

型号 Model: JOS823001620A 16mm

产品名称 Product Name (CN): JOS823001620A 16mm 电动工业镜头

Product Name (EN): JOS823001620A 16mm Motorized Industrial Lens

产品特点 Features

70mm–1000mm 宽物距电控调焦，支持对接 IPRAS 被动聚焦实现一键聚焦与 ROI 连续追焦，USB / RS485 双通讯可选、电机闭环编码可重复定位，2/3" 靶面畸变小于 0.1% 并适配 10MP 高像素，一体化 C-Mount 设计配合工业宽温，满足长时间连续作业需求。

Electronically controlled focus across a wide 70mm–1000mm working distance, with IPRAS passive autofocus integration for one-click focusing and continuous ROI tracking, selectable USB / RS485 communication, closed-loop motor encoding for repeatable positioning, under 0.1% distortion on a 2/3" format supporting 10MP imaging, and an integrated C-Mount design built for reliable long-hour industrial operation.

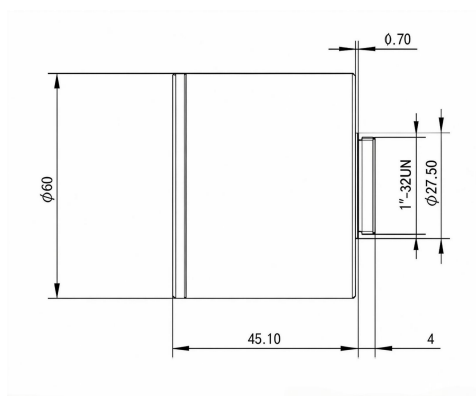
光学参数 Optical Specification

参数项 Item (CN)	Item (EN)	规格 Specification (CN)	Specification (EN)
焦距	Focal Length	16mm	16mm
像面尺寸	Image Format	2/3"(φ11mm)	2/3"(φ11mm)
分辨率	Resolution	10MP	10 MP
接口	Lens Mount	C	C-mount
工作范围 - 光圈	Working Range - Iris	F2.0	F2.0
工作范围 - 聚焦	Working Range - Focus	70mm - 1000mm	70 mm - 1000 mm
控制 - 光圈	Control - Iris	电动	Motorized
控制 - 聚焦	Control - Focus	电动	Motorized
视场角 - 对角 (2/3")	Angle of View - Diagonal (2/3")	38.2°	38.2°
视场角 - 水平 (2/3")	Angle of View - Horizontal (2/3")	29.6°	29.6°
视场角 - 垂直 (2/3")	Angle of View - Vertical (2/3")	24.2°	24.2°
视场角 - 对角 (1/1.8")	Angle of View - Diagonal (1/1.8")	30.9°	30.9°
视场角 - 水平 (1/1.8")	Angle of View - Horizontal (1/1.8")	25.2°	25.2°
视场角 - 垂直 (1/1.8")	Angle of View - Vertical (1/1.8")	17.0°	17.0°
畸变(2/3")	Distortion(2/3")	<0.1%	<0.1%
机械后焦	Mechanical Back Focal Length	13.52mm	13.52 mm
滤片尺寸	Filter Thread	M27×0.5	M27 × 0.5
控制接口	Control Interface	USB / RS485	USB / RS485
工作温度	Operating Temperature	-20°C~+70°C	-20°C to+70°C
外观尺寸	Dimensions	45.1x60mm	45.1 × 60 mm
重量 (含线)	Weight (incl. cable)	206g	206 g
通讯线长度	Cable Length	1500mm	1500 mm

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.
70	0.2123	参考值 0 Ref. Value 0
200	0.0787	参考值 2500 Ref. Value 2500
500	0.0322	参考值 6000 Ref. Value 6000
1000	0.0162	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	Maximum outer diameter	φ60	φ60
镜头主体长度	Lens barrel length	45.1	45.1
相机端接口螺纹	Camera-side interface thread	1"-32UN, 外径 φ27.50	1"-32UN, OD φ27.50
滤片尺寸	Filter thread	M27×0.5	M27 × 0.5

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 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 206g。

Power supply: powered from a USB or RS485 driver board; total weight including cable 206 g.