

CHIOPT  
长步道



# 长步道 工业镜头巨匠

广州长步道光电科技有限公司  
GuangZhou Chiopt Optotech Co.,Ltd  
湖南长步道光学科技有限公司  
Hunan Chiopt Optical Technology Co.,Ltd

地址: 广州市番禺区南村镇金山大道金山工业园1栋2楼  
Add: JinShan Industrial Park,JinShan Ave,PanYu,  
GuangZhou  
电话 Phone: +86-20-34698878  
传真 Fax: +86-20-34698633  
邮编 Pc: 511442

地址: 湖南省长沙市望城区桥驿镇五里堆  
Add: Wulidui,Qiaoyi Town,Wangcheng  
District,Changsha,Hunan Province.  
电话 Phone: +86-731-88430117-8110  
传真 Fax: +86-731-88430188  
邮编 Pc: 410011

[sales@chiopt.com](mailto:sales@chiopt.com)  
[www.chiopt.com](http://www.chiopt.com)

# COMPANY PROFILE

## 公司简介



广州长步道光电科技有限公司 GuangZhou Chiopt Optotech Co.,Ltd



湖南长步道光学科技有限公司  
Hunan Chiopt Optical Technology Co.,Ltd



长步道光电科技有限公司，是一家专注于中高端光学镜头研发、设计、生产与销售的高新技术企业。

Chiopt Optical Technology Co., Ltd is a high-tech enterprise focusing on R&D, design, production and sales of middle to high end optical lens.



具有自主开发设计AF/ZOOM镜头能力，能快速为客户提供满意的个性化产品设计（ODM）及综合解决方案。

With independent development and design ability of AF/ZOOM lens,our company is capable of providing satisfactory personalized productdesign(ODM)and integrated solutions.



两大制造基地（广州·长沙），完整的中高端光学镜头制造产业链。

Two manufacturing facilities ( Guangzhou & Changsha ), with complete production chain of optical lens.

## Manufacturing 生产技术



CV 镜头组装  
CV Lens assembling



监控镜头组装  
CCTV Lens assembling



MV 镜头组装  
MV Lens assembling



变焦 镜头组装  
Foum Lens assembling



球面镜片加工  
Optical components polishing



芯取  
Centering



镀膜  
Coating



金属部品加工  
Metal machining

## Quality Assurance 品质保证



三次元影像测量  
3D Vision Measuring Machine



偏心检测  
Eccentricity Inspection



解像力测试  
Resolution Inspection



TV 解像  
TV Resolution

**品质方针：为客户提供100%满意的产品与服务**

Quality Policy: Provide customers With 100% satisfying products and services



# 1/1.8" | 定焦FA镜头 Fixed lens for 1/1.8" FA

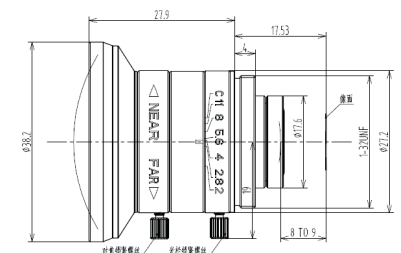
## 产品优势

- 支持500万像素相机
- 固定光圈、手动光圈可选
- 体积小
- TV畸变小于1%

## Features

- High performance for 5 Mega pixel camera
- Fixed aperture and manual aperture can be selected
- small volume
- TVFree distortion less than 1%

| 型号   | Model No                       | FA0401C            |
|------|--------------------------------|--------------------|
| 焦距   | EFL                            | 4                  |
| 通光孔径 | FNo.                           | 2-C                |
| 最大像面 | Image Size                     | 1/1.8"             |
| 角度   | Angle(HxV)                     | 1/1.8" 82.9°×66.5° |
|      |                                | 1/2.5" 70.7°×56.7° |
|      |                                | 1/3" 61.1°×47.5°   |
| 物高   | Object Dimension at M.O.D(HxV) | 1/1.8" 459×344     |
|      |                                | 1/2.5" 375×279     |
|      |                                | 1/3" 311×231       |
| 畸变   | Distortion(TV)                 | <0.5%              |
| 最近距离 | Minimum Object Distance        | 0.1M               |
| 滤镜螺纹 | Filter size                    | 无                  |
| 接口   | Mount                          | C Mount            |



02-11 Fixed Lens For FA  
定焦FA镜头

13-16 Line Scan Lens  
线扫描镜头

20-20 Macro Lens  
微距镜头

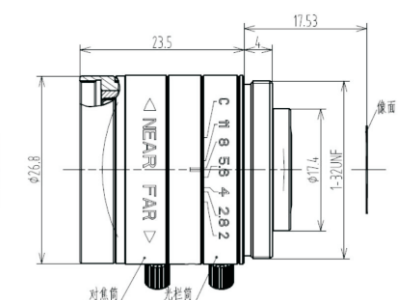
23-23 Fit for 360°image system  
360°成像系统

11-12 Large Format Lens  
大靶面镜头

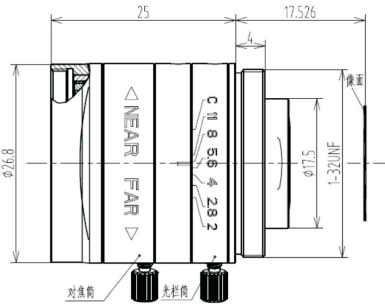
17-19 Telecentric Lens  
远心镜头

21-22 Ultra Low Distortion Board Lens  
超低畸变工业镜头

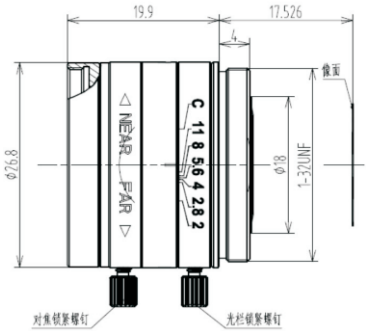
| 型号   | Model No                       | FA0601C            |
|------|--------------------------------|--------------------|
| 焦距   | EFL                            | 6                  |
| 通光孔径 | FNo.                           | 2.0-C              |
| 最大像面 | Image Size                     | 1/1.8"             |
| 角度   | Angle (HxV)                    | 1/1.8" 59.6°×46°   |
|      |                                | 1/2.5" 48.7°×36.5° |
|      |                                | 1/3" 41.9°×31.4°   |
| 物高   | Object Dimension at M.O.D(HxV) | 1/1.8" 351×263.3   |
|      |                                | 1/2.5" 287.5×215.6 |
|      |                                | 1/3" 239.4×179.6   |
| 畸变   | Distortion(TV)                 | <0.1%              |
| 最近距离 | Minimum Object Distance        | 0.1M               |
| 滤镜螺纹 | Filter size                    | M25.5×P0.5         |
| 接口   | Mount                          | C Mount            |



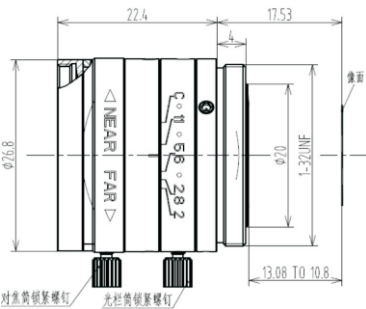
| 型号   | Model No                       |        | FA0801C      |
|------|--------------------------------|--------|--------------|
| 焦距   | EFL                            |        | 8            |
| 通光孔径 | FNo.                           |        | 2.0-C        |
| 最大像面 | Image Size                     |        | 1/1.8"       |
| 角度   | Angle (HxV)                    | 1/1.8" | 46.8°×36.0°  |
|      |                                | 1/2.5" | 38.2°×29.11° |
|      |                                | 1/3"   | 32.2°×24.5°  |
| 物高   | Object Dimension at M.O.D(HxV) | 1/1.8" | 269.4×202    |
|      |                                | 1/2.5" | 219.2×164.2  |
|      |                                | 1/3"   | 186×136.7    |
| 畸变   | Distortion(TV)                 |        | <0.1%        |
| 最近距离 | Minimum Object Distance        |        | 0.1M         |
| 滤镜螺纹 | Filter size                    |        | M25.5×P0.5   |
| 接口   | Mount                          |        | C Mount      |



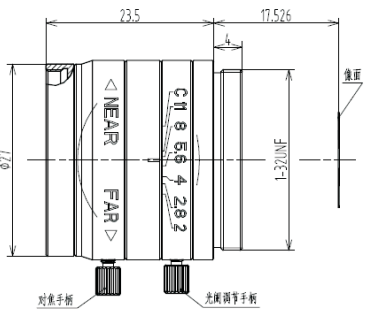
| 型号   | Model No                       |        | FA1201C     |
|------|--------------------------------|--------|-------------|
| 焦距   | EFL                            |        | 12          |
| 通光孔径 | FNo.                           |        | 2.0-C       |
| 最大像面 | Image Size                     |        | 1/1.8"      |
| 角度   | Angle (HxV)                    | 1/1.8" | 33.0°×24.3° |
|      |                                | 1/2.5" | 27.2°×20.7° |
|      |                                | 1/3"   | 22.9°×17.6° |
| 物高   | Object Dimension at M.O.D(HxV) | 1/1.8" | 182.5×136.9 |
|      |                                | 1/2.5" | 147.3×110.5 |
|      |                                | 1/3"   | 122.7×92.0  |
| 畸变   | Distortion(TV)                 |        | <0.3%       |
| 最近距离 | Minimum Object Distance        |        | 0.1M        |
| 滤镜螺纹 | Filter size                    |        | M25.5×P0.5  |
| 接口   | Mount                          |        | C Mount     |



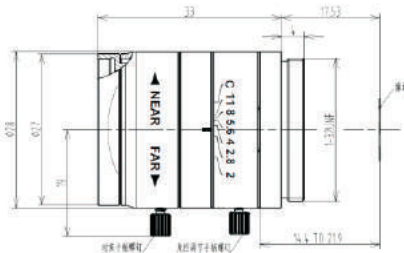
| 型号   | Model No                       |        | FA1601C     |
|------|--------------------------------|--------|-------------|
| 焦距   | EFL                            |        | 16          |
| 通光孔径 | FNo.                           |        | 2.0-C       |
| 最大像面 | Image Size                     |        | 1/1.8"      |
| 角度   | Angle (HxV)                    | 1/1.8" | 24.7°×18.2° |
|      |                                | 1/2.5" | 20.6°×15.8° |
|      |                                | 1/3"   | 17.4°×13.5° |
| 物高   | Object Dimension at M.O.D(HxV) | 1/1.8" | 134.4×100.8 |
|      |                                | 1/2.5" | 107.7×80.8  |
|      |                                | 1/3"   | 89.0×66.7   |
| 畸变   | Distortion(TV)                 |        | <0.1%       |
| 最近距离 | Minimum Object Distance        |        | 0.1M        |
| 滤镜螺纹 | Filter size                    |        | M25.5×P0.5  |
| 接口   | Mount                          |        | C Mount     |



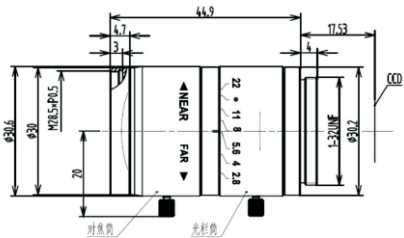
| 型号   | Model No                       |        | FA2501C     |
|------|--------------------------------|--------|-------------|
| 焦距   | EFL                            |        | 25          |
| 通光孔径 | FNo.                           |        | 2.0-C       |
| 最大像面 | Image Size                     |        | 1/1.8"      |
| 角度   | Angle (HxV)                    | 1/1.8" | 13.6°×11.3° |
|      |                                | 1/2.5" | 13.4°×10.3° |
|      |                                | 1/3"   | 11.4°×8.8°  |
| 物高   | Object Dimension at M.O.D(HxV) | 1/1.8" | 139.6×104.7 |
|      |                                | 1/2.5" | 112.1×84.1  |
|      |                                | 1/3"   | 93.4×70     |
| 畸变   | Distortion(TV)                 |        | <0.1%       |
| 最近距离 | Minimum Object Distance        |        | 0.1M        |
| 滤镜螺纹 | Filter size                    |        | M25.5×P0.5  |
| 接口   | Mount                          |        | C Mount     |



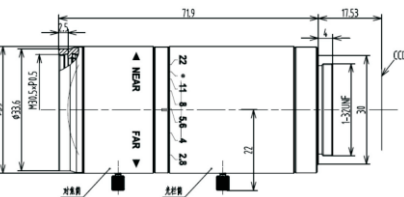
| 型号   | Model No                       |        | FA3501C    |
|------|--------------------------------|--------|------------|
| 焦距   | EFL                            |        | 25         |
| 通光孔径 | FNo.                           |        | 2.0-C      |
| 最大像面 | Image Size                     |        | 1/1.8"     |
| 角度   | Angle (HxV)                    | 1/1.8" | 8.8°×7.0°  |
|      |                                | 1/2.5" | 8.84°×6.7° |
|      |                                | 1/3"   | 7.4°×5.5°  |
| 物高   | Object Dimension at M.O.D(HxV) | 1/1.8" | 57.9×43.4  |
|      |                                | 1/2.5" | 46.5×34.9  |
|      |                                | 1/3"   | 38.7×29    |
| 畸变   | Distortion(TV)                 |        | <0.1%      |
| 最近距离 | Minimum Object Distance        |        | 0.2M       |
| 滤镜螺纹 | Filter size                    |        | M25.5×P0.5 |
| 接口   | Mount                          |        | C Mount    |



| 型号   | Model No                       |        | FA5001C   |
|------|--------------------------------|--------|-----------|
| 焦距   | EFL                            |        | 50        |
| 通光孔径 | FNo.                           |        | 2.8-22    |
| 最大像面 | Image Size                     |        | 1/1.8"    |
| 角度   | Angle (HxV)                    | 1/1.8" | 8.2°×6.1° |
|      |                                | 1/2.5" | 6.6°×4.9° |
|      |                                | 1/3"   | 5.5°×4.1° |
| 物高   | Object Dimension at M.O.D(HxV) | 1/1.8" | 36.1×27.1 |
|      |                                | 1/2.5" | 29.4×22.1 |
|      |                                | 1/3"   | 24.5×18.4 |
| 畸变   | Distortion(TV)                 |        | <0.05%    |
| 最近距离 | Minimum Object Distance        |        | 0.3M      |
| 滤镜螺纹 | Filter size                    |        | 无         |
| 接口   | Mount                          |        | C Mount   |



| 型号   | Model No                       |        | FA7501C     |
|------|--------------------------------|--------|-------------|
| 焦距   | EFL                            |        | 75          |
| 通光孔径 | FNo.                           |        | 2.8-22      |
| 最大像面 | Image Size                     |        | 1/1.8"      |
| 角度   | Angle (HxV)                    | 1/1.8" | 5.4°×4.04°  |
|      |                                | 1/2.5" | 4.4°×3.3°   |
|      |                                | 1/3"   | 3.66°×2.75° |
| 物高   | Object Dimension at M.O.D(HxV) | 1/1.8" | 40.4×29.8   |
|      |                                | 1/2.5" | 32.34×24.26 |
|      |                                | 1/3"   | 26.96×20.22 |
| 畸变   | Distortion(TV)                 |        | <0.05%      |
| 最近距离 | Minimum Object Distance        |        | 0.5M        |
| 滤镜螺纹 | Filter size                    |        | 无           |
| 接口   | Mount                          |        | C Mount     |



2/3"

# 定焦FA镜头 Fixed lens for 2/3"FA

## 产品优势

- 最佳成像质量
- 支持500万像素相机
- 低照度大通光孔径
- TV畸变小于1%
- 聚焦范围从0.1M到无穷远
- 高相对照度

## Features

- nomo-focal for best image quality
- High performace for 5 Mega pixel camera
- Large aperture ratio for low illumination
- TV Free distortion less than 1%
- Focus range from 0.1M to Infinity
- Higher relative illuminate rate at corner

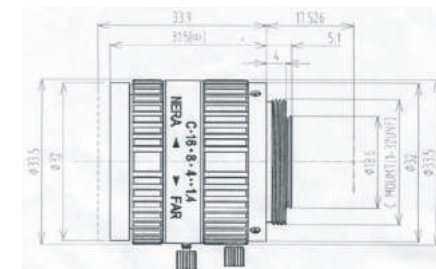
| 型号   | Model No                       | FA0802A          |
|------|--------------------------------|------------------|
| 焦距   | EFL                            | 8                |
| 通光孔径 | FNo.                           | 1.4-16           |
| 最大像面 | Image Size                     | 2/3"             |
| 角度   | Angle (HxV)                    | 2/3" 56.3°x43.7° |
|      |                                | 1/2" 42.5°x32.4° |
| 物高   | Object Dimension at M.O.D(HxV) | 2/3" 123x91      |
|      |                                | 1/2" 88x65.5     |
| 畸变   | Distortion(TV)                 | <1%              |
| 最近距离 | Minimum Object Distance        | 0.1m             |
| 滤镜螺纹 | Filter size                    | M37xP0.5         |
| 接口   | Mount                          | C Mount          |



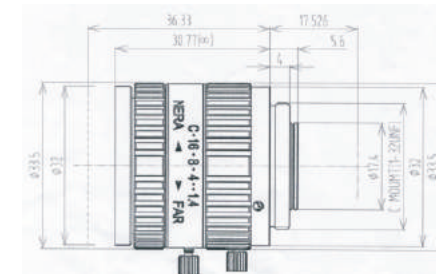
| 型号   | Model No                       | FA1202A           |
|------|--------------------------------|-------------------|
| 焦距   | EFL                            | 12                |
| 通光孔径 | FNo.                           | 1.4-16            |
| 最大像面 | Image Size                     | 2/3"              |
| 角度   | Angle (HxV)                    | 2/3" 39°x30.3°    |
|      |                                | 1/2" 29.48°x22.8° |
| 物高   | Object Dimension at M.O.D(HxV) | 2/3" 114x86       |
|      |                                | 1/2" 88x65.5      |
| 畸变   | Distortion(TV)                 | <-0.8%            |
| 最近距离 | Minimum Object Distance        | 0.15M             |
| 滤镜螺纹 | Filter size                    | M30.5xP0.5        |
| 接口   | Mount                          | C Mount           |



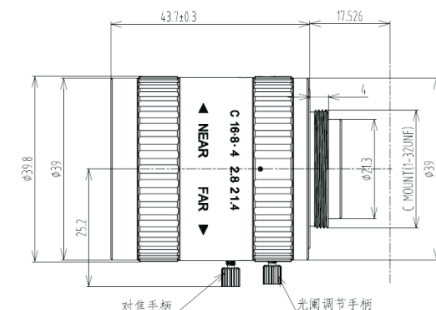
| 型号   | Model No                       | FA1602A          |
|------|--------------------------------|------------------|
| 焦距   | EFL                            | 16               |
| 通光孔径 | FNo.                           | 1.4-16           |
| 最大像面 | Image Size                     | 2/3"             |
| 角度   | Angle (HxV)                    | 2/3" 30.3°x23°   |
|      |                                | 1/2" 22.3°x16.8° |
|      |                                | 1/3" 16.8°x12.6° |
| 物高   | Object Dimension at M.O.D(HxV) | 2/3" 170.4x127.6 |
|      |                                | 1/2" 123.7x92.7  |
|      |                                | 1/3" 69.4x123.7  |
| 畸变   | Distortion(TV)                 | <0.3%            |
| 最近距离 | Minimum Object Distance        | 0.3M             |
| 滤镜螺纹 | Filter size                    | M30.5xP0.5       |
| 接口   | Mount                          | C Mount          |



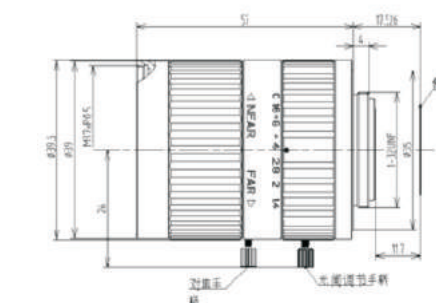
| 型号   | Model No                       | FA2502A        |
|------|--------------------------------|----------------|
| 焦距   | EFL                            | 25             |
| 通光孔径 | FNo.                           | 1.4-16         |
| 最大像面 | Image Size                     | 2/3"           |
| 角度   | Angle (HxV)                    | 2/3" 20°x15°   |
|      |                                | 1/2" 14.6°x11° |
|      |                                | 1/3" 11°x8.2°  |
| 物高   | Object Dimension at M.O.D(HxV) | 2/3" 108x82    |
|      |                                | 1/2" 79.4x59.4 |
|      |                                | 1/3" 59.4x44.4 |
| 畸变   | Distortion(TV)                 | <0.05%         |
| 最近距离 | Minimum Object Distance        | 0.3M           |
| 滤镜螺纹 | Filter size                    | M30.5xP0.5     |
| 接口   | Mount                          | C Mount        |



| 型号   | Model No                       | FA3502A          |
|------|--------------------------------|------------------|
| 焦距   | EFL                            | 35               |
| 通光孔径 | FNo.                           | 1.4-16           |
| 最大像面 | Image Size                     | 2/3"             |
| 角度   | Angle (HxV)                    | 2/3" 13.9°x10.4° |
|      |                                | 1/2" 10.1°x7.6°  |
| 物高   | Object Dimension at M.O.D(HxV) | 2/3" 81x60       |
|      |                                | 1/2" 81x60       |
| 畸变   | Distortion(TV)                 | <0.8%            |
| 最近距离 | Minimum Object Distance        | 0.2M             |
| 滤镜螺纹 | Filter size                    | M37xP0.5         |
| 接口   | Mount                          | C Mount          |



| 型号   | Model No                       | FA5002A         |
|------|--------------------------------|-----------------|
| 焦距   | EFL                            | 50              |
| 通光孔径 | FNo.                           | 1.4-C           |
| 最大像面 | Image Size                     | 2/3"            |
| 角度   | Angle (HxV)                    | 2/3" 10.5°x7.9° |
|      |                                | 1/2" 7.6°x5.27° |
| 物高   | Object Dimension at M.O.D(HxV) | 2/3" 46.8x35.08 |
|      |                                | 1/2" 46.8x35.08 |
| 畸变   | Distortion(TV)                 | <-0.8%          |
| 最近距离 | Minimum Object Distance        | 0.3M            |
| 滤镜螺纹 | Filter size                    | M37xP0.5        |
| 接口   | Mount                          | C Mount         |



1"

# 定焦FA镜头 Fixed lens for 1"FA



## 产品优势

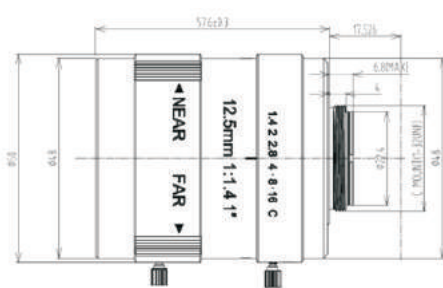
- 支持500万像素相机
- 固定光圈、手动光圈可选
- 体积小
- TV畸变小于1%



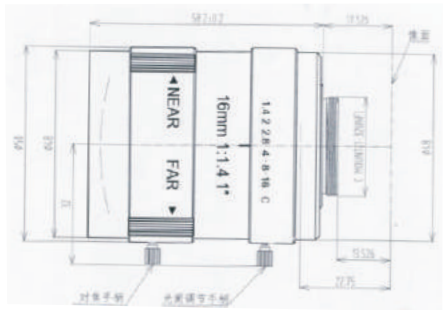
## Features

- High performace for 5 Mega piexl camera
- Fixed aperture and manual aperture can be selected
- small volume
- TV Free distortion less than 1%

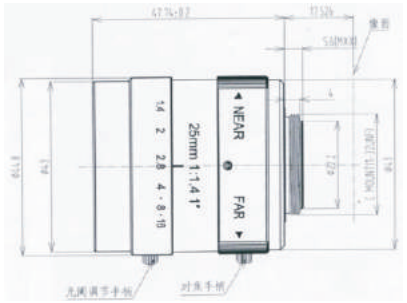
| 型号   | Model No                       | HC1205A          |
|------|--------------------------------|------------------|
| 焦距   | EFL                            | 12.5             |
| 通光孔径 | FNo.                           | 1.4-16           |
| 最大像面 | Image Size                     | 1"               |
| 角度   | Angle (HxV)                    | 1" 54.5°×42°     |
|      |                                | 2/3" 38.5°×29.1° |
|      |                                | 1/2" 28.8°×21.7° |
| 物高   | Object Dimension at M.O.D(HxV) | 1" 126.4×93      |
|      |                                | 2/3" 84.9×63     |
|      |                                | 1/2" 62.3×46.4   |
| 畸变   | Distortion(TV)                 | <1.8%            |
| 最近距离 | Minimum Object Distance        | 0.1M             |
| 滤镜螺纹 | Filter size                    | M46xP0.75        |
| 接口   | Mount                          | C Mount          |



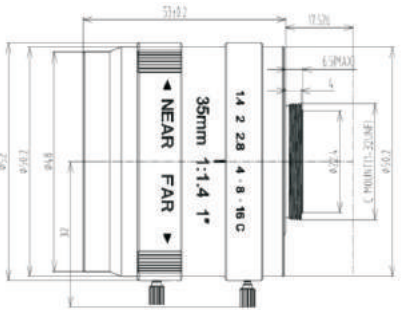
| 型号   | Model No                       | HC1605A          |
|------|--------------------------------|------------------|
| 焦距   | EFL                            | 16               |
| 通光孔径 | FNo.                           | 1.4-16           |
| 最大像面 | Image Size                     | 1"               |
| 角度   | Angle (HxV)                    | 1" 42.4°×32.4°   |
|      |                                | 2/3" 29.9°×22.7° |
|      |                                | 1/2" 21.2°×16.5° |
| 物高   | Object Dimension at M.O.D(HxV) | 1" 489×366       |
|      |                                | 2/3" 335×251     |
|      |                                | 1/2" 243×183     |
| 畸变   | Distortion(TV)                 | <0.2%            |
| 最近距离 | Minimum Object Distance        | 0.1M             |
| 滤镜螺纹 | Filter size                    | M40.5×P0.5       |
| 接口   | Mount                          | C Mount          |



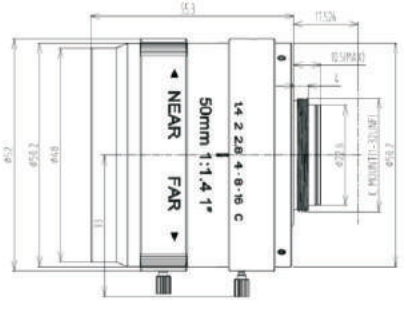
| 型号   | Model No                       | HC2505A            |
|------|--------------------------------|--------------------|
| 焦距   | EFL                            | 25                 |
| 通光孔径 | FNo.                           | 1.4-16             |
| 最大像面 | Image Size                     | 1"                 |
| 角度   | Angle (HxV)                    | 1" 28.7°×22.06°    |
|      |                                | 2/3" 20.34°×15.78° |
|      |                                | 1/2" 15.34°×11.84° |
| 物高   | Object Dimension at M.O.D(HxV) | 1" 47.28×35.46     |
|      |                                | 2/3" 32.5×24.38    |
|      |                                | 1/2" 23.64×17.72   |
| 畸变   | Distortion(TV)                 | <0.1%              |
| 最近距离 | Minimum Object Distance        | 0.1M               |
| 滤镜螺纹 | Filter size                    | M40.5×P0.5         |
| 接口   | Mount                          | C Mount            |



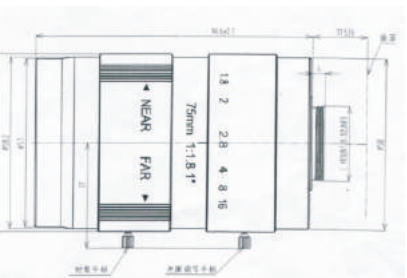
| 型号   | Model No                       | HC3505A          |
|------|--------------------------------|------------------|
| 焦距   | EFL                            | 35               |
| 通光孔径 | FNo.                           | 1.4-16           |
| 最大像面 | Image Size                     | 1"               |
| 角度   | Angle (HxV)                    | 1" 19.3°×14.3°   |
|      |                                | 2/3" 13.1°×9.8°  |
|      |                                | 1/2" 9.58°×7.16° |
| 物高   | Object Dimension at M.O.D(HxV) | 1" 53×39.7       |
|      |                                | 2/3" 36.38×27.22 |
|      |                                | 1/2" 26.4×19.78  |
| 畸变   | Distortion(TV)                 | <0.1%            |
| 最近距离 | Minimum Object Distance        | 0.15M            |
| 滤镜螺纹 | Filter size                    | M46xP0.75        |
| 接口   | Mount                          | C Mount          |



| 型号   | Model No                       | HC5005A         |
|------|--------------------------------|-----------------|
| 焦距   | EFL                            | 50              |
| 通光孔径 | FNo.                           | 1.4~16          |
| 最大像面 | Image Size                     | 1"              |
| 角度   | Angle (HxV)                    | 1" 13.9°×10.4°  |
|      |                                | 2/3" 9.6°×7.1°  |
|      |                                | 1/2" 6.96°×5.3° |
| 物高   | Object Dimension at M.O.D(HxV) | 1" 79.34×59.3   |
|      |                                | 2/3" 54.2×40.56 |
|      |                                | 1/2" 39.3×29.4  |
| 畸变   | Distortion(TV)                 | <0.1%           |
| 最近距离 | Minimum Object Distance        | 0.3M            |
| 滤镜螺纹 | Filter size                    | M46xP0.75       |
| 接口   | Mount                          | C Mount         |



| 型号   | Model No                       | HC7505A        |
|------|--------------------------------|----------------|
| 焦距   | EFL                            | 75             |
| 通光孔径 | FNo.                           | 1.8-16         |
| 最大像面 | Image Size                     | 1"             |
| 角度   | Angle (HxV)                    | 1" 9.8°×7.4°   |
|      |                                | 2/3" 6.74°×5°  |
|      |                                | 1" 111.2×83.5  |
| 物高   | Object Dimension at M.O.D(HxV) | 2/3" 76.6×57.4 |
|      |                                | 1" 111.2×83.5  |
| 畸变   | Distortion(TV)                 | <0.1%          |
| 最近距离 | Minimum Object Distance        | 0.1M           |
| 滤镜螺纹 | Filter size                    | M55×P0.75      |
| 接口   | Mount                          | C Mount        |



1"

# 千万像素定焦镜头 Fixed lens for 1" FA(10mega pixel)

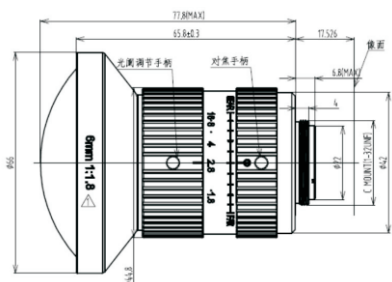
## 产品优势

- 最佳成像质量
- 支持1000万像素相机
- 低照度大通光孔径
- 畸变小于1%
- 聚焦范围从0.1M到无穷远
- 高相对照度

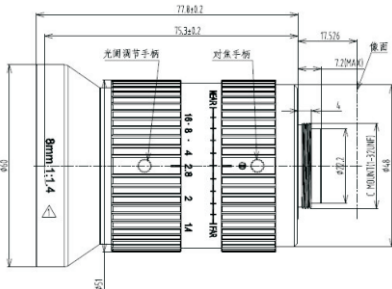
## Features

- nomo-focal for best image quality
- High performace for10Mega pixel camera
- Large aperture ratio for low illumination
- Free TV distortion less than 1%
- Focus range from 0.1M to Infinity
- Higher relative illuminate rate at corner

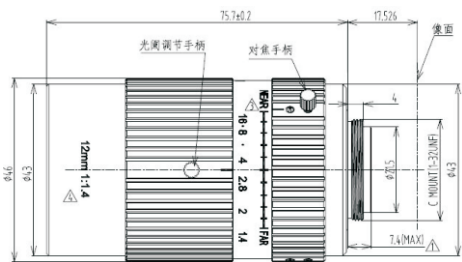
| 型号   | Model No                       |      | FA0615A     |
|------|--------------------------------|------|-------------|
| 焦距   | EFL                            |      | 6           |
| 通光孔径 | FNo.                           |      | 1.8-16      |
| 最大像面 | Image Size                     |      | 1"          |
| 角度   | Angle (HxV)                    | 1"   | 95.4°×78.4° |
|      |                                | 2/3" | 73.3°×57.5° |
| 物高   | Object Dimension at M.O.D(HxV) | 1"   | 111.2×83.5  |
|      |                                | 2/3" | 76.6×57.4   |
| 畸变   | Distortion(TV)                 |      | <2.3%       |
| 最近距离 | Minimum Object Distance        |      | 0.1M        |
| 滤镜螺纹 | Filter size                    |      | 无           |
| 接口   | Mount                          |      | C Mount     |



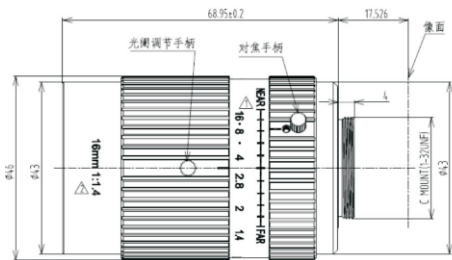
| 型号   | Model No                       |      | FA0815A     |
|------|--------------------------------|------|-------------|
| 焦距   | EFL                            |      | 8           |
| 通光孔径 | FNo.                           |      | 1.4-16      |
| 最大像面 | Image Size                     |      | 1"          |
| 角度   | Angle (HxV)                    | 1"   | 77.1°×61.8° |
|      |                                | 2/3" | 57.6°×44.9° |
| 物高   | Object Dimension at M.O.D(HxV) | 1"   | 199.2×149.4 |
|      |                                | 2/3" | 136.9×102.7 |
| 畸变   | Distortion(TV)                 |      | <5%         |
| 最近距离 | Minimum Object Distance        |      | 0.1M        |
| 滤镜螺纹 | Filter size                    |      | 无           |
| 接口   | Mount                          |      | C Mount     |



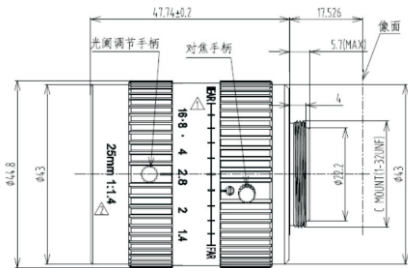
| 型号   | Model No                       |      | FA1215A      |
|------|--------------------------------|------|--------------|
| 焦距   | EFL                            |      | 12           |
| 通光孔径 | FNo.                           |      | 1.4-16       |
| 最大像面 | Image Size                     |      | 1"           |
| 角度   | Angle (HxV)                    | 1"   | 53.6°×41.8°  |
|      |                                | 2/3" | 38.7°×29.66° |
|      |                                | 1/2" | 28.8°×22°    |
| 物高   | Object Dimension at M.O.D(HxV) | 1"   | 117.3×87.96  |
|      |                                | 2/3" | 80.6×60.46   |
|      |                                | 1/2" | 58.64×44     |
| 畸变   | Distortion(TV)                 |      | <0.5%        |
| 最近距离 | Minimum Object Distance        |      | 0.1M         |
| 滤镜螺纹 | Filter size                    |      | M40.5×P0.5   |
| 接口   | Mount                          |      | C Mount      |



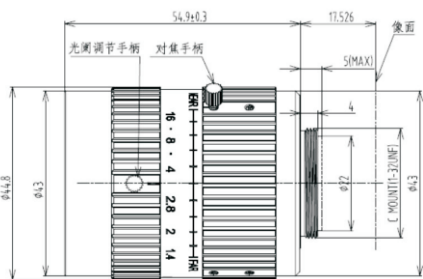
| 型号   | Model No                       |      | FA1615A       |
|------|--------------------------------|------|---------------|
| 焦距   | EFL                            |      | 16            |
| 通光孔径 | FNo.                           |      | 1.4-16        |
| 最大像面 | Image Size                     |      | 1"            |
| 角度   | Angle (HxV)                    | 1"   | 41.76°×33.68° |
|      |                                | 2/3" | 31.3°×24.6°   |
|      |                                | 1/2" | 24°×19.04°    |
| 物高   | Object Dimension at M.O.D(HxV) | 1"   | 93.94×70.44   |
|      |                                | 2/3" | 64.6×48.4     |
|      |                                | 1/2" | 47×35.2       |
| 畸变   | Distortion(TV)                 |      | <0.3%         |
| 最近距离 | Minimum Object Distance        |      | 0.1M          |
| 滤镜螺纹 | Filter size                    |      | M40.5×P0.5    |
| 接口   | Mount                          |      | C Mount       |



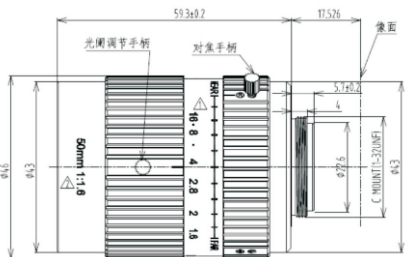
| 型号   | Model No                       |      | FA2515A       |
|------|--------------------------------|------|---------------|
| 焦距   | EFL                            |      | 25            |
| 通光孔径 | FNo.                           |      | 1.4-16        |
| 最大像面 | Image Size                     |      | 1"            |
| 角度   | Angle (HxV)                    | 1"   | 28.7°×22.06°  |
|      |                                | 2/3" | 20.34°×15.78° |
|      |                                | 1/2" | 15.34°×11.84° |
| 物高   | Object Dimension at M.O.D(HxV) | 1"   | 47.28×35.46   |
|      |                                | 2/3" | 32.5×24.38    |
|      |                                | 1/2" | 23.64×17.72   |
| 畸变   | Distortion(TV)                 |      | <0.1%         |
| 最近距离 | Minimum Object Distance        |      | 0.1M          |
| 滤镜螺纹 | Filter size                    |      | M40.5×P0.5    |
| 接口   | Mount                          |      | C Mount       |



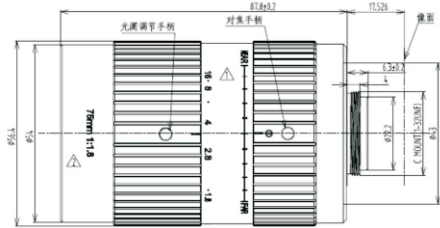
| 型号   | Model No                       |      | FA3515A       |
|------|--------------------------------|------|---------------|
| 焦距   | EFL                            |      | 35            |
| 通光孔径 | FNo.                           |      | 1.4-16        |
| 最大像面 | Image Size                     |      | 1"            |
| 角度   | Angle (HxV)                    | 1"   | 19.28°×14.32° |
|      |                                | 2/3" | 13.14°×9.8°   |
|      |                                | 1/2" | 9.58°×7.16°   |
| 物高   | Object Dimension at M.O.D(HxV) | 1"   | 53.2×39.72    |
|      |                                | 2/3" | 36.38×27.22   |
|      |                                | 1/2" | 26.64×19.78   |
| 畸变   | Distortion(TV)                 |      | <0.1%         |
| 最近距离 | Minimum Object Distance        |      | 0.15M         |
| 滤镜螺纹 | Filter size                    |      | M40.5×P0.5    |
| 接口   | Mount                          |      | C Mount       |



| 型号   | Model No                       |      | FA5015A     |
|------|--------------------------------|------|-------------|
| 焦距   | EFL                            |      | 50          |
| 通光孔径 | FNo.                           |      | 1.6-16      |
| 最大像面 | Image Size                     |      | 1"          |
| 角度   | Angle (HxV)                    | 1"   | 14.6°×11.7° |
|      |                                | 2/3" | 11.6°×8.9°  |
|      |                                | 1/2" | 8.7°×7°     |
| 物高   | Object Dimension at M.O.D(HxV) | 1"   | 64.4×51.76  |
|      |                                | 2/3" | 44.28×33.2  |
|      |                                | 1/2" | 32×24       |
| 畸变   | Distortion(TV)                 |      | <0.1%       |
| 最近距离 | Minimum Object Distance        |      | 0.3M        |
| 滤镜螺纹 | Filter size                    |      | M40.5×P0.5  |
| 接口   | Mount                          |      | C Mount     |



| 型号   | Model No                       |           | FA7515A    |
|------|--------------------------------|-----------|------------|
| 焦距   | EFL                            | 75        |            |
| 通光孔径 | FNo.                           | 1.8-16    |            |
| 最大像面 | Image Size                     | 1"        |            |
| 角度   | Angle (HxV)                    | 1"        | 9.8°×7.4°  |
|      |                                | 2/3"      | 6.74°×5°   |
| 物高   | Object Dimension at M.O.D(HxV) | 1"        | 111.2×83.5 |
|      |                                | 2/3"      | 76.6×57.4  |
| 畸变   | Distortion(TV)                 | <0.05%    |            |
| 最近距离 | Minimum Object Distance        | 0.8M      |            |
| 滤镜螺纹 | Filter size                    | M52×P0.75 |            |
| 接口   | Mount                          | C Mount   |            |



# 大靶面工业镜头

## Large format lens

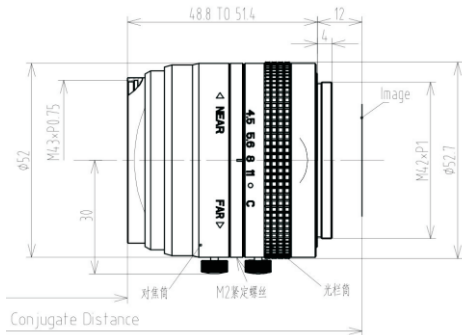
### 产品优势

- 超短工作距离
- 适配4K线扫相机
- 适用于印刷包装检测

### Features

- Super short working distance
- Fit for 4k line scan camera
- Proper for prine & package inspection

| 型号     | Model No               | LS2003A |
|--------|------------------------|---------|
| 焦距     | EFL                    | 20      |
| 标准放大倍率 | Standard Magnification | 0.0358X |
| 最大像面尺寸 | Image Size             | φ30     |
| 通光孔径   | FNo.                   | 4.5     |
| 工作距离   | Working Distance       | 557.4   |
| 法兰距离   | Flange Distance        | 12±0.1  |
| 接口     | Mechanical Mount       | M42×P1  |
| 分辨率    | Resolution             | 5μ      |



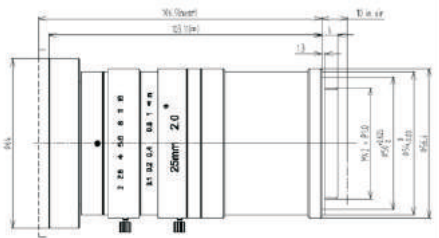
### 产品优势

- 支持5U高分辨率
- 倍率范围覆盖0.08X-0.25X
- 低畸变，小于1%

### Features

- High Resolution for 5micro pixel size
- Excellent performace from 0.08x-0.25x
- Low Distortion Less Than 1%

| 型号     | Model No         | FA2512A            |
|--------|------------------|--------------------|
| 焦距     | EFL              | 25                 |
| 最大像面尺寸 | Image Size       | φ28.1(22.5x16.9mm) |
| 通光孔径   | FNo.             | 2.0-16             |
| 工作距离   | Working Distance | 10                 |
| 法兰距离   | Flange Distance  | 0.3M               |
| 接口     | Mechanical Mount | M42×1              |
| 分辨率    | Resolution       |                    |



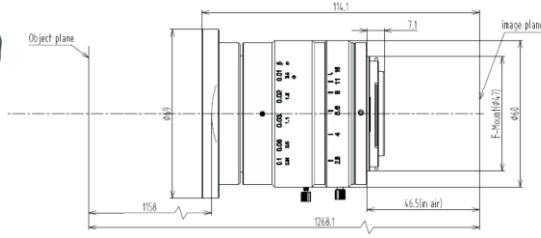
### 产品优势

- 大靶面尺寸φ45
- 支持2900万高像素相机
- 低畸变，小于0.5%

### Features

- Large Image Size φ43
- High Resolution for 29 Mega Camera
- Low Distortion Less Than 0.5%

| 型号     | Model No         | MV3503A |
|--------|------------------|---------|
| 焦距     | EFL              | 35      |
| 最大像面尺寸 | Image Size       | φ45     |
| 通光孔径   | FNo.             | 2.8-16  |
| 工作距离   | Working Distance |         |
| 法兰距离   | Flange Distance  | 0.2m    |
| 接口     | Mechanical Mount | F-Mount |
| 分辨率    | Resolution       |         |



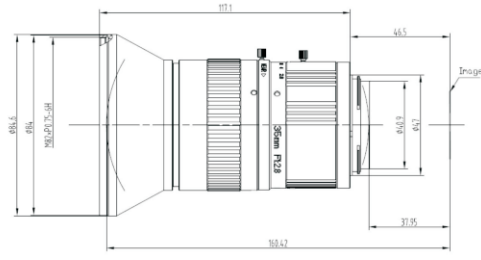
### 产品优势

- 支持5U高分辨率
- 倍率范围覆盖0.08X-0.25X
- 低畸变，小于1%

### Features

- High Resolution for 5micro pixel size
- Excellent performace from 0.08x-0.25x
- Low Distortion Less Than 1%

| 型号     | Model No         | LS3515A |
|--------|------------------|---------|
| 焦距     | EFL              | 35      |
| 最大像面尺寸 | Image Size       | φ44     |
| 通光孔径   | FNo.             | 2.8-C   |
| 工作距离   | Working Distance |         |
| 法兰距离   | Flange Distance  | 194.3   |
| 接口     | Mechanical Mount | F-Mount |
| 分辨率    | Resolution       |         |



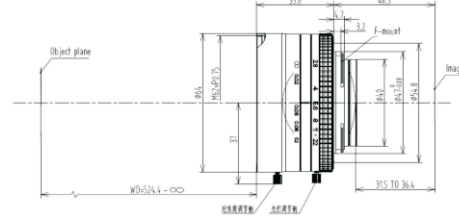
### 产品优势

- 适配2900万芯片
- 光学性能优于单反镜头
- 可适配4K线扫相机

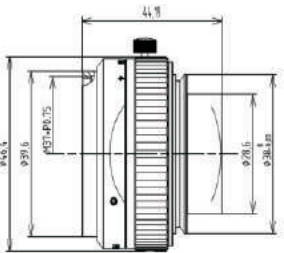
### Features

- For high resolution of 6576x4384 pixel
- Excellent optical performance
- Fit for 4k line scan camera

| 型号     | Model No               | MV5001C |
|--------|------------------------|---------|
| 焦距     | EFL                    | 50      |
| 标准放大倍率 | Standard Magnification |         |
| 最大像面尺寸 | Image Size             | φ43     |
| 通光孔径   | FNo.                   | 2.8-22  |
| 工作距离   | Working Distance       |         |
| 法兰距离   | Flange Distance        | 46.5m   |
| 共轭距    | Conjuguate Distance    |         |
| 接口     | Mechanical Mount       | F-Mount |
| 分辨率    | Resolution             |         |



低倍率线扫描镜头  
Compact line scan lens



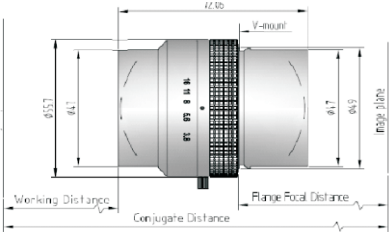
产品优势

- 专为小型线扫描相机而设计
- 可达5μ高分辨率
- 低倍率镜头适用于大尺寸检测
- 标准滤镜螺纹接口
- 可从V接口转换到M42,M58,F-mount等不同相机接口

Features

- Designed for compact line scan camera
- High resolution up to 5μpith size
- Small Magnification for the application of large size inspection.
- Standard filter thread
- Interface from V-Mount to M42,M58,F-mount

高解析线扫描镜头  
Line scan lens for 12k 5μ 16k 3.5μ camera



产品优势

- LS16A系列是专为12K 5μ 16K 3.5μ超高精细线扫描相机而开发，
- 为满足 3.5μ的解像力，镜头实际分辨率可达到160lp/mm
- 超高解像力可使16K 3.5μ相机的能力发挥到最大值
- 最大像面可达66mm，支持大靶面的12K 5μ相机
- 光学畸变小于 1 pixel
- 大通光量设计可达F3.8

Features

- LS16A Series is designed for high resolution 12k 5μ and 16k 3.5μ cameras.
- In order to fit the resolution of 3.5μ, the actual image resolution can reach 160lp/mm.
- High resolution can maximize the performance of 16k 3.5μ cameras.
- Support 12k 5μ cameras which image size is 66mm.
- Minimum optical distortion less than 1 pixel.
- FNo. 3.8

| 型号     | Specs/Model            | LS2003A   | LS2801A   | LS3508A    | LS4010A   | LS6016A   | LS8003A    | LS9001A       | LS9005A       | LS0802A   |
|--------|------------------------|-----------|-----------|------------|-----------|-----------|------------|---------------|---------------|-----------|
| 焦距     | EFL                    | 20        | 29        | 35         | 40        | 60        | 80         | 90            | 95            | 100       |
| 标准放大倍率 | Standard Magnification | 0.0358x   | 0.1x      | 0.08x      | 0.1x      | 0.167x    | 0.3x       | 0.1x          | 0.05x         | 0.2x      |
| 最大像面尺寸 | Image Size ( Dia. )    | φ30       | φ30       | φ30        | φ43       | φ64       | φ64        | φ64           | φ62           | φ66       |
| 通光孔径   | FNo.                   | 4.5       | 4         | 4.5        | 2.8       | 4         | 5.6        | 4             | 4             | 4.5       |
| 光学畸变   | Optical Distortion     | <0.2%     | <0.1%     | <0.01%     | <0.5%     | <0.2%     | <0.01%     | <0.01%        | <0.005%       | <0.005%   |
| 工作距离   | Working Distance       | 557.4     | 299.7     | 508        | 400       | 404       | 320        | 992.4         | 1980-         | 654.8     |
| 接口     | Mechanical Mount       | V-Mount   | V-Mount   | V-Mount    | V-Mount   | V-Mount   | V-Mount    | V-Mount       | V-Mount       | V-Mount   |
| 滤镜螺纹   | Filter Size            | M43xP0.75 | M35xP0.75 | M37xP0.75  | M37xP0.75 | M37xP0.75 | M37xP0.75  | M58xP0.75     | M58xP0.75     | M54xP0.75 |
| 分辨率    | Resolution             | 4K7μ      | 4K7μ      | 2K10μ/4K7μ | 4K7μ      | 4K7μ/8K7μ | 8K7μ/12K5μ | 12K5μ/16K3.5μ | 12K5μ/16K3.5μ | 8K7μ      |

Interface to Camera  
相机接口

|     |           |      |  | 编号       | 接口               | 长度          |
|-----|-----------|------|--|----------|------------------|-------------|
| 调焦环 | Focusing  | Ring |  | MT04     | Vmount to Vmount | 17. 4~29. 4 |
|     |           |      |  | MT08     | Vmount to M58    | 24~45       |
| 延伸管 | Extension | Tube |  | AD5810   | M58 to M58       | 10          |
|     |           |      |  | AD5825   | M58 to M58       | 25          |
|     |           |      |  | MT04-507 | Vmount to Vmount | 6           |
| 连接环 | Adapter   | Ring |  | MT04-508 | Vmount to M42    | 6.5         |
|     |           |      |  | MT05-507 | M58 to M72       | 2           |



| 型号     | Model No               | LS1626A | LS1603A | LS1642A | LS1605A | LS1662A | LS1667A | LS1607A |
|--------|------------------------|---------|---------|---------|---------|---------|---------|---------|
| 焦距     | EFL                    | 114     | 116     | 116     | 116     | 116     | 116     | 116     |
| 标准放大倍率 | Standard Magnification | 0.26x   | 0.33x   | 0.42x   | 0.5x    | 0.625x  | 0.67x   | 0.7x    |
| 最大像面尺寸 | Image Size ( Dia. )    | φ66     | φ66     | φ66     | φ66     | φ82     | φ66     | φ66     |
| 通光孔径   | FNo.                   | 4.2     | 4.2     | 3.8     | 3.8     | 3.8     | 3.8     | 3.8     |
| 工作距离   | Working Distance       | 497.85  | 412     | 339.7   | 296.9   | 245.8   | 237.49  | 229.4   |
| 法兰距离   | Flange Distance        | 128     | 137     | 144.5   | 153.3   | 163.6   | 170.2   | 174.4   |
| 共轭距    | Conjuguate Distance    | 672.16  | 595     | 530.1   | 496     | 455.3   | 453.5   | 447.2   |
| 接口     | Mechanical Mount       | V-Mount | V-Mount | V-Mount | V-Mount | V-Mount | V-Mount | V-Mount |
| 分辨率    | Resolution             | 16K     | 16K     | 16K     | 16K     | 16K     | 16K     | 16K     |

| 型号     | Model No               | LS1675A | LS1610A | LS1613A | LS1615A | LS1617A |
|--------|------------------------|---------|---------|---------|---------|---------|
| 焦距     | EFL                    | 100     | 116     | 116     | 116     | 116     |
| 标准放大倍率 | Standard Magnification | 0.75x   | 1.0x    | 1.33x   | 1.5x    | 1.7x    |
| 最大像面尺寸 | Image Size ( Dia. )    | φ66     | φ66     | φ84     | φ84     | φ84     |
| 通光孔径   | FNo.                   | 3.8     | 3.5     | 3.8     | 3.8     | 3.8     |
| 工作距离   | Working Distance       | 220.8   | 184.16  | 156.36  | 143.9   | 137.84  |
| 法兰距离   | Flange Distance        | 180.6   | 209.47  | 243.6   | 263.8   | 286.1   |
| 共轭距    | Conjuguate Distance    | 444.8   | 439.45  | 444.5   | 453.7   | 470     |
| 接口     | Mechanical Mount       | V-Mount | V-Mount | V-Mount | V-Mount | V-Mount |
| 分辨率    | Resolution             | 16K     | 16K     | 16K     | 16K     | 16K     |

高解析线扫描镜头

Line scan lens for 16k 5μ camera



产品优势

- LS16B系列是专为16K 5μ超大型靶面扫描相机而开发，
- 镜头可达到82mm的超大像面，对应16K 5μ型相机
- 镜头分辨率可达到160lp/mm，为相机提供更高的对比度
- 光学畸变小于 1 pixel
- 大通光量设计可达F3.8

Features

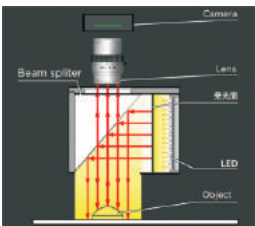
- LS16B series is designed for 16k 5μlarge-area scan camera.
- The lens can reach 82mm image size ,fit for 16k5μ camera.
- Resolution can reach 160lp/mm which provide higher contrast for the cameras.
- Minimum optical distortion less than 1 pixel.
- FNo. 3.8

| 型号     | Model No               | LS1626B | LS1603B | LS1605B | LS1662A | LS1607A | LS1683A |
|--------|------------------------|---------|---------|---------|---------|---------|---------|
| 焦距     | EFL                    | 120     | 120     | 120     | 116     | 116     | 116     |
| 标准放大倍率 | Standard Magnification | 0.26x   | 0.3x    | 0.5x    | 0.625x  | 0.7x    | 0.83x   |
| 最大像面尺寸 | Image Size ( Dia. )    | φ82     | φ82     | φ82     | φ82     | φ82     | φ82     |
| 通光孔径   | FNo.                   | 4.0     | 4.0     | 4.0     | 3.8     | 3.8     | 3.8     |
| 工作距离   | Working Distance       | 663.3   | 586.4   | 390.5   | 245.8   | 229.34  | 204.1   |
| 法兰距离   | Flange Distance        | 160.95  | 166.5   | 165     | 163.6   | 174.4   | 189.5   |
| 共轭距    | Conjuguate Distance    | 874.3   | 805.5   | 637     | 455.3   | 447.2   | 437.1   |
| 接口     | Mechanical Mount       | V-Mount | V-Mount | V-Mount | V-Mount | V-Mount | V-Mount |
| 分辨率    | Resolution             | 16K     | 16K     | 16K     | 16K     | 16K     | 16K     |

| 型号     | Model No               | LS1610A | LS1613A | LS1615A | LS1617A | LS1620B | LS1630B |
|--------|------------------------|---------|---------|---------|---------|---------|---------|
| 焦距     | EFL                    | 116     | 116     | 116     | 116     | 120     | 120     |
| 标准放大倍率 | Standard Magnification | 1.0x    | 1.33x   | 1.5x    | 1.7x    | 2x      | 3x      |
| 最大像面尺寸 | Image Size ( Dia. )    | φ82     | φ82     | φ82     | φ82     | φ82     | φ82     |
| 通光孔径   | FNo.                   | 3.8     | 3.8     | 3.8     | 3.8     | 4.0     | 4.0     |
| 工作距离   | Working Distance       | 184.16  | 156.36  | 143.9   | 137.84  | 166.4   | 143     |
| 法兰距离   | Flange Distance        | 201.4   | 243.6   | 263.8   | 286.1   | 424.3   | 568.3   |
| 共轭距    | Conjuguate Distance    | 439.45  | 444.5   | 453.7   | 470     | 637     | 757.6   |
| 接口     | Mechanical Mount       | V-Mount | V-Mount | V-Mount | V-Mount | V-Mount | V-Mount |
| 分辨率    | Resolution             | 16K     | 16K     | 16K     | 16K     | 16K     | 16K     |

同轴落射线扫描镜头

Coaxial illumination line scan lens



产品优势

- L系列镜头专为同轴照明光源系统设计，消除了使用分光棱镜引起的分辨率
- 下降，达到高分辨率、高对比度的检测要求
- 匹配16K/ 5μ并兼容16K/ 3.5μ以及12K/ 5的线扫相机；
- 附带30x80mm分光棱镜
- 光学畸变小于 1 pixel
- 大通光量设计可达F3.8

Features

- L series is designed for coaxial illumination light source system which eliminates the declined resolution
- Caused by the use of beam-splitting prism and get the requirements of high resolution and high contrast test.
- Compatible to 16k 5μ16k 3.5μand 12k 5μcameras.
- Attached with 30 x80mm beam-splitting prism.
- Minimum optical distortion less than 1 pixel.
- FNo. 3.8

| 型号     | Specs/Model            | LS1610L(-P01) | LS1613L(-P01) | LS1615L(-P01) | LS1617L(-P01) | LS1620L(-P01) | LS1630L(-P01) |
|--------|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 焦距     | EFL                    | 116           | 120           | 120           | 120           | 120           | 120           |
| 标准放大倍率 | Standard Magnification | 1.0x          | 1.33x         | 1.5x          | 1.7x          | 2x            | 3x            |
| 最大像面尺寸 | Image Size ( Dia. )    | φ82           | φ82           | φ82           | φ82           | φ82           | φ82           |
| 通光孔径   | FNo.                   | 3.8           | 4.0           | 4.0           | 4.0           | 4.0-16        | 4.0-16        |
| 光学畸变   | Optical Distortion     | <0.0005%      | <0.0003%      | <0.08%        | <0.05%        | <0.0005%      | <0.005%       |
| 相对照度   | Relative illumination  | 90%           | 90%           | 90%           | 90%           | 90%           | 90%           |
| 工作距离   | Working Distance       | 157.39        | 156.36        | 143.9         | 137.84        | 135.95        | 112.6         |
| 法兰距离   | Flange Distance        | 212.09        | 245           | 265           | 283           | 424.66        | 565.5         |
| 共轭距    | Conjuguate Distance    | 449.53        | 444.5         | 453.7         | 470           | 641.94        | 759.5         |
| 接口     | Mechanical Mount       | V-Mount       | V-Mount       | V-Mount       | V-Mount       | V-Mount       | V-Mount       |
| 分辨率    | Resolution             | 16K           | 16K           | 16K           | 16K           | 16K           | 16K           |

Interface to Camera

相机接口

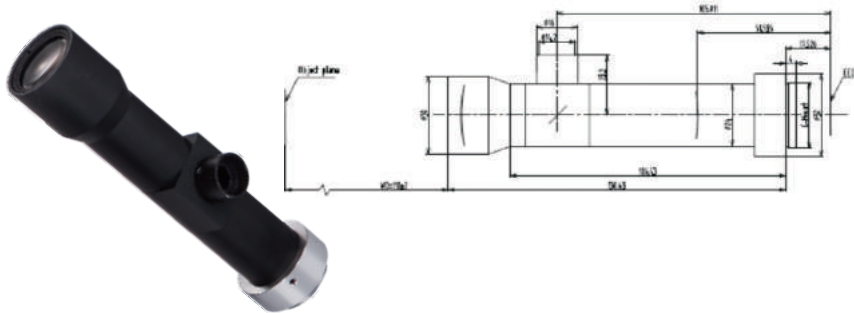
|      |                | 编号     | 接口            | 长度        |
|------|----------------|--------|---------------|-----------|
| 镜头底座 | Lens Holder    | LH5420 | Vmount to M54 | 20        |
|      |                | MT03   | M54 to M58    | 42.3~67.3 |
| 调焦环  | Focusing Ring  | MT07   | M54 to M72    | 42.3~67.3 |
|      |                | EX7210 | M72 to M72    | 10        |
| 延伸管  | Extension Tube | EX7220 | M72 to M72    | 20        |
|      |                | EX7250 | M72 to M72    | 50        |
|      |                | AD5810 | M58 to M58    | 10        |
|      |                | AD5825 | M58 to M58    | 25        |
|      |                | AD5850 | M58 to M58    | 50        |
| 连接环  | Adapter ring   | AT9550 | M72 to M95    | 50        |



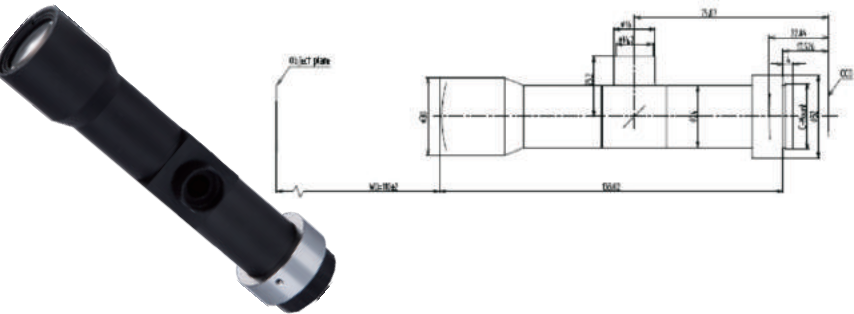
# 同轴照明远心镜头

## Coaxial illumination telecentric lens

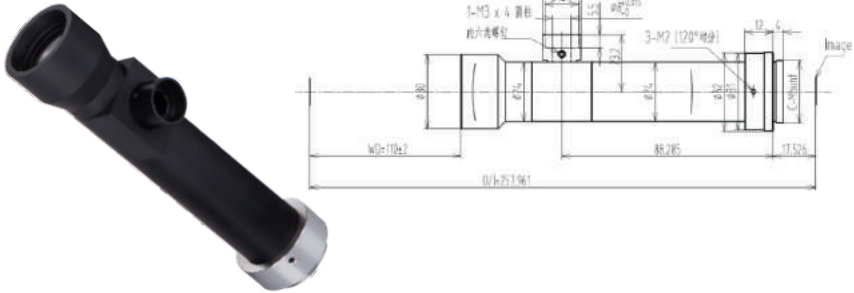
| 型号     | Model No         | MV1111A    |
|--------|------------------|------------|
| 倍率     | Reduction Ratio  | 1x         |
| 最大像面尺寸 | Max Image Circle | 2/3"       |
| 通光孔径   | FNo.             | 11         |
| 物方数值孔径 | Object NA        | 0.045      |
| 工作距离   | WD               | 110        |
| 视场角    | FOV(H*V*D)       | 11×8.8×6.6 |
| TV 畸变  | Distortion(TV)   | 0%         |
| 远心度    | Telecentricity   | <0.1°      |
| 镜头总长   | TTL              | 143        |
| 接口     | Mount            | C Mount    |
| 物方分辨率  | Resolution       | 7.4μ       |



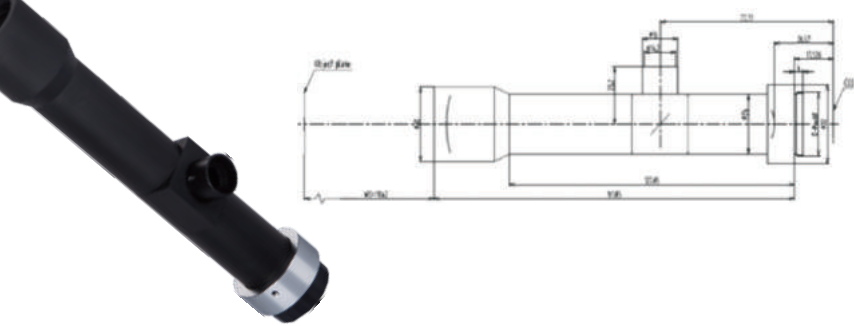
| 型号     | Model No         | MV1112A     |
|--------|------------------|-------------|
| 倍率     | Reduction Ratio  | 2x          |
| 最大像面尺寸 | Max Image Circle | 2/3"        |
| 通光孔径   | FNo.             | 13.6        |
| 物方数值孔径 | Object NA        | 0.074       |
| 工作距离   | WD               | 110         |
| 视场角    | FOV(H*V*D)       | 5.5×4.4×3.3 |
| TV 畸变  | Distortion(TV)   | <0.05%      |
| 远心度    | Telecentricity   | <0.1°       |
| 镜头总长   | TTL              | 149.73      |
| 接口     | Mount            | C Mount     |
| 物方分辨率  | Resolution       | 4.5μ        |



| 型号     | Model No         | MV1114A       |
|--------|------------------|---------------|
| 倍率     | Reduction Ratio  | 4x            |
| 最大像面尺寸 | Max Image Circle | 2/3"          |
| 通光孔径   | FNo.             | 22            |
| 物方数值孔径 | Object NA        | 0.09          |
| 工作距离   | WD               | 110           |
| 视场角    | FOV(H*V*D)       | 2.75×2.2×1.65 |
| TV 畸变  | Distortion(TV)   | <0.05%        |
| 远心度    | Telecentricity   | <0.1°         |
| 镜头总长   | TTL              | 130           |
| 接口     | Mount            | C Mount       |
| 物方分辨率  | Resolution       | 2.5μ          |



| 型号     | Model No         | MV1116A       |
|--------|------------------|---------------|
| 倍率     | Reduction Ratio  | 6x            |
| 最大像面尺寸 | Max Image Circle | 2/3"          |
| 通光孔径   | FNo.             | 35            |
| 物方数值孔径 | Object NA        | 0.085         |
| 工作距离   | WD               | 110           |
| 视场角    | FOV(H*V*D)       | 1.83×1.46×1.1 |
| TV 畸变  | Distortion(TV)   | <0.02%        |
| 远心度    | Telecentricity   | <0.1°         |
| 镜头总长   | TTL              | 173.5         |
| 接口     | Mount            | C Mount       |
| 物方分辨率  | Resolution       | 4μ            |



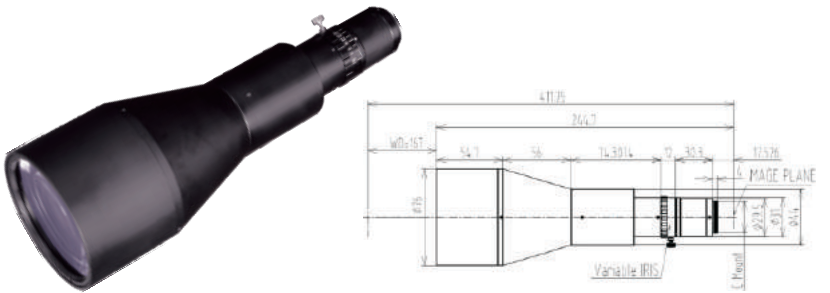
| 型号     | Model No         | MV1105A      |
|--------|------------------|--------------|
| 倍率     | Reduction Ratio  | 0.5          |
| 最大像面尺寸 | Max Image Circle | 2/3"         |
| 通光孔径   | FNo.             | 9.3          |
| 物方数值孔径 | Object NA        | 0.027        |
| 工作距离   | WD               | 110          |
| 视场角    | FOV(H*V*D)       | 17.6×13.2×22 |
| TV 畸变  | Distortion(TV)   | <0.05%       |
| 远心度    | Telecentricity   | <0.1°        |
| 镜头总长   | TTL              | 141          |
| 接口     | Mount            | C Mount      |
| 物方分辨率  | Resolution       | 12μ          |



# 工业远心镜头

## High resolution telecentric lens

| 型号     | Model No         | MV0501A        |
|--------|------------------|----------------|
| 倍率     | Reduction Ratio  | 0.188x         |
| 最大像面尺寸 | Max Image Circle | 2/3"           |
| 通光孔径   | FNo.             | F6.8-F40       |
| 物方数值孔径 | Object NA        | 0.0138         |
| 工作距离   | WD               | 167            |
| 视场角    | FOV(H*V*D)       | 46.8×35.2×58.5 |
| TV 畸变  | Distortion(TV)   | <0.014%        |
| 远心度    | Telecentricity   | 0.08°          |
| 镜头总长   | TTL              | 411.75         |
| 接口     | Mount            | C Mount        |
| 物方分辨率  | Resolution       | 10.6μ          |



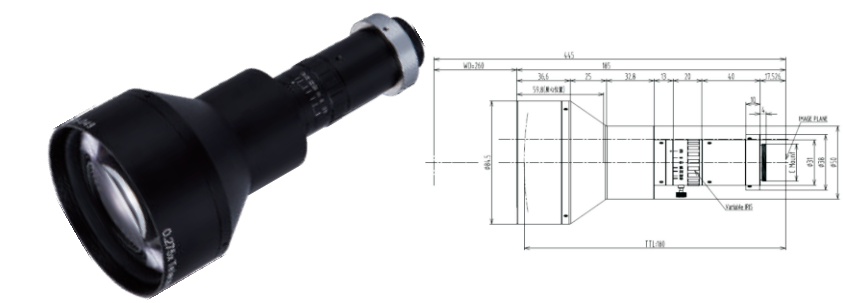
| 型号     | Model No         | MV0502A        |
|--------|------------------|----------------|
| 倍率     | Reduction Ratio  | 0.22x          |
| 最大像面尺寸 | Max Image Circle | 2/3"           |
| 通光孔径   | FNo.             | F6.8-F40       |
| 物方数值孔径 | Object NA        | 0.015          |
| 工作距离   | WD               | 167            |
| 视场角    | FOV(H*V*D)       | 40.06×30.04×50 |
| TV 畸变  | Distortion(TV)   | <0.03%         |
| 远心度    | Telecentricity   | 0.08°          |
| 镜头总长   | TTL              | 390.63         |
| 接口     | Mount            | C Mount        |
| 物方分辨率  | Resolution       | 18μ            |



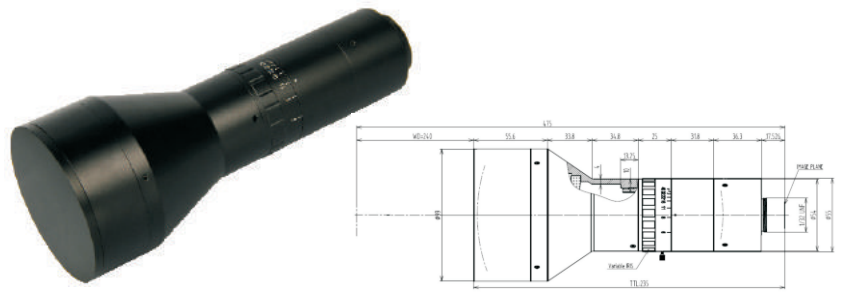
| 型号     | Model No         | MV0503A        |
|--------|------------------|----------------|
| 倍率     | Reduction Ratio  | 0.367x         |
| 最大像面尺寸 | Max Image Circle | 4/3"           |
| 通光孔径   | FNo.             | 5.9            |
| 物方数值孔径 | Object NA        | 0.0167         |
| 工作距离   | WD               | 184.4          |
| 视场角    | FOV(H*V*D)       | 30.7×30.7×43.4 |
| TV 畸变  | Distortion(TV)   | <0.1%          |
| 远心度    | Telecentricity   | 0.08°          |
| 镜头总长   | TTL              | 429.2          |
| 接口     | Mount            | C Mount        |
| 物方分辨率  | Resolution       | 18μ            |



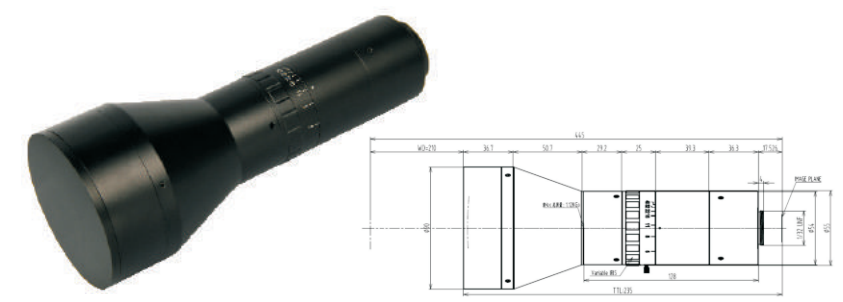
| 型号     | Model No         | MV0527B           |
|--------|------------------|-------------------|
| 倍率     | Reduction Ratio  | 0.275×            |
| 最大像面尺寸 | Max Image Circle | 1                 |
| 通光孔径   | FNo.             | F6.8-F40          |
| 物方数值孔径 | Object NA        | 0.022             |
| 工作距离   | WD               | 260               |
| 视场角    | FOV(H*V*D)       | 58.04×46.43×34.82 |
| TV畸变   | Distortion(TV)   | <0.1%             |
| 远心度    | Telecentricity   |                   |
| 镜头总长   | TTL              | 180               |
| 接口     | Mount            | C Mount           |
| 分辨率    | Resolution       | 5.5μ              |



| 型号     | Model No         | TC1203C          |
|--------|------------------|------------------|
| 倍率     | Reduction Ratio  | 0.367×           |
| 最大像面尺寸 | Max Image Circle | Φ28.2            |
| 通光孔径   | FNo.             | F6.0-40          |
| 物方数值孔径 | Object NA        | 0.03             |
| 工作距离   | WD               | 240              |
| 视场角    | FOV(H*V*D)       | 76.9×61.52×46.14 |
| TV畸变   | Distortion(TV)   | <-0.062%         |
| 远心度    | Telecentricity   |                  |
| 镜头总长   | TTL              | 235              |
| 接口     | Mount            | M42×P1/C Mount   |
| 分辨率    | Resolution       | 5.5μ             |

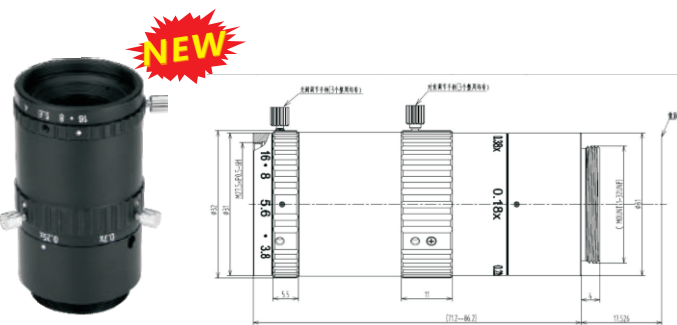


| 型号     | Model No         | TC1205C           |
|--------|------------------|-------------------|
| 倍率     | Reduction Ratio  | 0.42×             |
| 最大像面尺寸 | Max Image Circle | Φ28.7             |
| 通光孔径   | FNo.             | F6.0-40           |
| 物方数值孔径 | Object NA        | 0.035             |
| 工作距离   | WD               | 210               |
| 视场角    | FOV(H*V*D)       | 67.14×53.57×40.23 |
| TV畸变   | Distortion(TV)   | <0.05%            |
| 远心度    | Telecentricity   |                   |
| 镜头总长   | TTL              | 235               |
| 接口     | Mount            | M42×P1/C Mount    |
| 分辨率    | Resolution       | 5.5μ              |

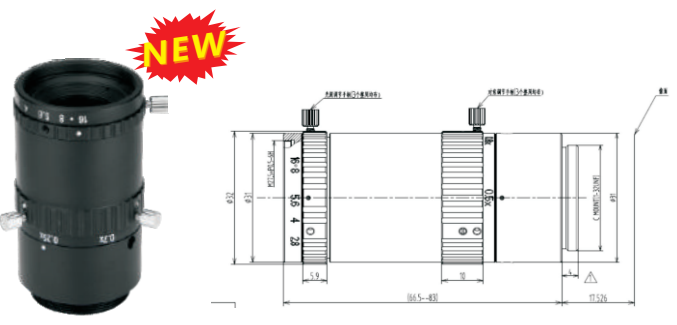


# 微距镜头 Marco lens

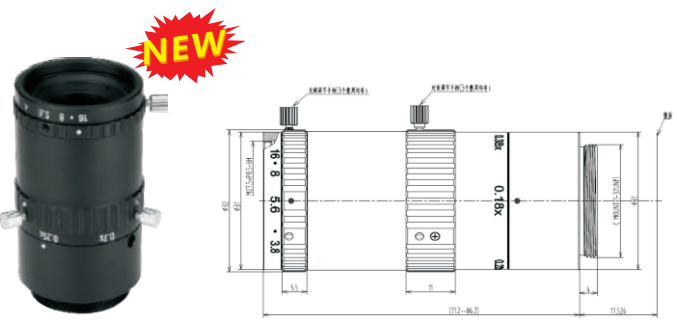
| 型号               |                       | Model No          |      |         |      | ML3510A   |      |         |  |  |  |
|------------------|-----------------------|-------------------|------|---------|------|-----------|------|---------|--|--|--|
| 焦距               |                       | EFL               |      |         |      | 35        |      |         |  |  |  |
| 通光孔径             |                       | FNo.              |      |         |      | 2.8-16    |      |         |  |  |  |
| 法兰长度             |                       | Flange back       |      |         |      | 17.526    |      |         |  |  |  |
| 接口               |                       | Mount             |      |         |      | C Mount   |      |         |  |  |  |
| 畸变               |                       | Distortion ( TV ) |      |         |      | <0.05%    |      |         |  |  |  |
| 工作距离             |                       | 光学畸变              |      |         |      |           |      | FOV(mm) |  |  |  |
| Working Distance | Optical Magnification | 11"(Φ176)         |      | 1"(Φ16) |      | 2/3"(Φ11) |      |         |  |  |  |
|                  |                       | H                 | V    | H       | V    | H         | V    |         |  |  |  |
| 59               | -0.7×                 | 20.1              | 15   | 18.2    | 13.7 | 12.6      | 9.5  |         |  |  |  |
| 78               | -0.5×                 | 28.1              | 21.1 | 25.6    | 19.2 | 17.6      | 13.3 |         |  |  |  |
| 150              | -0.25×                | 56.3              | 42.2 | 55.6    | 41.7 | 38.6      | 28.9 |         |  |  |  |



| 型号               |                       | Model No  |      |         |      | ML5010A   |      |  |  |
|------------------|-----------------------|-----------|------|---------|------|-----------|------|--|--|
| 焦距               | EFL                   | 50        |      |         |      |           |      |  |  |
| 通光孔径             | FNo.                  | 2.8-16    |      |         |      |           |      |  |  |
| 法兰长度             | Flange back           | 17.526    |      |         |      |           |      |  |  |
| 接口               | Mount                 | C Mount   |      |         |      |           |      |  |  |
| 畸变               | Distortion ( TV )     | <0.05%    |      |         |      |           |      |  |  |
| 工作距离             | 光学畸变                  |           |      | FOV(mm) |      |           |      |  |  |
| Working Distance | Optical Magnification | 11"(Φ176) |      | 1"(Φ16) |      | 2/3"(Φ11) |      |  |  |
|                  |                       | H         | V    | H       | V    | H         | V    |  |  |
| 95.4             | -0.8×                 | 17.5      | 13   | 15.9    | 11.9 | 11        | 8.2  |  |  |
| 109.4            | -0.65×                | 21.5      | 16.1 | 19.6    | 14.7 | 13.6      | 10.2 |  |  |
| 132.4            | -0.5×                 | 28        | 21   | 25.4    | 19   | 17.6      | 13.2 |  |  |



| 型号               |                       | Model No  |       | ML7510A |       |           |       |  |  |
|------------------|-----------------------|-----------|-------|---------|-------|-----------|-------|--|--|
| 焦距               | EFL                   |           |       | 75      |       |           |       |  |  |
| 通光孔径             | FNo.                  |           |       | 3.8-16  |       |           |       |  |  |
| 法兰长度             | Flange back           |           |       | 17.526  |       |           |       |  |  |
| 接口               | Mount                 |           |       | C Mount |       |           |       |  |  |
| 畸变               | Distortion ( TV )     |           |       | <0.05%  |       |           |       |  |  |
| 工作距离             | 光学畸变                  |           |       | FOV(mm) |       |           |       |  |  |
| Working Distance | Optical Magnification | 11"(Φ176) |       | 1"(Φ16) |       | 2/3"(Φ11) |       |  |  |
|                  |                       | H         | V     | H       | V     | H         | V     |  |  |
| 257              | -0.38×                | 37.05     | 27.78 | 33.68   | 25.26 | 23.15     | 17.36 |  |  |
| 357              | -0.25×                | 56.32     | 42.24 | 51.2    | 38.4  | 35.2      | 26.4  |  |  |
| 471              | -0.18×                | 78.22     | 58.66 | 71.11   | 53.33 | 48.88     | 36.66 |  |  |



## 5百万像素低畸变工业镜头

| 型号    | Model No                                        |   | FS0305A         |                 |
|-------|-------------------------------------------------|---|-----------------|-----------------|
| 焦距    | EFL                                             |   | 3.37            |                 |
| 通光孔径  | FNo.                                            |   | 2.8             |                 |
| 最大像面  | Image Size                                      |   | 1/2"(8×6.4×4.8) | 1/3"(6×4.8×3.2) |
| 角度    | Angle                                           | H | 86°±5°          | 70°±5°          |
|       |                                                 | V | 70°±5°          | 50°±5°          |
|       |                                                 | D | 100°±5°         | 82°±5°          |
| 物高    | Object Dimension at<br>M.O.D<br>(1/1.2",WD=600) | H | 581.8           |                 |
|       |                                                 | V | 436.4           |                 |
|       |                                                 | D | 728             |                 |
| 畸变    | Distortion (TV)                                 |   | <1%             | <0.6%           |
| 镜头总长  | TTL                                             |   | 23.7~24.3mm     |                 |
| 物方分辨率 | Resolution                                      |   | 5M              |                 |
| 接口    | Mount                                           |   | M12×P0.5        |                 |



| 型号    | Model No                                        |   | FS0605A               |                 |
|-------|-------------------------------------------------|---|-----------------------|-----------------|
| 焦距    | EFL                                             |   | 6                     |                 |
| 通光孔径  | FNO.                                            |   | 2.8                   |                 |
| 最大像面  | Image Size                                      |   | 1/1.8"(8.95×7.2×5.32) | 1/3"(6×4.8×3.2) |
| 角度    | Angle                                           | H | 60.6°±5°              | 42.4°±5°        |
|       |                                                 | V | 46.6°±5°              | 32.4°±5°        |
|       |                                                 | D | 72°±5°                | 51.8°±5°        |
| 物高    | Object Dimension at<br>M.O.D<br>(1/1.8",WD=600) | H | 360.5                 |                 |
|       |                                                 | V | 270.4                 |                 |
|       |                                                 | D | 450.7                 |                 |
| 畸变    | Distortion (TV)                                 |   | <0.5%                 | <0.4%           |
| 镜头总长  | TTL                                             |   | 28.4~28.9mm           |                 |
| 物方分辨率 | Resolution                                      |   | 5M                    |                 |
| 接口    | Mount                                           |   | M12×P0.5              |                 |



| 型号    |                                                 | Model No |                        | FS0805A          |  |
|-------|-------------------------------------------------|----------|------------------------|------------------|--|
| 焦距    | EFL                                             |          | 8                      |                  |  |
| 通光孔径  | FNo.                                            |          | 2.8                    |                  |  |
| 最大像面  | Image Size                                      |          | 1/1.8" (8.95×7.2×5.32) | 1/3" (6×4.8×3.2) |  |
| 角度    | Angle                                           | H        | 47°±5°                 | 32.3°±5°         |  |
|       |                                                 | V        | 35.6°±5°               | 24.6°±5°         |  |
|       |                                                 | D        | 56.8°±5°               | 39.8°±5°         |  |
| 物高    | Object Dimension at<br>M.O.D<br>(1/1.8",WD=600) | H        | 354.2                  |                  |  |
|       |                                                 | V        | 265.6                  |                  |  |
|       |                                                 | D        | 452.4                  |                  |  |
| 畸变    | Distortion (TV)                                 |          | <0.3%                  | <0.2%            |  |
| 镜头总长  | TTL                                             |          | 24.9~25.5mm            |                  |  |
| 物方分辨率 | Resolution                                      |          | 5M                     |                  |  |
| 接口    | Mount                                           |          | M12×P0.5               |                  |  |



| 型号    |                                                 | Model No |                        | FS1205A          |       |
|-------|-------------------------------------------------|----------|------------------------|------------------|-------|
| 焦距    | EFL                                             |          | 12                     |                  |       |
| 通光孔径  | FNo.                                            |          | 2.8                    |                  |       |
| 最大像面  | Image Size                                      |          | 1/1.8" (8.95×7.2×5.32) | 1/3" (6×4.8×3.2) |       |
| 角度    | Angle                                           | H        | 32.8°±5°               | 22.2°±5°         |       |
|       |                                                 | V        | 24.5°±5°               | 16.7°±5°         |       |
|       |                                                 | D        | 40.5°±5°               | 27.5°±5°         |       |
| 物高    | Object Dimension at<br>M.O.D<br>(1/1.8",WD=600) | H        | 300.1                  |                  |       |
|       |                                                 | V        | 225.1                  |                  |       |
|       |                                                 | D        | 375.2                  |                  |       |
| 畸变    | Distortion (TV)                                 |          | <0.2%                  |                  | <0.1% |
| 镜头总长  | TTL                                             |          | 25.4~26.9mm            |                  |       |
| 物方分辨率 | Resolution                                      |          | 5M                     |                  |       |
| 接口    | Mount                                           |          | M12×P0.5               |                  |       |



| 型号    |                                                 | Model No |                        | FS1605A          |  |
|-------|-------------------------------------------------|----------|------------------------|------------------|--|
| 焦距    | EFL                                             |          | 16                     |                  |  |
| 通光孔径  | FNo.                                            |          | 2.8                    |                  |  |
| 最大像面  | Image Size                                      |          | 1/1.8" (8.95×7.2×5.32) | 1/3" (6×4.8×3.2) |  |
| 角度    | Angle                                           | H        | 24.4°±5°               | 17.1°±5°         |  |
|       |                                                 | V        | 18.4°±5°               | 12.3°±5°         |  |
|       |                                                 | D        | 30.3°±5°               | 20.4°±5°         |  |
| 物高    | Object Dimension at<br>M.O.D<br>(1/1.8",WD=600) | H        | 218.8                  |                  |  |
|       |                                                 | V        | 164.1                  |                  |  |
|       |                                                 | D        | 273.4                  |                  |  |
| 畸变    | Distortion (TV)                                 |          | <0.1%                  |                  |  |
| 镜头总长  | TTL                                             |          | 19.3~22.2mm            |                  |  |
| 物方分辨率 | Resolution                                      |          | 5M                     |                  |  |
| 接口    | Mount                                           |          | M12×P0.5               |                  |  |



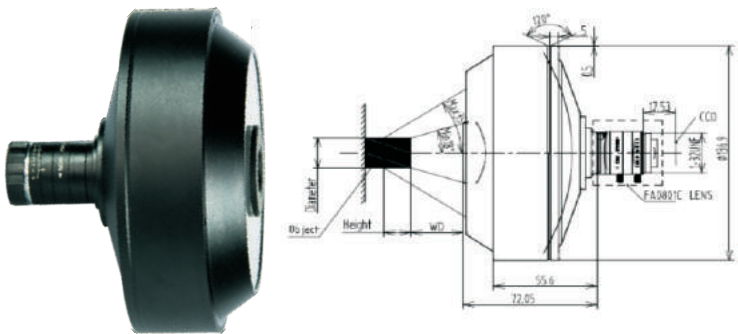
| 型号    |                                                 | Model No |                        | FS2505A          |  |
|-------|-------------------------------------------------|----------|------------------------|------------------|--|
| 焦距    | EFL                                             |          | 25                     |                  |  |
| 通光孔径  | FNo.                                            |          | 2.8                    |                  |  |
| 最大像面  | Image Size                                      |          | 1/1.8" (8.95×7.2×5.32) | 1/3" (6×4.8×3.2) |  |
| 角度    | Angle                                           | H        | 15.6°±5°               | 10.5°±5°         |  |
|       |                                                 | V        | 11.5°±5°               | 7.8°±5°          |  |
|       |                                                 | D        | 19.5°±5°               | 13.1°±5°         |  |
| 物高    | Object Dimension at<br>M.O.D<br>(1/1.8",WD=600) | H        | 166.9                  |                  |  |
|       |                                                 | V        | 125.2                  |                  |  |
|       |                                                 | D        | 208.7                  |                  |  |
| 畸变    | Distortion (TV)                                 |          | <0.05%                 |                  |  |
| 镜头总长  | TTL                                             |          | 26.2~29.3mm            |                  |  |
| 物方分辨率 | Resolution                                      |          | 5M                     |                  |  |
| 接口    | Mount                                           |          | M12×P0.5               |                  |  |



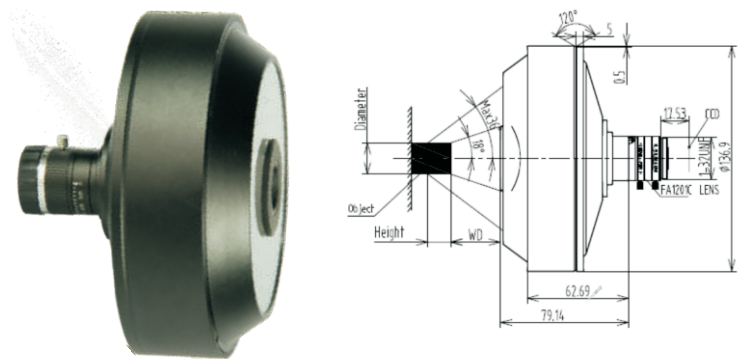
# 360°成像系统

## Fit for 360°imagine system

| 型号           |                  | Model No | RF3601A |
|--------------|------------------|----------|---------|
| 芯片           | Detector Type    |          | 1/3"    |
| 最大像面         | Image Size       |          | 3.6     |
| 工作距离         | working Distance |          | 19-46.2 |
| 通光孔径         | FNo.             |          | 6-16    |
| 测量物直径        | 测量高度             | 工作距离     | 通光孔径    |
| Diameter(mm) | Height(mm)       | WD(mm)   | FNo.    |
| 7.5          | 4.6              | 46.2     | 16      |
| 10           | 6.8              | 42.2     | 12      |
| 15           | 10.9             | 34.5     | 10      |
| 20           | 15.3             | 26.9     | 8       |
| 25           | 19.54            | 19       | 6       |



| 型号           |                  | Model No | RF3602A |
|--------------|------------------|----------|---------|
| 芯片           | Detector Type    |          | 1/1.8"  |
| 最大像面         | Image Size       |          | 5.32    |
| 工作距离         | working Distance |          | 9-45.4  |
| 通光孔径         | FNo.             |          | 8-16    |
| 测量物直径        | 测量高度             | 工作距离     | 通光孔径    |
| Diameter(mm) | Height(mm)       | WD(mm)   | FNo.    |
| 7.5          | 5.3              | 45.4     | 16      |
| 10           | 7.7              | 41.5     | 16      |
| 15           | 11.86            | 33.8     | 12      |
| 20           | 16.5             | 26.2     | 12      |
| 25           | 20.7             | 18.5     | 10      |
| 30           | 25               | 9        | 8       |



| 型号           |                  | Model No | RF3603A |
|--------------|------------------|----------|---------|
| 芯片           | Detector Type    |          | 2/3"    |
| 最大像面         | Image Size       |          | 6.6     |
| 工作距离         | working Distance |          | 14-48.2 |
| 通光孔径         | FNo.             |          | 8-16    |
| 测量物直径        | 测量高度             | 工作距离     | 通光孔径    |
| Diameter(mm) | Height(mm)       | WD(mm)   | FNo.    |
| 7.5          | 4                | 48.2     | 16      |
| 10           | 6.3              | 44.4     | 16      |
| 15           | 10.6             | 36.8     | 12      |
| 20           | 14.6             | 29.2     | 12      |
| 25           | 19.2             | 21.6     | 10      |
| 30           | 23.4             | 14       | 8       |

