

XL-3043M

2D Scan Embedded Module

Ultra-wide scanning angle
3mil high precision scanning
Flexible embedding method



1D/2D



Plug and play



Auto



ARM



1280x800 Pixels

Features

- Built-in tempered glass, scratch resistant and enhanced durability.
- High-performance imaging technology.
- Fully self-developed proprietary technology, supporting online firmware upgrade.
- Rich interfaces for compatibility with diverse embedded devices.
- Adjustable audio volume to adapt to varied working environments.
- Ideal for subway turnstiles, parking systems and scenic access control.

Applications



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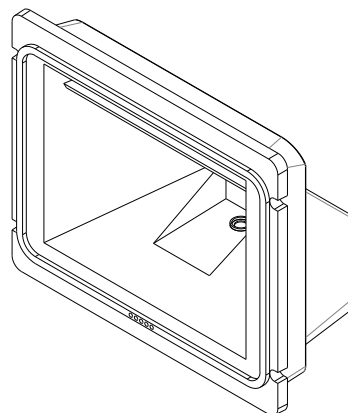


XL-3043M

Technical Parameters

Performance Parameter

Light Source	650nm visible red LED
CPU	32-bit ARM microprocessor
Scan Mode	Automatic scanning
Image Size	1280x800 Pixels
Scanning Speed	60 FPS
Mobile Tolerance	1.5m/s
Mnimum Resolution	≥3mil
Scan Angle	Rotata 360°
View Angle	Deflection 360°, dip 65°, elevation 60°
Depth of Field	5~250mm@(13mil UPC/EAN 100%,PCS=90%)
Decoding Capability	1D: Codabar, Code11, Code39, Code32, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Code93, Code128, GS1-128, UPC-A, UPC-E, EAN 8, EAN 13, GS1 DataBar (RSS14), GS1 DataBar Limited, GS1 DataBar Expanded, etc 2D: PDF417, Micro PDF417, QR Code, Micro QR, Data Matrix, Aztec Code



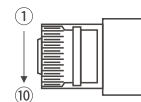
Other Parameters

Size	LxWxH: 143x67.5x119 (mm)
Weight	320g
Case Material	ABS+PC (Flameresistant material)
Input Voltage	DC 5V
Working Current	< 270mA
Stand-by Current	< 160mA
Indicator	Buzzer
Interface	USB-HID, RS-232 (Wire support required), USB-VCP
Cable	Straight 1.8m
Temperature (Operating)	-10°C~50°C
Humidity	5% to 95% (Non-condensing)
Temperature (Storage)	-20°C~60°C
Resistance To Ambient Light	0~5,000Lux (Fluorescent) 0~100,000Lux (Sunlight)

Interface Definition

The 10pin crystal connector supports USB cable and serial cable

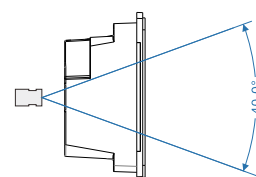
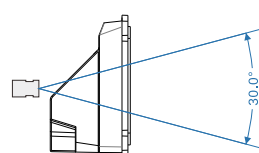
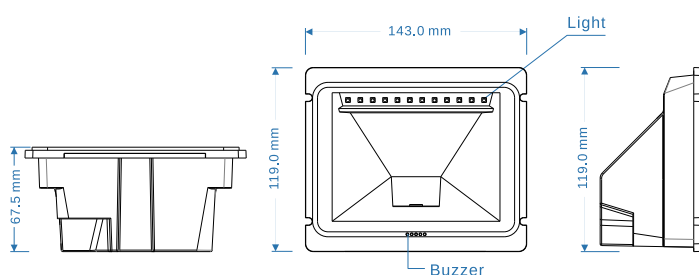
Pin-out	Description	Pin-out	Description
①	NC	⑥	NC
②	TX	⑦	+5V/PC_5V
③	RX	⑧	D+
④	GND	⑨	D-
⑤	NC	⑩	NC



The Depth Of Field Performance

Type	Minimum (mm)	Maximum (mm)
EAN13 3mil	5	60
EAN13 5mil	5	150
EAN13 8mil	5	220
EAN13 13mil	5	250
EAN13 20mil	5	310
EAN13 30mil	10	320
Payment Code	5	930

*XL-3043M-28/07/26B-V1.0.0



Vertical scanning field angle: 30 °

Horizontal scanning field angle: 40 °