CMOS 640 × 480 · ≥ 7 MIL · NFC OPTION · BUILT FOR SELF-SERVICE

XL-F21

Embedded 2D Scan Module for Self-Service Equipment



640 × 480 CMOS | Resolution ≥ 7 mil | DOF 0–100 mm | IP54 | 65 × 61.5 × 31 mm · 100 g | 5 V · 200 mA | Wiegand · USB · RS-232

PRODUCT FEATURES

- **Strong decoding** — high-performance embedded processor and a proven core algorithm for accurate, reliable data processing
- **Fast recognition** — quick, accurate barcode reading that reduces operator workload
- **Wide symbology set** — Code 128, EAN-13, EAN-8, Code 39, Code 93 and UPC-A 1D codes, plus QR, GM, Data Matrix, HANXIN and PDF417
- **High reading precision** — professional sensor with a wide depth of field, high sensitivity and a low print-contrast requirement
- **Multiple trigger modes** — command-triggered and automatic scanning
- **Self-service ready** — embedded terminals, ticketing, logistics, finance, transportation and healthcare

PRODUCT SPECIFICATIONS

SCANNING PERFORMANCE

Image Sensor	640 × 480 CMOS
Illumination	Visible LED (white)
Resolution	≥ 7 mil
Depth of Field (DOF)	0–100 mm
Print Contrast Signal (PCS)	≥ 30%
Pitch / Skew / Tilt	±60° / ±60° / 360° At 0° on the other two axes
Ambient Light Immunity	0–100,000 lux
Trigger Mode	Manual / automatic
User Indicators	Buzzer
Configuration	PC online setup / configuration barcode

MECHANICAL

Dimensions	65 × 61.5 × 31 mm
Mounting Holes	44 × 58 mm
Cable Length	1.5 m (optional)
Weight	100 g

ELECTRICAL & INTERFACES

Host System Interfaces	Wiegand, USB virtual COM, USB HID, RS-232
NFC Option	Mifare-compatible cards, ISO/IEC 14443A cards, NFC phones
Input Voltage	5 V
Operating Current	200 mA
Standby Current	30 mA
Peak Current	240 mA
Operating Power	1 W
Standby Power	0.35 W
Power Consumption	1.2 W (max.)

ENVIRONMENTAL & SAFETY

Operating Temperature	−20 °C to +60 °C
Storage Temperature	−40 °C to +80 °C
Humidity	5–95% RH, non-condensing
IP Rating	IP54
Electrical Safety	EN 60950-1
Photobiological Safety	EN 62471:2008
Warranty	2 years

SUPPORTED SYMBOLOGIES

2D	QR Code, Micro QR, PDF417, Micro PDF417, Data Matrix, GM, HANXIN (Chinese-sensible code), and others
1D	Code 128, EAN-13, EAN-8, Code 39, Code 93, UPC-A, and others

Shenzhen Xinlong IoT Technology Co., Ltd. XINLONG IOT

ADDRESS Room 207, Building A, No. 168 Cenxia Road, Fenghuang Community, Fuyong Street, Bao'an District, Shenzhen 518103, China

EMAIL lixuan@xinlongiot.com **WEB** www.xinlongiot.com

Specifications subject to change without notice.