

固定式二维扫码器 · 大视野 72° × 64° · 支持无背光屏幕码识读

XL-7160 固定式二维扫码器

XL-7160 Fixed Mount 2D Barcode Reader

640 × 480 CMOS

≥ 3.9 mil

视场角 72° × 64°

运动容差 > 2 m/s

75 g

77.5 × 66 × 45 mm

大视野 · 大景深

Large Field of View

72°(H) × 64°(V) 超广视场角配大视角影像感光器，一次成像覆盖更大面积；手机屏幕码即使在无背光状态下也能稳定识读。

A 72° x 64° field of view with a wide-angle image sensor covers more area per shot, and reads phone screen codes even without backlight.

01

全向识读 1D / 2D

Omni-directional Reading

全向读取各类一维码与二维码：PDF417、MicroPDF417、Data Matrix、MaxiCode、QR Code、MicroQR、Aztec、Hanxin，以及 UPC/EAN/Code 128/39/93/11、Codabar、GS1 DataBar 等。

Omni-directional decoding for 1D and 2D symbologies - PDF417, MicroPDF417, Data Matrix, MaxiCode, QR, MicroQR, Aztec, Hanxin, plus UPC/EAN/Code 128/39/93/11, Codabar and GS1 DataBar.

02

快速集成

Easy Integration

内置 RS232 与 USB 接口，3.3-5 VDC 宽压供电、工作电流仅 200 mA；物体自感应触发，无需额外传感器，多国语言条码信息直传上位机。

Built-in RS232 and USB interfaces, 3.3-5 VDC supply at just 200 mA, object auto-sense triggering without extra sensors, and direct multi-language data transfer.

03

工业级可靠

Industrial Reliability

工作温度 -50°C ~ 85°C、环境光免疫 0-100,000 Lux、可承受 1.5 m 跌落；75 g 紧凑机身，底部模内注塑 M3×4 螺母与 4 mm 沉孔便于固定安装。

Operating range -50°C to 85°C, 0-100,000 Lux ambient light immunity, 1.5 m drop resistance, and a 75 g housing with moulded-in M3x4 nuts and 4 mm counter-bores for fixing.

04



线缆输出 (Cable)



背面安装孔 (Mounting)

应用场景 Applications

闸机、医疗、票务等自助终端与固定工位扫码场景：闸机通行核验、医院自助机与标本识别、影院与车站票务检票、以及产线固定位置条码采集。

Ideal for turnstiles, healthcare and ticketing - gate access verification, hospital self-service kiosks and specimen tracking, cinema and station ticket validation, and fixed-position scanning on production lines.

产品特点 Product Features

- 大视野 72° × 64°
Large 72° x 64° field of view
- 内置 RS232 与 USB
Built-in RS232 and USB
- 多国语言直传
Multi-language data transfer
- -50°C ~ 85°C 宽温
-50°C to 85°C operating range

- 支持无背光屏幕码
Reads screen codes without backlight
- 物体自感应触发
Object auto-sense triggering
- 运动容差 > 2 m/s
Motion tolerance over 2 m/s
- 1.5 米抗跌落
1.5 m drop resistance

性能参数 / SCAN PERFORMANCE

图像传感器 Image sensor	640 (H) × 480 (V) 像素 / pixels
光源 Light source	6500 K LED 照明 Illumination 6500 K LED
视场角 Field of view	72° (H) × 64° (V)
识读精度 Minimum resolution	≥ 3.9 mil
打印对比度 Print contrast	≥ 20% 反射差 20% minimum reflective difference
旋转 / 倾斜 / 偏转 Roll / Pitch / Yaw	360° / ±65° / ±60°
运动容差 Motion tolerance	> 2 m/s
识读景深 Decode ranges	6.88 mil (PDF417): 0–50 mm 10 mil (Data Matrix): 0–50 mm 13 mil (UPCA): 5–110 mm 20 mil (QR): 0–100 mm
二维码 2-D 2-D symbologies	PDF417, MicroPDF417, Data Matrix, MaxiCode, QR Code, MicroQR, Aztec, Hanxin 等
一维码 1-D 1-D symbologies	UPC, EAN, Code 128, Code 39, Code 93, Code 11, Matrix 2 of 5, Codabar, Interleaved 2 of 5, MSI Plessey, GS1 DataBar, China Postal, Korean Postal 等

电气 / 机械 / 环境 / ELECTRICAL & ENVIRONMENT

接口支持 Interfaces	USB、RS232
工作电压 Voltage	3.3 – 5 VDC
工作电流 Current	200 mA
外观尺寸 Dimensions	77.5 × 66 × 45 mm
重量 Weight	75 g
工作温度 Operating temp.	-50°C ~ 85°C
存储温度 Storage temp.	-40°C ~ 70°C
湿度 Humidity	0% ~ 95% (不凝结 / non-condensing)
环境光免疫 Ambient light immunity	0 – 100,000 Lux
抗震性 Shock	可承受 1.5 m 跌落 Withstands 1.5 m drops
安装 Mounting	底部固定螺丝沉孔 4 mm; 模内注塑 M3×4 螺母 4 mm counter-bored fixing holes with moulded-in M3x4 nuts
备注 Notes	性能受条码质量与环境条件影响; 规格如有更改恕不另行通知 Performance depends on barcode quality and ambient conditions; specifications subject to change without notice

外形尺寸与安装 / Dimensions & Mounting

安装方式

Mounting

底部设有固定螺丝沉孔（4 mm）与模内注塑 M3×4 螺母，可直接锁付在闸机、自助机、医疗设备或产线工位上；镜头侧无需额外支架。

The base has 4 mm counter-bored fixing holes with moulded-in M3x4 nuts, so the unit bolts straight onto turnstiles, kiosks, medical devices or production-line fixtures.

接线与触发

Wiring & Triggering

内置 RS232 与 USB 双接口，3.3–5 VDC 供电；支持物体自感应触发，被测物靠近即自动开始识读，无需外接触发开关。

Built-in RS232 and USB with 3.3–5 VDC supply; object auto-sense starts reading as soon as an item approaches - no external trigger switch needed.

窗口与维护

Window & Maintenance

镜头窗口采用耐磨面板，日常用软布擦拭即可；避免粉尘、水汽或强光直射遮挡窗口，以保证长期识读稳定性。

The optical window uses a wear-resistant panel - a soft cloth is enough for daily cleaning. Avoid dust, moisture or direct strong light on the window to keep long-term stability.

环境适应

Environmental Fitness

-50°C ~ 85°C 宽工作温度、0–100,000 Lux 环境光免疫、1.5 m 抗跌落，适应闸机户外侧、冷库医疗与车站票务等复杂现场。

-50°C to 85°C operating range, 0–100,000 Lux ambient light immunity and 1.5 m drop resistance suit outdoor turnstiles, cold-chain medical use and station ticketing areas.

外形尺寸标注 Key Dimensions

项目 / Item	数值 / Value	说明 / Note
总宽度	77.63 mm	Overall width
总深度	66.23 mm	Overall depth
高度	45.40 mm	Overall height
安装孔位置	14.11 mm	孔中心到边缘 Hole centre to edge
安装孔间距	19.90 mm	孔中心间距 Pitch between centres
安装螺母	M3 × 4	模内注塑，底部沉孔 4 mm

