EMBEDDED IMAGING PLATFORM · AIGATHER DECODING · 2 m/s MOTION TOLERANCE

XL-A60

Embedded Imaging Scan Platform

640 × 480 Image Sensor | Resolution 4 mil | Motion Tolerance 2 m/s | PCS ≥ 15% | 1.2 m drop resistance | Adjustable buzzer tone

AiGather Decoding 01

The patented AiGather software decoding algorithm, paired with a high-performance imaging engine, reads every common 1D and 2D code quickly.

Motion Tolerance & Wide Angles 02

2 m/s motion tolerance with 360° tilt, ±60° pitch and ±60° skew, so codes are captured while the item keeps moving.

Screen & Printed Codes 03

Reads codes on phone screens and on paper, including printed labels with a print contrast signal as low as 15%.

Built for Tough Media 04

Handles damaged, wrinkled and poorly printed labels, with decode LED feedback and a buzzer whose tone and volume are adjustable.





Scan window



Mounting and interfaces

TYPICAL VERTICALS

Used as an embedded scan platform in **self-service kiosks, automated gates and access-control terminals** — the module sits behind the panel, so the operator simply presents the code.

PRODUCT FEATURES

- **AiGather decoding** — patented software algorithm for fast 1D / 2D reading
- **Screen and printed codes** — print contrast signal down to 15%
- **Embedded housing** — 114.5 × 93.5 mm panel cut-out, simple mounting
- **2 m/s motion tolerance** — with ±60° pitch and skew, 360° tilt
- **Tough media** — reads damaged, wrinkled and poorly printed labels
- **Loud buzzer** — adjustable tone and volume; interfaces selectable

READING PERFORMANCE

Image Sensor	640 × 480 CMOS
Illumination	Red LED
Resolution	4 mil (0.102 mm)
Print Contrast Signal (PCS)	≥ 15% Reflectance difference
Motion Tolerance	2 m/s
Pitch / Skew / Tilt	±60° / ±60° / 360°
Ambient Light Immunity	0–100,000 lux Indoor, daylight
User Indicators	Decode LED, buzzer Adjustable tone and volume
Configuration	Setup barcodes / host software

DEPTH OF FIELD (DOF)

Code 128 · 5 mil EAN-13 · 5 mil	0–70 mm 0–70 mm
EAN-13 · 13.34 mil	0–240 mm
PDF417 · 5 / 10 / 15 mil	5–60 / 0–170 / 0–280 mm
Data Matrix · 20 mil	5–80 mm

SUPPORTED SYMBOLOGIES

1D	All standard 1D codes, including GS1 DataBar linear — auto-discriminated and decoded
2D	Aztec Code, Data Matrix, Maxi Code, QR Code, HAN XIN, Micro QR Code
Stacked	GS1 DataBar Expanded Stacked, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Composite, MicroPDF417, PDF417

ELECTRICAL

Host System Interfaces	RS-232, USB HID, USB CDC, HID POS Selectable to customer requirements
Input Voltage	5 V DC ±10% / 500 mA
Operating Current	< 300 mA (nominal)
Standby Current	< 210 mA (nominal)
ESD Protection	8 kV air discharge
Data Transmission	Multi-language output (incl. Chinese) Windows and Linux; prefix and suffix configurable

MECHANICAL

Dimensions	Panel cut-out 114.5 × 93.5 mm
Mounting Holes	108.00 / 70.00 / 65.50 mm Hole diameters Ø5.10 / Ø3.40 mm

ENVIRONMENTAL

Operating Temperature	0 °C to +40 °C
Storage Temperature	−40 °C to +70 °C
Humidity	5–95% RH, non-condensing
Drop Resistance	1.2 m to concrete Repeated drops
Warranty	2 years

HOST INTERFACE

RS-232, USB HID, USB CDC and HID POS, selectable to customer requirements.

MOUNTING

Panel cut-out 114.5 × 93.5 mm; mounting holes at 108.00 / 70.00 / 65.50 mm, Ø5.10 / Ø3.40 mm.

POWER

Single 5 V DC ±10% supply at 500 mA; < 300 mA operating and < 210 mA standby.

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Specifications subject to change without notice.