HXV) | Φ31mm                                         | D<br>80° | H<br>70° | V<br>50° |
| TTL                     |       | 469mm                                         |          |          |          |
| Lens construction       |       | 23 pieces in 17 groups                        |          |          |          |
| Distortion              |       | <3.5%                                         |          |          |          |
| Working Wavelength      |       | 400~700nm                                     |          |          |          |
| Relative Illumination   |       | >0.6                                          |          |          |          |
| B.F.L.                  |       | 39.6mm                                        |          |          |          |
| Operation               | Focus | Manual                                        |          |          |          |
|                         | Zoom  | /                                             |          |          |          |
|                         | Iris  | Manual                                        |          |          |          |
|                         |       |                                               |          |          |          |
| Dimension               |       | Φ 60 *L 457 mm                                |          |          |          |
| Heavy volume            |       | 262g                                          |          |          |          |



# 28mm Waterproof LED Macro Full-Frame Cine Lens



28mm Waterproof LED Macro Full-Frame Cine Lens

## Specification

|                         |       |                                                |          |          |          |
|-------------------------|-------|------------------------------------------------|----------|----------|----------|
| Item                    |       | 28mm Waterproof LED Macro Full-Frame Cine Lens |          |          |          |
| Model                   |       | F2813                                          |          |          |          |
| Focal Length            |       | 28mm                                           |          |          |          |
| Equivalent Focal Length |       | 28mm                                           |          |          |          |
| Image Format            |       | Full-Frame                                     |          |          |          |
| Mount                   |       | E, EF, RF, X, Z, L, RF, M4/3, PL               |          |          |          |
| F No.                   |       | T/13~40                                        |          |          |          |
| Image Diameter          |       | Φ43.3                                          |          |          |          |
| Focusing range          |       | 0.48m~∞                                        |          |          |          |
| Diaphragm Leaves        |       | 7 blades                                       |          |          |          |
| Field Angle             | (HXV) | Φ43.3mm                                        | D<br>75° | H<br>66° | V<br>47° |
| TTL                     |       | 469mm                                          |          |          |          |
| Lens construction       |       | 21 pieces in 16 groups                         |          |          |          |
| Distortion              |       | <0.75%                                         |          |          |          |
| Working Wavelength      |       | 400~700nm                                      |          |          |          |
| Relative Illumination   |       | >0.5                                           |          |          |          |
| B.F.L.                  |       | 46.6mm                                         |          |          |          |
| Operation               | Focus | Manual                                         |          |          |          |
|                         | Zoom  | /                                              |          |          |          |
|                         | Iris  | Manual                                         |          |          |          |
|                         |       |                                                |          |          |          |
| Dimension               |       | Φ 60 *L 457 mm                                 |          |          |          |
| Heavy volume            |       | 262g                                           |          |          |          |

