

PRODUCT SPEC SHEET

X4 AI

FIXED SCANNER

X4 AI

Industrial Fixed Scanner

As a high-performance industrial barcode reader, X4 AI can be used in scenarios such as SMT line mobile code reading, assembly line picking/assembly code reading, electronic test fixtures, and automation equipment integration.X4 AI with all new Octa-core AI chipset, which helps achieve complex barcode identify and decoding with no latency, powered by AI algorithms, it can automatically and rapidly locks onto and decodes barcodes, enabling zero debugging and instant deployment. X4 AI is equipped with a new decoding algorithm and image processing filter, which can effectively improve the reading rate of various difficult-to-read DPM barcodes and fastest moving speed of 3m/s dynamic barcodes . Moreover, X4 AI has an intelligent variable light source, which can automatically adapt to barcodes with different background colors, making debugging more convenient.



Product Features



Super strong decoding speed with AI

Equipped with a new AI chip, it effortlessly reads complex barcodes, such as inverted Color Code with inconsistent patterns and colors, barcodes with intricate background textures, Low-contrast (10%) problematic barcodes, reflective barcodes engraved on curved metal surfaces



Octa-core high-speed processor

X4 AI is equipped with a new generation of Octacore high-speed processor, which is multichannel parallel in image acquisition-decoding-communication operations, and the response speed is greatly improved



1. Specifications

	М	odel	X4AI	(Standard)	X4W AI (Wide view)	
D	Sensor		СМО	CMOS Image Sensor with global shutter		
Receiver	Number of pixels			1.3M, 1280 x 1024		
	Light source Aimer		High-i	ntensity red LED	O or white LED	
ight emitter			Laser dual-point positioning aimer Class II			
Focus adjustment			50mr	n to 1000mm a	adjustable 50mm to 500mm adjustable	
			Code	128、GS1 128、	Code39、Code93、codabar、	
	Supported symbol	1D	Interleaved 2 of 5、EAN/UPC			
Reading specifications		2D	QR,	DataMatrix (EC	CC200) 、PDF417、Micro PDF417	
specifications	Minimum	1D	3.3mi	I		
	resolution	2D	2.0mi	I		
		Points	2			
		Input type	Bidire	Bidirectional voltage input		
	Control	Maximum rating	30V			
	input	Minimum ON voltage	< 4V			
		Maximum OFF current	0.001	A		
		Points	3			
	Control output	Output type	3 opto	coupler output		
		Maximum rating	30V			
1/0		Maximum load current	1 outp	out: 50 mA or les	ss, 3-output total: 100 mA or less	
specifications		Leakage current when OFF	0.1 m	A or less		
		Residual voltage when ON	1 V or	less		
	Ethernet Supported protocol				r, TCP Server, FTP, Profinet, MELSEC, Tcp(poll/slave), Fins	
	Sorial	Communication speed	11520	115200/57600/38400/19200/9600 bps		
	communica Supported protocol		RS232	2/RS485		
	USB	Communication standard	USB 2	2.0 Full Speed co	ompliant	
		Enclosure rating				
	Ambient temperature		0°~50)°C		
Parada	Ambient storage temperature		-20°C	-20°C ~70°C		
Environmenta	Relative humidity		5% to	95% RH (No	condensation)	
I Resistance	Storage ambient humidity		5% to	5% to 95% RH (No condensation)		
	Ambient light		0~10	0~10000 lux		
	Operating environment		No du	No dust or corrosive gas present		
5.0	Power supply voltage		10~3	10~30V DC		
Rating		Current consumption	0.5 ~	1.5A		
Neight			Appro	x.220g		
Dimensions (L x	WxH)		61.2m	nm x 48.7mm x	45.55mm	



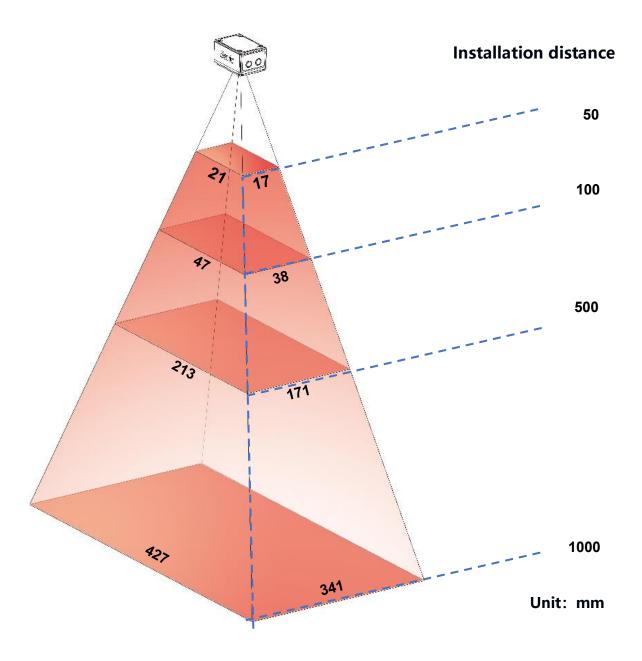






2. Field of View and Installation Distance

X4 Al supports focusing in the range of 50mm ~ 1000mm, and also supports automatic and manual focusing





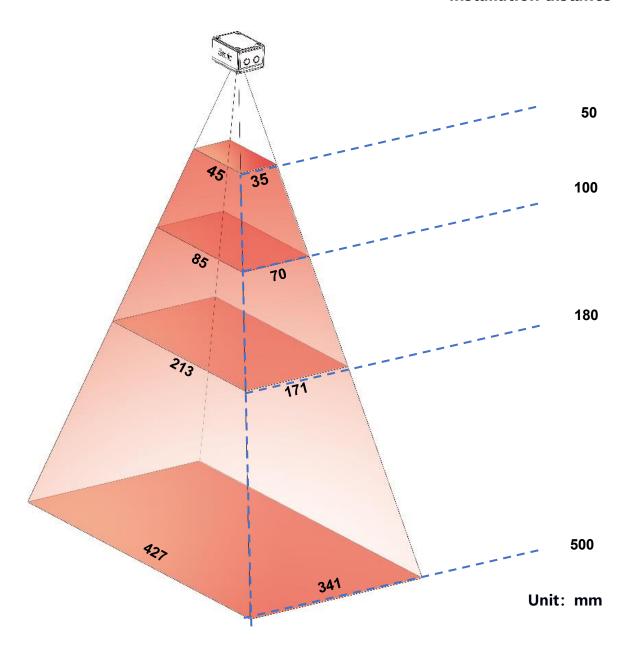






X4W Al supports focusing in the range of 50mm \sim 500mm, and also supports automatic and manual focusing

Installation distance











3. Field Of View (Typical Example)

X4AI

Distance (mm)	2D	Distance (mm)	1D
50 - 83	2.5mil	55-230	3.3mil
50-125	3.3mil	45-400	5mil
50-230	5mil	45-560	7.5mil
45-450	10 mil	40-600	10mil
40-760	20 mil	40-1000	20mil

Distance (mm)	Field of View (mm)	
50	21	17
100	47	38
180	77	61
350	149	119
500	213	171
1000	427	341

X4W AI

Distance (mm)	2D	Distance (mm)	1D
35-53	2.5mil	30-140	3.3mil
35-72	3.3mil	30-200	5mil
33-115	5mil	30-285	7.5mil
30-225	10 mil	30-380	10mil
30-380	20 mil	30-500	20mil

Distance (mm)	Field of View (mm)	
50	45	35
100	85	70
180	153	122
310	260	205
350	295	235
500	427	341

4. Product Dimensions















5. Bracket dimensions

