

RJ45 网口直连 · 锌合金 IP54 · 3.3 MIL

XL-5090 网口固定式条码扫描器

XL-5090 Ethernet (RJ45) Fixed-Mount Barcode Scanner

RJ45 网口

1280×800

≥ 3.3 mil

IP54

1.5 m 抗跌落

锌合金

01 RJ45 网口直连

Direct RJ45 Ethernet

自带以太网接口，免除转换模块，布线更简单、传输更稳定。
Built-in Ethernet port removes converter modules for simpler wiring and stable transfer.

02 锌合金一体外壳

Zinc-Alloy Housing

IP54 防尘防水、耐冲击，适合产线与仓储等工业环境。
IP54 dust- and water-resistant die-cast housing for production and warehouse environments.

03 1280×800 高清识读

1280 × 800 HD Imaging

扫描精度 ≥ 3.3 mil，细密与低对比条码也能稳定读出。
3.3 mil precision reads dense and low-contrast codes reliably.

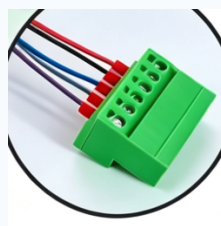
04 1.5 米抗跌落

1.5 m Drop Resistance

并通过 10H@125RPM 运输震动测试，适应粗暴搬运。
Passes 10 H @ 125 RPM transport vibration testing for rough handling.



RJ45 网口 (Ethernet Port)



插拔式接线端子 (Terminal Block)

一根网线接入现有系统 —— RJ45 网口直连以太网，无需串口/USB 转换模块，长距离传输稳定，可直接对接上位机、MES / WMS 系统；现场配插拔式接线端子，接线维护更方便。

Plug into your existing network with a single cable — the RJ45 Ethernet port connects directly to the host, MES / WMS systems with no serial/USB converter, plus a pluggable terminal block for fast field wiring.

应用场景 Application Scenarios

物流分拣、产线追溯、仓储出入库、自助终端、工业自动化等场景；网口版可直接接入现场以太网与 MES / WMS，实现扫码数据实时上传。

Ideal for logistics sorting, production traceability, warehouse in/out, self-service terminals and industrial automation. The Ethernet version plugs into the existing LAN and MES/WMS for real-time data upload.

XL-5090 网口固定式条码扫描器 Ethernet Fixed-Mount Barcode Scanner

产品特点 Product Features

- RJ45 网口直连：**自带以太网接口，免除转换模块
Built-in RJ45 Ethernet port connects straight to LAN / host PC
- 1280×800 高清识读：**扫描精度 ≥ 3.3 mil
1280×800 sensor with ≥ 3.3 mil resolution
- 双状态指示灯：**D7 绿灯网络连接、D6 蓝灯信号传输
Dual LEDs: D7 green for link, D6 blue for data transfer

扫描性能 / SCAN PERFORMANCE

分辨率 Resolution	1280 × 800 像素 1280 × 800 pixels
扫描精度 Min. resolution	≥ 3.3 mil
识别对比度 Print contrast	$\geq 25\%$
扫描角度 Scan angle	倾斜 $\pm 60^\circ$, 偏转 $\pm 60^\circ$, 旋转 360° Pitch $\pm 60^\circ$, Skew $\pm 60^\circ$, Roll 360°
视场角度 Field of view	水平 42° , 垂直 31.5° Horizontal 42° , Vertical 31.5°
环境光照 Ambient light	0 ~ 100,000 LUX
环境光强度 Light immunity	正常办公与工厂照明、阳光直射下均不受影响 Unaffected by office/factory lighting or direct sunlight

物理参数 / PHYSICAL

尺寸 Dimensions	46 × 38 × 25.72 mm
重量 (带包装) Weight (packed)	130 g
材质 Material	锌合金 Zinc alloy
接口支持 Interface	RJ45 网口 RJ45 Ethernet

电气参数 / ELECTRICAL

输入电压 Input voltage	12 V ($\pm 10\%$)
工作电压 Operating voltage	3.3 VDC ($\pm 5\%$)
电流消耗 Current consumption	27 mA
额定功耗 Rated power	200 mW (工作 Active) / 60 mW (待机 Standby)

- 锌合金一体外壳：**IP54 防尘防水，耐冲击
Die-cast zinc alloy housing, IP54 dust & water protection
- 1.5 米抗跌落：**并通过 10H@125RPM 运输震动测试
1.5 m free-fall resistance, 10H@125RPM vibration tested
- 多接口可选：**网口 / RS232 串口 / USB 版本
Ethernet / RS232 / USB versions available

环境参数 / ENVIRONMENTAL

工作温度 Operating temperature	0 ~ +50°C
保存温度 Storage temperature	-40 ~ +70°C
工作湿度 Operating humidity	5 ~ 95% (非凝结 / non-condensing)
保存湿度 Storage humidity	5 ~ 95% (非凝结 / non-condensing)
防摔性 Drop resistance	可承受 1.5 米自由落体跌落 1.5 m free-fall drop
防水防尘 Ingress protection	符合 IP54 标准 IP54 compliant
运输震动测试 Vibration test	10H @ 125 RPM

识读景深 / DEPTH OF FIELD

3 mil Code 39 (3 字符)	3.5 ~ 9.5 cm
4 mil Code 128 (9 字符)	3.0 ~ 11.5 cm / 7.0 ~ 10.5 cm
13 mil UPC (6 字符)	2.0 ~ 28.0 cm / 1.5 ~ 33.0 cm
20 mil Code 39 (1 字符)	2.5 ~ 40.0 cm / 2.5 ~ 56.0 cm
5 mil QR (40 字符)	4.0 ~ 7.5 cm
6.7 mil PDF417 (20 字符)	2.5 ~ 13.5 cm / 4.5 ~ 14.0 cm
10 mil QR (20 字符)	1.0 ~ 15.0 cm / 2.0 ~ 15.0 cm
20 mil QR (20 字符)	1.5 ~ 28.0 cm / 2.0 ~ 34.0 cm

两项数值为不同测试条件下的近 / 远景范围。规格如有更改，恕不另行通知。
Two values denote near / far range under different test conditions.
Specifications subject to change without notice.

识读码制 / SYMBOLOGIES

一维码 1D codes	Code 39, Code 32, Code 93, EAN-13, EAN-8, UPC-A, UPC-E, IATA 2 of 5, Interleaved 2 of 5, Codabar, Code 11, Code 128, Matrix 2 of 5, Straight 2 of 5, MSI/Plessey, GS1 DataBar 等
二维码 2D codes	PDF417, QR, MicroPDF417, Micro QR, Aztec, Data Matrix, Grid Matrix 等

网口接线与状态指示 Ethernet Wiring & Status Indicators

RJ45 网口 / 插拔式接线端子 | 线序与指示灯定义

整机与网口 Product & Ethernet Port



正面扫描窗口 + 橙色按键 + 状态指示灯
Front scan window, trigger button & LEDs



RJ45 网口
RJ45 Ethernet Port

状态指示灯 LED Indicators

- D7 绿灯 Green:** 亮 = 连接正常，灭 = 连接不通
On = link OK, Off = no link
- D6 蓝灯 Blue:** 亮 = 连接正常，闪烁 = 信号传输
On = link OK, Blinking = data transmitting

网口线序说明 Cable Wiring Definition

线色	功能	说明
红色 Red	12V	电源输入 Power input
黑色 Black	GND	地 Ground
蓝色 Blue	电平触发 Level trigger	低电平触发扫描 Low level triggers scanning
紫色 Purple	输出 NG 功能提示 NG output	平时低电平；解码失败或超时输出 3.3V 高电平 Low by default; 3.3 V high on failure or timeout
灰色 Grey	输出解码成功指示 Decode-success output	平时低电平；解码成功输出 3.3V 高电平 Low by default; 3.3 V high on successful decode

接线前请断电操作；线色以实际出货线缆为准，网口版供电为 12V。
Power off before wiring. Wire colours follow the supplied cable; the Ethernet version is powered by 12 V.



插拔式接线端（便于现场接线）
Pluggable terminal block for fast field wiring

网口应用要点 Ethernet Highlights

- 直连以太网：**一根网线接入交换机 / 上位机，无需转换模块
Direct LAN connection - one cable to switch or host, no converter
- 长距离稳定：**适合产线、分拣线等远距离部署场合
Stable over long runs for production and sorting lines
- 系统对接：**扫码结果可直接上传 MES / WMS / ERP
Read results upload straight to MES / WMS / ERP