型号 Model：JOS812003524A 35mm

产品名称 Product Name (CN)：JOS812003524A 35mm 电动工业镜头

Product Name (EN)：JOS812003524A 35mm Motorized Industrial Lens

产品特点 Features

80–1000mm 电控对焦 + 电动光圈，支持 IPRAS 被动自动聚焦与 ROI 连续追焦，USB/RS-485 双通讯可选，闭环编码精准定位，1.2" 靶面畸变低至 0.06%，全视场相对照度≥80%，适配 2500 万像素 C-Mount 工业相机——为动态工件检测打造的高端智能电控镜头 。
80–1000 mm motorized focus with motorized iris, IPRAS passive auto-focus and ROI continuous tracking, selectable USB/RS-485 communication, closed-loop encoder for precise and repeatable positioning, <0.06% distortion on 1.2" format, relative illumination ≥80% across full field, compatible with 25MP C-Mount industrial cameras — a premium intelligent motorized lens engineered for dynamic workpiece inspection.

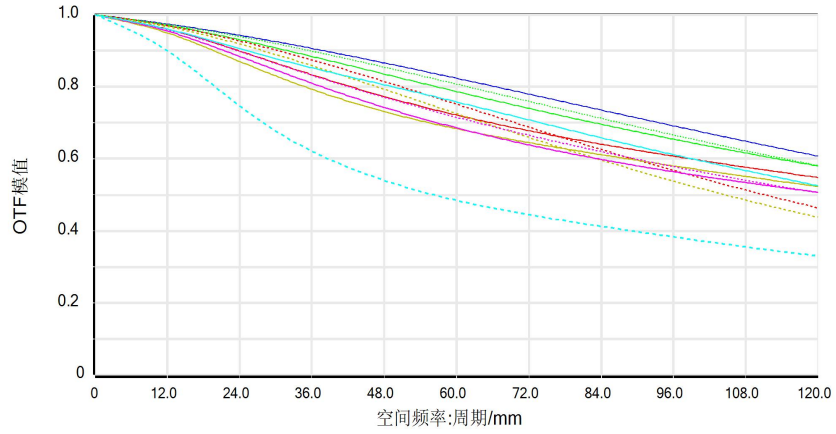
光学参数 Optical Specification

参数项 Item (CN)	Item (EN)	规格 Specification (CN)	Specification (EN)
焦距	Focal Length	35mm	35mm
像面尺寸	Image Format	1.2"(φ19.3mm)	1.2"(φ19.3mm)
分辨率	Resolution	25MP	25MP
接口	Lens Mount	C	C
工作范围 - 光圈	Working Range - Iris	F2.4-F16	F2.4-F16
工作范围 - 聚焦	Working Range - Focus	80mm ~ 1000mm	80mm ~ 1000mm
控制 - 光圈	Control - Iris	电动	电动
控制 - 聚焦	Control - Focus	电动	电动
视场角 - 对角 (1.2")	Angle of View - Diagonal (1.2")	29.8°	29.8°
视场角 - 水平 (1.2")	Angle of View - Horizontal (1.2")	24°	24°
视场角 - 垂直 (1.2")	Angle of View - Vertical 1.2")	18.5°	18.5°
视场角 - 对角 (1/1.8")	Angle of View - Diagonal (1/1.8")	24°	24°
视场角 - 水平 (1/1.8")	Angle of View - Horizontal (1/1.8")	20°	20°
视场角 - 垂直 (1/1.8")	Angle of View - Vertical (1/1.8")	14.8°	14.8°
畸变(1.2")	Distortion(1.2")	0.06%	0.06%
全视场相对照度	Full-field Relative Illumination	≥80%	≥80%
机械后焦	Mechanical Back Focal Length	12.67 mm	12.67 mm
滤片尺寸	Filter Thread	M46×0.5	M46×0.5
控制接口	Control Interface	USB / RS- 485	USB / RS- 485
工作温度	Operating Temperature	-20℃~+70℃	-20℃~+70℃
外观尺寸	Dimensions	65 × 82 mm	65 × 82 mm
重量（含线）	Weight (incl. cable)	327g	327g
通讯线长度	Cable Length	1500mm	1500mm

景深 & 工作距离放大倍率对应表 Depth of Field & Working Distance / Magnification Table

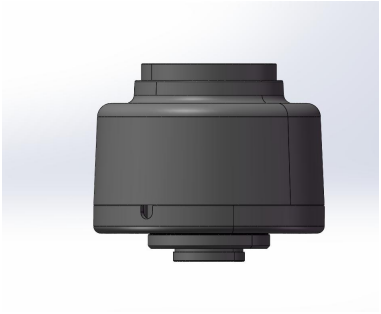
对焦距离 WD (mm) Focus Distance WD (mm)	光学倍率 β Optical Mag. β	参考对焦编码位置 Ref. Focus Encoder Pos.
80	0.4141	参考值 0 Ref. Value 0
200	0.1729	参考值 2200 Ref. Value 2200
500	0.0705	参考值 5800 Ref. Value 5800
1000	0.0348	参考值 10000 Ref. Value 10000

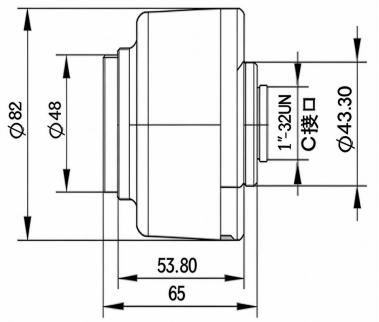
MTF 曲线/MTF Curve



复色光衍射MTF	
2026/10/9 数据 0.4360 到 0.6563 µm. 面: 像面 图例对应于视场位置	Zemax Zemax OpticStudio 19.4 35mmF2.4-2.zmx 3的结构3

机械外形尺寸 Mechanical Dimensions





关键尺寸摘要（单位 mm）Key Dimensions Summary (Unit: mm)

尺寸项目(CN)	Dimension Item(EN)	数值 (CN)	Value (EN)
镜头最大外径	Max. Lens Outer Diameter	φ82	φ82
镜头总长度	Total lens length	65	65
相机端接口螺纹	Camera-side interface thread	1"-32UN，外径 φ43.30	1"-32UN, with Φ43.30 outer dia.

电气说明 Electrical Specifications

1. 调焦单元：内置两组独立闭环步进电机；一组负责对焦调焦，一组负责光圈调节。
Focus unit: two independent closed-loop stepper motors — one for focusing, one for aperture adjustment.

2. 控制接口：USB / RS485 双接口；标配线缆长度 1500mm。
Control interface: dual USB / RS485 interfaces; standard cable length 1500 mm.

3. 驱动类型：1）上位机下发指令，设置对焦编码、光圈编码，实现手动对焦与光圈调节；2）对接 IPRAS 无序被动聚焦系统，实现一键自动聚焦、ROI 区域连续自动聚焦。
Control modes: 1) the host computer sends commands that set the focus and aperture encoder positions for manual focusing and aperture adjustment; 2) integration with the IPRAS passive autofocus system for one-shot focusing and continuous autofocus within a selected ROI.

4. 通讯参数：波特率等参数参照原厂通讯协议文档。
Communication parameters: baud rate and other settings are specified in the original communication protocol document.

5. 供电：由 USB 或 RS485 驱动板供电；整机含线缆重量 327g。
Power supply: powered from a USB or RS485 driver board; total weight including cable 327 g.