

LX200 SERIES · Smart Industrial Code Reader

One-Touch Setup+ / AI Decoding Engine

Flexible Optics · Reliable Decoding · Easy Deployment



OPTICS

Multiple light options
For diverse materials

AI

AI + machine vision
Challenging code reading

120

Up to 120 fps
Global shutter imaging

IP65

Sealed metal housing
For industrial environments

Industrial traceability for new energy, automotive manufacturing, computers, communications and consumer electronics, semiconductors, warehousing and logistics.

Flexible optics for diverse reading conditions

Combine lighting, lenses and focus options for close-range multi-code reading and challenging codes at longer distances.

Three lighting types

Direct · Polarized · Diffuse

Select lighting to suit code materials and surface reflections, improving contrast and image quality.

Four lighting colors

Red · White · Blue · UV

Red is standard. Other colors are optional, depending on configuration and application requirements.

Multiple lens options

6 / 12 / 16 / 25 mm

Manual focus: 6 / 12 / 16 mm.
Autofocus: also available with a 25 mm lens.

Two focus options for easy deployment

Autofocus models

Automatically adjust focus during installation and setup for fast deployment and easy changes to reading tasks.

Manual focus models

A continuously adjustable focus ring enables precise adjustment to suit working distance and code size.

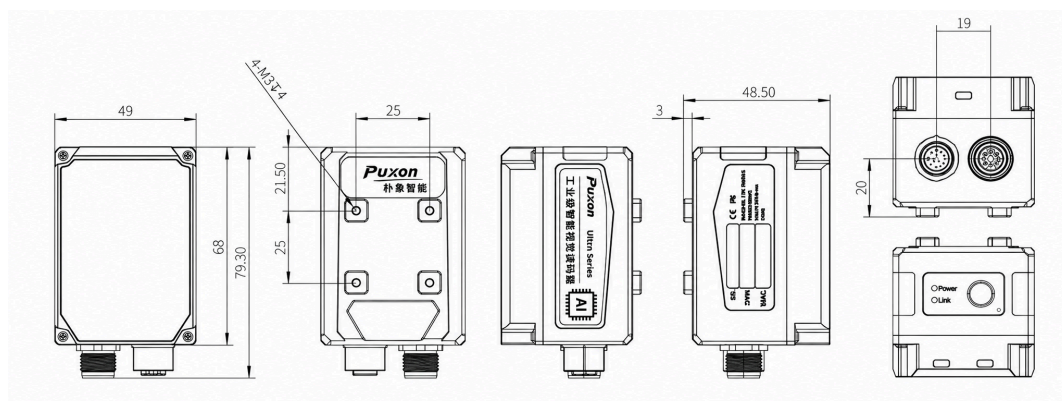


Industrial protection and system integration

A metal housing, electromagnetic shielding and adaptive filtering improve reading stability in welding processes and under intense light or vibration. IP65 protection supports industrial use.

Two industrial circular connectors; 100 Mbps Ethernet and RS-232 interfaces, with TCP/IP, EtherNet/IP, PROFINET, Modbus TCP and MC protocol support for integration with PLCs and host systems.

Dimensions & mounting · Unit: mm



Confirm mounting holes and overall dimensions against the mechanical drawing for the selected model.

One-Touch Setup+ for fast, reliable reading

Automatically detects symbologies, selects decoding algorithms, and optimizes lighting, exposure and gain to reduce repeated manual adjustments on site.

Quick Mode · Codes in motion

Prioritizes decoding speed on high-speed production lines. Burst mode captures successive images to improve reading reliability for moving codes.

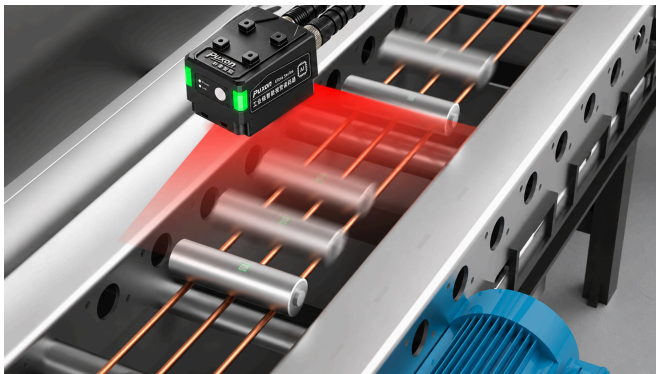
Max Mode · Challenging codes

Combines AI with conventional machine vision algorithms to read damaged, low-contrast and distorted codes, including those on textured metal surfaces.

AI decoding for challenging industrial codes

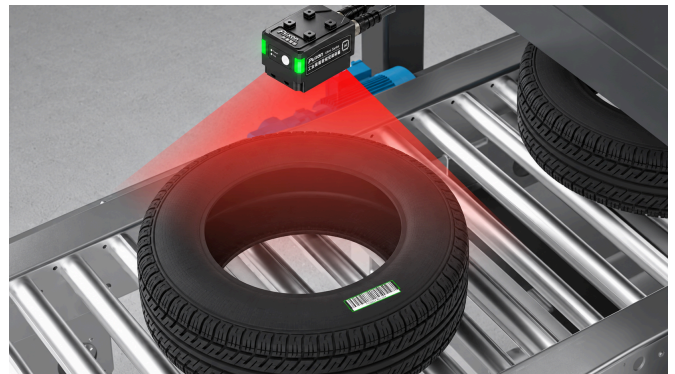
Over 1.92 million built-in decoding parameter configurations. Reads 1D and 2D codes affected by film interference, including laser-marked, dot-peened and high-density codes, with simultaneous multi-code reading.

Typical applications



Battery manufacturing · Codes in motion

Traceability data capture from cylindrical cells, reflective metal surfaces and codes moving on the line.



Automotive · Tire traceability

Reads tire and component codes for batch and process traceability on conveyor lines.

Multi-reader networking

Combine fields of view and depths of field to read codes on multiple sides.

Data formatting

Customize output formats for downstream system integration and data management.

Barcode quality assessment

Supports ISO/IEC 15415, ISO/IEC 16022 and ISO/IEC TR 29158.

LX200 SERIES

Focus configuration*	LX200 · Manual Focus	LX200 · Autofocus
Supported symbologies	2D: Data Matrix (ECC 200), QR Code 1D: Code 39, Code 93, Code 128, EAN-13, EAN-8, UPC-E, Interleaved 2 of 5	
Image sensor	1280 × 960 pixels, global shutter CMOS	
Max. acquisition rate	120 fps	
Illumination	Direct, polarized and diffuse lighting	
Lighting color	Red / white / blue / UV; red as standard	
Lens focal length*	6 / 12 / 16 mm	6 / 12 / 16 / 25 mm
Working distance*	6 mm lens: 30–300 mm 12 mm lens: 30–2000 mm 16 mm lens: 100–2000 mm	6 mm lens: 30–300 mm 12 mm lens: 60–2000 mm 16 mm lens: 85–2000 mm 25 mm lens: 220–2000 mm
Focus system	Manual (mechanical) focus	Autofocus
Aimer	Two green LED aiming dots	
Communication interfaces	100 Mbps Ethernet, RS-232	
Communication protocols	TCP/IP, EtherNet/IP (EIP), PROFINET (PN), Modbus TCP, MC, RS-232	
Digital I/O	2 polarity-independent isolated inputs + 3 polarity-independent isolated outputs	
Barcode quality assessment	ISO/IEC 15415, ISO/IEC 16022, ISO/IEC TR 29158 (AIM DPM-1-2006)	
Power supply	24 VDC ±10%	
Operating temperature	-10°C to +50°C	
Protection / compliance	IP65; CE, FCC, RoHS	

Field of view reference · Unit: mm

6 mm lens			12 mm lens			16 mm lens		
Distance D	Horizontal H	Vertical V	Distance D	Horizontal H	Vertical V	Distance D	Horizontal H	Vertical V
30	31	23.3	30	20	15	100	22.5	17
75	58	43.5	75	41	31	150	35	26
140	98	73.3	140	71	53	300	70.5	53
230	154	116	230	112	84	500	118.5	89
300	197	147.5	300	144	108	1000	236	177
						2000	475	355

Field-of-view values are test references. Confirm the 25 mm lens field of view for the selected configuration.

* Optional configurations; confirm the actual model before ordering.

Minimum bar / module size (tested) · Reference values in mil

Lens	Code 128	Data Matrix	QR Code
6 mm	4.58	3.75	3.75
12 mm	4.58	3.75	3.75
16 mm	4.58	3.75	3.75

Bar width (1D) / module size (2D), tested at each lens's optimum distance. Actual performance varies with code quality and operating conditions.