

# X5mini AI

## Industrial Vision Fixed Reader

X5mini AI is an ultra-small industrial vision code reader with an extremely compact design, with a length (without cables) of 55mm, a width of 35mm, and a body thickness of 32mm. This size makes it easier for users to fix it on testing machines, under preset tracks, and other places with narrow space layouts. The compact design, dual-core processor, megapixel image sensor, red and blue dual-color lighting system and integrated induction trigger sensor make this product quite advantageous in terms of performance and price, helping users reduce implementation costs and achieve efficient traceability of data especially in the field of testing fixture, SMT code collecting and automation device integration.



## Product Features



### Integrated induction trigger

No need to equip external trigger sensors, helping users save implementation costs. Powered by advanced AI algorithms and a dual core processor to make reading speed unparalleled.



### Support reading moving barcode

Support utmost 50cm/s dynamic barcode reading



### Flexible working for different distance

Taking into account both short-range recognition of small barcodes and medium-range recognition standard barcode, intelligent switching with HD and SR lens



### Easy integration

Compact design makes it easy to be placed at the narrow space, led prompt light can clearly show the reading status, support group working mode with master and slave that works at different workstation

# Specifications

Model			X5mini AI
Receiver	Sensor		CMOS Image Sensor with global shutter
	Number of pixels		1.3M, 1080 x 1280
Light emitter	Light source		High-intensity red LED and blue LED automated switch + manually adjustment
	Aimer		Laser positioning aimer
Focus adjustment			Dual Prime lens
Reading specifications	Supported symbol	1D	Code128,GS1 128,Code39,Code93,codabar,2of5 (Industrial 2of5),EAN/UPC
		2D	QR、DataMatrix (ECC200) 、PDF417、Micro PDF417
	Minimum resolution	1D	3.3mil
		2D	5.0mil
I/O specifications	Control input	Connection ports	2
		Input type	Bidirectional voltage input
		Maximum rating	30V
		Minimum ON voltage	< 4V
		Maximum OFF current	0.001A
	Control output	Connection ports	2
		Output type	2 optocoupler output
		Maximum rating	30V
		Maximum load current	1 output: 50 mA or less, 3-output total: 100 mA or less
		Leakage current when OFF	0.1 mA or less
		Residual voltage when ON	1 V or less
	Ethernet	Supported protocol	TCP Client, TCP Server, Profinet, MELSEC, Ethernet/IP, ModBusTcp(poll/slave), Fins
	Serial communication	Communication speed	115200/57600/38400/19200/9600 bps
		Supported protocol	RS232
	USB	Communication standard	USB 2.0 Full Speed compliant
Environmental Resistance	Enclosure rating		IP65
	Ambient temperature		0° to 50°C
	Ambient storage temperature		-20°C to 70°C
	Relative humidity		5 to 95% RH (No condensation)
	Storage ambient humidity		5 to 95% RH (No condensation)
	Ambient light		0 to 10000 lux
	Operating environment		No dust or corrosive gas present
Rating	Power supply voltage		10 to 30V DC
	Current consumption		0.5 to 1.5 A
Weight			Approx.133±5 g

## PRODUCT SPEC SHEET

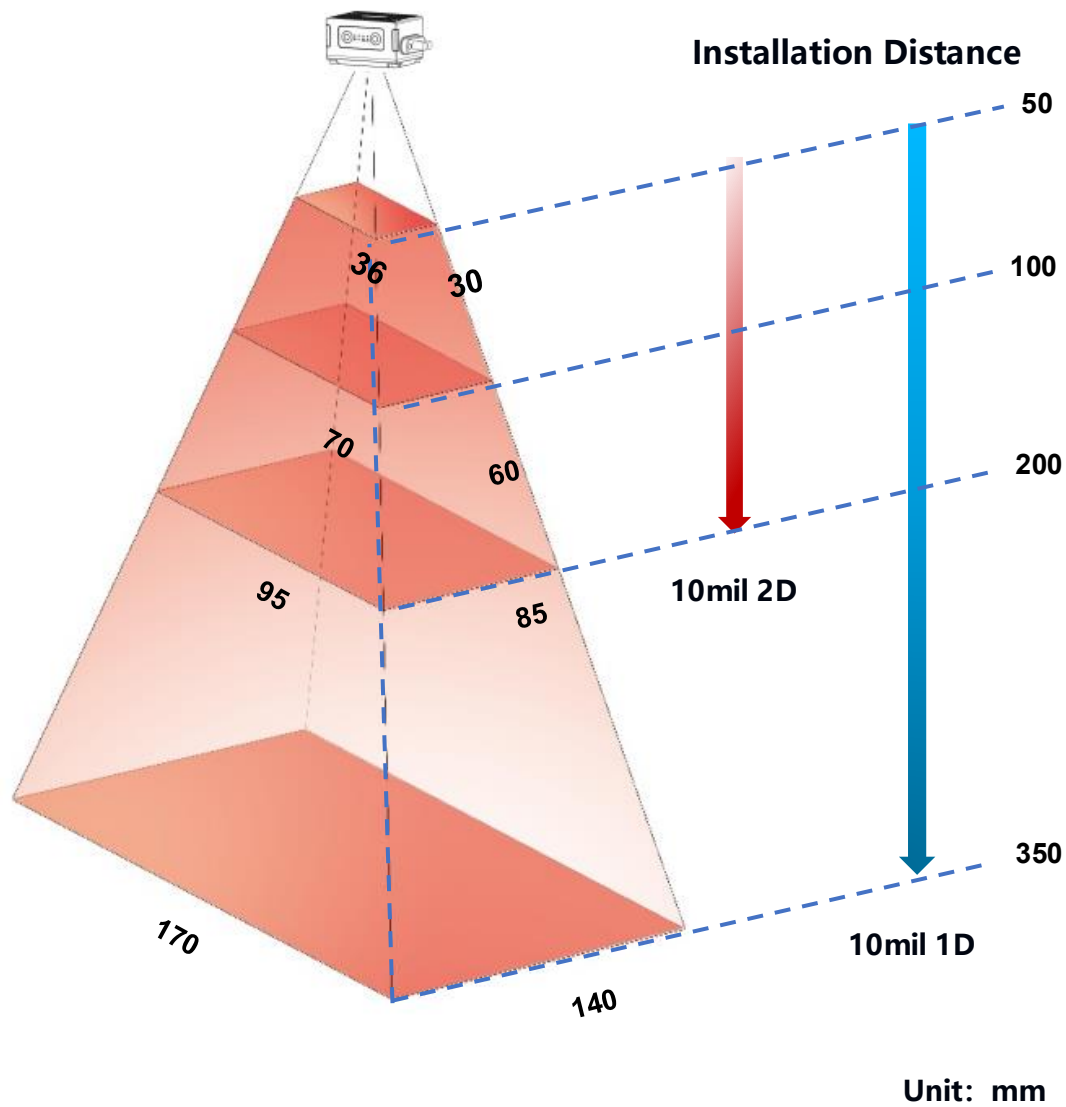
X5mini AI vision fixed scanner

Dimensions (L x W x H)

55mm x 35mm x 32mm

## 2. Field of View and Installation Distance

X5mini uses Dual Prime lens and supports decoding in the range of 50mm to 350mm



3. Field Of View (Typical Example)

Distance (mm)	2D	Distance (mm)	1D
55~170	5mil	50~200	3.3mil
50~250	6.6mil	40~300	5mil
40~275	10mil	35~350	7.5mil
40~320	13mil	35~400	10mil

Distance (mm)	Field of View (mm)	
50	36	30
100	70	60
200	95	85
300	140	120
350	170	140

4. Dimensions

