

型号 Model: JOS823002520A 25mm

产品名称 Product Name (CN): JOS823002520A 25mm 电动工业镜头

Product Name (EN): JOS823002520A 25mm Motorized Industrial Lens

产品特点 Features

80–1000mm 电控调焦，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，2/3" 靶面畸变 < 0.1%，适配 1000 万像素 C-Mount 工业相机——为动态工件检测打造的智能电控远心镜头。

80–1000 mm motorized focus with IPRAS passive auto-focus and ROI continuous tracking, selectable USB/RS-485 communication, closed-loop encoder for precise and repeatable positioning, <0.1% distortion on 2/3" format, compatible with 10MP C-Mount industrial cameras — an intelligent motorized telecentric lens engineered for dynamic workpiece inspection.

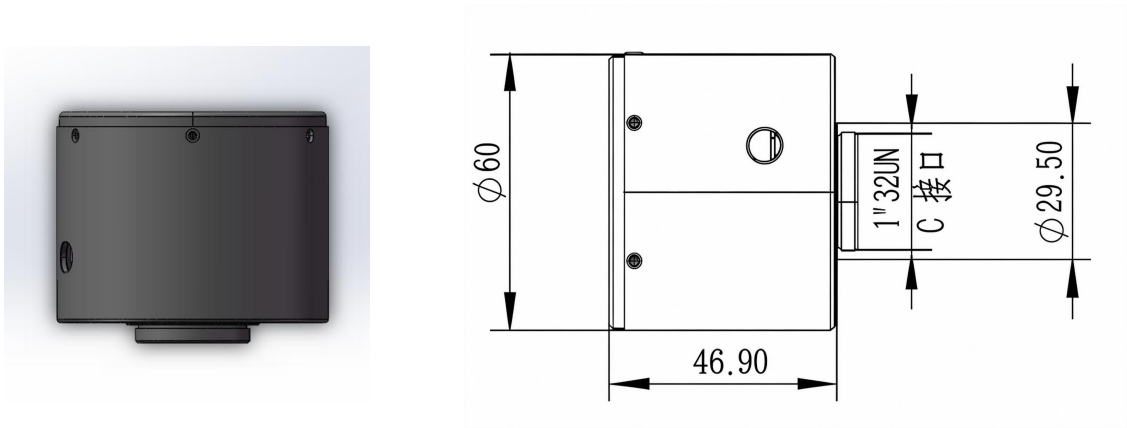
光学参数 Optical Specification

参数项 Item (CN)	Item (EN)	规格 Specification (CN)	Specification (EN)
焦距	Focal Length	25mm	25mm
像面尺寸	Image Format	2/3"(φ11mm)	2/3"(φ11mm)
分辨率	Resolution	10MP	10MP
接口	Lens Mount	C	C
工作范围 - 光圈	Working Range - Iris	F2.0	F2.0
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 (2/3")	Angle of View - Diagonal (2/3")	23.0°	23.0°
视场角 - 水平 (2/3")	Angle of View - Horizontal (2/3")	18.7°	18.7°
视场角 - 垂直 (2/3")	Angle of View - Vertical (2/3")	14.0°	14.0°
视场角 - 对角 (1/1.8")	Angle of View - Diagonal (1/1.8")	-	-
视场角 - 水平 (1/1.8")	Angle of View - Horizontal (1/1.8")	14.8°	14.8°
视场角 - 垂直 (1/1.8")	Angle of View - Vertical (1/1.8")	11.1°	11.1°
畸变(2/3")	Distortion(2/3")	<0.1%	<0.1%
机械后焦	Mechanical Back Focal Length	13.5-19.45 mm	13.5-19.45 mm
滤片尺寸	Filter Thread	M27×0.5	M27×0.5
控制接口	Control Interface	USB / RS- 485	USB / RS- 485
工作温度	Operating Temperature	-20℃~+60℃	-20℃~+60℃
外观尺寸	Dimensions	49.6 × 60 mm	49.6 × 60 mm
重量 (含线)	Weight (incl. cable)	202g	202g
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	0.3348	参考值 0 Ref. Value 0
200	0.1289	参考值 2400 Ref. Value 2400
500	0.0521	参考值 6000 Ref. Value 6000
1000	0.0263	参考值 10000 Ref. Value 10000

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	Φ60	Φ60
镜头主体长度	Lens barrel length	46.9	46.9
相机端接口螺纹	Camera-side interface thread	1"-32UN, 配合 Φ29.50 外径	1"-32UN, with Φ29.50 outer dia.

电气说明 Electrical Specifications

1. 调焦单元：内置闭环步进电机对焦机构。
Focus unit: built-in closed-loop stepper-motor focus mechanism.
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) 上位机下发串口指令，设置目标编码位置实现手动对焦；2) 对接 IPRAS 无源被动聚焦系统，实现一键自动聚焦、ROI 区域连续自动聚焦。
Control modes: 1) the host computer sends serial commands and sets a target encoder position for manual focusing; 2) integration with the IPRAS passive autofocus system for one-shot focusing and continuous autofocus within a selected ROI.
4. 通讯参数：波特率等参数参考原厂通讯协议文档。
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 202g。
Power supply: powered from a USB or RS485 driver board; total weight including cable 202 g.