XL-G1 · INDUSTRIAL SCAN ENGINE · 1296 × 816 · DUAL-COLOUR ILLUMINATION · LASER CROSS AIMER

XL-G1

Industrial 1D / 2D Scan Engine



1296 × 816 CMOS | Resolution ≥ 3.3 mil | FOV 48.7° × 28° | 3.3 V ±5% · 140 mA | 30 × 17 × 19.5 mm · 8.4 g | TTL-232 · USB

PRODUCT FEATURES

- **Dual-colour illumination** — white and red light with intelligent switching for faster reads.
- **Strong industrial DPM decoding** — low-contrast, glass, reflective and dot-matrix codes.
- **Megapixel-class sensor** — 1296 × 816 CMOS for industrial, in-line and AI-driven scenes.
- **Dual-core CPU** — faster decoding on demanding production-line tasks.

PRODUCT SPECIFICATIONS

SCANNING PERFORMANCE

Image Sensor	1296 × 816 CMOS
Illumination	White + red LED Intelligent switching
Aimer	Laser cross-hair
Resolution	≥ 3.3 mil
Print Contrast Signal (PCS)	≥ 20%
Pitch / Skew / Tilt	±75° / ±60° / 360°
Field of View (FOV)	48.7° (H) × 28° (V)
Depth of Field (DOF)	Code 128 3.3 mil: 4.5–11 cm Code 128 10.83 mil: 4–20 cm Code 128 20 mil: 6–27 cm QR 20 mil: 6–28 cm
Ambient Light Immunity	0–100,000 lux
Configuration	ImageTool Setup and tuning software

ELECTRICAL & MECHANICAL

Host System Interfaces	TTL-232, USB
Input Voltage	3.3 V ±5%
Operating Current	140 mA @ 3.3 V Typical
Idle Current	58 mA @ 3.3 V
Power Consumption	460 mW Typical, @ 3.3 V
Peak Power	2 W @ 3.3 V
Peak Current	600 mA @ 3.3 V
Dimensions	30 × 17 × 19.5 mm (max.)
Weight	8.4 g
Mounting Holes	M1.6 × 3 threaded insert

ENVIRONMENTAL

Operating Temperature	−20 °C to +50 °C
Storage Temperature	−40 °C to +70 °C
Humidity	5–95% RH, non-condensing
Warranty	2 years

SUPPORTED SYMBOLOGIES

2D	MicroPDF417, PDF417, QR Code, Micro QR, Aztec, Data Matrix, Grid Matrix, and others
1D	Code 32, Code 39, 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, 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.