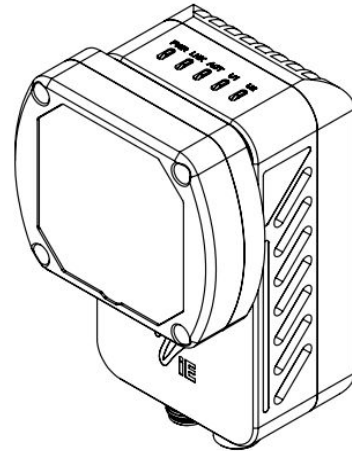


DESCRIPTION

The XS-210 smart code reader is a high-performance device designed to effortlessly handle a wide array of 1D and 2D codes. With an impressive maximum reading speed of 90 codes per second, it excels at quickly and accurately decoding various code types. Its outstanding performance is the result of utilising a cutting-edge deep learning algorithm, ensuring consistent and dependable image processing, and enabling the recognition of multiple codes with precision.

FEATURES

- Built-in deep learning model enables accurate code reading
- Incorporates a controllable light source design, offering versatile lighting options
- Features a mechanical autofocus lens for automatic focusing
- Supports quality evaluation to assess code printing precision
- Utilises a CMOS global shutter sensor to deliver high-quality images
- Ingress protection rating with IP67



SPECIFICATION

General Specifications

Product ID	9808-200/201
Model	XS-210
Model Description	Industrial Code Reader - XS-210 Series 5.2MP
Dimension (L x W x H)	78.2 mm (L) x 63.65 mm (W) x 125.25 mm (H) (3.0787" x 2.5059" x 4.9311")
Weight	540 g ± 10 g (1.1905 lb. ± 0.0220 lb.)
Power Consumption	24 W @ 24 VDC
Compliance	RoHS
Country of Origin	Malaysia
Manufacturer	ViE Technologies Sdn. Bhd.

Technical Specifications

Type		XS-210
Receiver	Sensor	CMOS (Mono, Global Shutter)
	Resolution	2560 × 2048
	Lens Mounting	M12-mount
	Focus	Mechanical Auto Focus
	Maximum Frame Rate (FPS)	40
	Focal Length	Standard Range: 8 mm (0.3149") Long Range: 12 mm (0.4724") Extended Range: 16 mm (0.6299") Extended Long Range: 25 mm (0.9842")
	Pixel Size	3.2 µm × 3.2 µm
	Sensor Size	1/1.7"

The product details are subject to change without further notice.

SPECIFICATION

Type			XS-210
Receiver	Exposure Time		60 μ s to 1 sec
	Gain		0 dB to 18 dB
Emitter	Illumination Light Source Option		High Intensity Red / White / Blue/ Infrared LED * ¹
	Lens Cap		Polarised
	Pointer Light Source		Orange LED * ¹
Reading Specification	Supported Symbols	2D Codes	QR Code, Data Matrix, Micro QR and PDF417
		Barcodes	Code 39, Code 93, Code 128, CodaBar, EAN8, EAN13, ITF25, ITF14, MATRIX25, UPCA, UPCE, MSI, CODE11, INDUSTRIAL25, CHINAPOST and PHARMACODE
	Minimum Resolution	2D Codes	0.030 mm (0.0011")
		Barcodes	0.010 mm (0.0003")
	Reading Distance		Standard Range: 25-600 mm (0.9842"-23.6220") Long Range: 60-600 mm (2.3622"-23.6220") Extended Range: 100-600 mm (3.9370"-23.6220") Extended Long Range: 230-600 mm (9.0551"-23.6220")
	Reading Field of View (working distance at 300 mm (11.8110"))		Standard Range: 307.20 mm x 245.76 mm (12.0944" x 9.6755") Long Range: 204.80 mm x 163.84 mm (8.0629" x 6.4503") Extended Range: 153.60 mm x 122.88 mm (6.0472" x 4.8377") Extended Long Range: 98.30 mm x 78.64 mm (3.8700" x 3.0960")
	Maximum Reading Speed		90 codes/sec
I/O Specifications	Control Input	Number of Inputs	3
		Input Type	Isolated Input
	Control Output	Number of Outputs	3
		Output Type	Isolated Output
	Ethernet	Communication Standard	IEEE 802.3ab Compliant, 1000BASE-T
		Supported Protocol	SmartSDK, TCP Client, Serial, FTP, TCP Server and UDP
	Serial Communication	Communication Standard	RS-232C Compliant
		Transmission Speed	4800, 9600, 19200, 38400, 57600, 115200 bps
Environment Resistance	Enclosure Rating		IP67 * ²
	Surrounding Temperature		0 to +45 °C (32 to 113 °F)
	Ambient Storage Temperature		-30 to +70 °C (-22 to 158 °F)

The product details are subject to change without further notice.

SPECIFICATION

Type		XS-210
Environment Resistance	Relative Humidity	20% to 95% RH (No Condensation)
	Ambient Storage Humidity	20% to 95% RH (No Condensation)
	Operating Environment	No Corrosive Chemical or Gas Present
Rating	Power Consumption	24 W
	Power Supply Voltage	24 VDC
	Current Consumption	1 A
Weight		Approx. 540 g (1.1905 lb.)
Dimension		78.2 mm (L) x 63.65 mm (W) x 125.25 mm (H) (3.0787" x 2.5059" x 4.9311")
VisionCodeX	Supported Operating System	Windows 7 Professional or later, 32 bit / 64 bit Windows 8 Professional or later, 32 bit / 64 bit (Except for Windows RT) Windows 10 Professional or later, 32 bit / 64 bit Windows 11 Professional or later, 32 bit / 64 bit
	Minimum Running Environment Requirement	Processor: 2.0 GHz and above (minimum 2 cores 32-bit or 64-bit) RAM: 8 GigaByte (GB) Storage: Required free space on hard disk 2 GB (for VisionCodeX Installation) Display: High definition (720p) display, 8 bits per colour channel
	Recommended Running Environment Requirement	Processor: 2.4 GHz and above (minimum 4 cores 32-bit or 64-bit) RAM: 16 GigaByte (GB) Storage: Required free space on hard disk 20 GB (for VisionCodeX Installation and data storage) Display: Full High definition (1080p) display, 8 bits per colour channel Graphics: Compatible with DirectX 12 or later with WDDM 2.0 Driver

Note:

*1 LEDs are classified according to IEC 62471 (JIS C 7550).

- Exempt group: Objects that do not cause any photobiological damage.
- Risk group 1 (low risk): Objects that do not cause damage that make constraints on normal actions necessary.
- Risk group 2 (moderate risk): Objects that do not cause damage accompanied by unpleasant feelings and thermal discomfort.
- Risk group 3 (high risk): Objects that cause damage even due to temporary or short-term exposure.

*2 Tested against dust over an extended time, protection against contact with objects greater than 1 mm (0.0393") in diameter, such as wire or a small tool. Protected against short periods of immersion in water while under pressure up to 1 m (39.3701").

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SPECIFICATION

Distance		XS-210 (Standard Range)							
		MINIMUM RESOLUTION				FIELD OF VIEW			
		Barcode		2D Code		Horizontal		Vertical	
25 mm	0.9843"	0.010 mm	0.0004"	0.030 mm	0.0012"	25.60 mm	1.0079"	20.48 mm	0.8063"
100 mm	3.9370"	0.040 mm	0.0016"	0.120 mm	0.0047"	102.40 mm	4.0315"	81.92 mm	3.2252"
200 mm	7.8740"	0.080 mm	0.0031"	0.240 mm	0.0094"	204.80 mm	8.0630"	163.84 mm	6.4504"
300 mm	11.8110"	0.120 mm	0.0047"	0.360 mm	0.0142"	307.20 mm	12.0945"	245.76 mm	9.6756"
400 mm	15.7480"	0.160 mm	0.0063"	0.480 mm	0.0189"	409.60 mm	16.1260"	327.68 mm	12.9008"
500 mm	19.6850"	0.200 mm	0.0079"	0.600 mm	0.0236"	512.00 mm	20.1575"	409.60 mm	16.1260"
600 mm	23.6220"	0.240 mm	0.0094"	0.720 mm	0.0283"	614.40 mm	24.1890"	491.52 mm	19.3512"

Distance		XS-210 (Long Range)							
		MINIMUM RESOLUTION				FIELD OF VIEW			
		Barcode		2D Code		Horizontal		Vertical	
60 mm	2.3622"	0.016 mm	0.0006"	0.048 mm	0.0019"	40.96 mm	1.6126"	32.77 mm	1.2902"
100 mm	3.9370"	0.027 mm	0.0011"	0.080 mm	0.0031"	68.27 mm	2.6878"	54.61 mm	2.1500"
200 mm	7.8740"	0.053 mm	0.0021"	0.160 mm	0.0063"	136.53 mm	5.3752"	109.23 mm	4.3004"
300 mm	11.8110"	0.080 mm	0.0031"	0.240 mm	0.0094"	204.80 mm	8.0630"	163.84 mm	6.4504"
400 mm	15.7480"	0.107 mm	0.0042"	0.320 mm	0.0126"	273.07 mm	10.7508"	218.45 mm	8.6004"
500 mm	19.6850"	0.133 mm	0.0052"	0.400 mm	0.0157"	341.33 mm	13.4382"	273.07 mm	10.7508"
600 mm	23.6220"	0.160 mm	0.0063"	0.480 mm	0.0189"	409.60 mm	16.1260"	327.68 mm	12.9008"

The product details are subject to change without further notice.

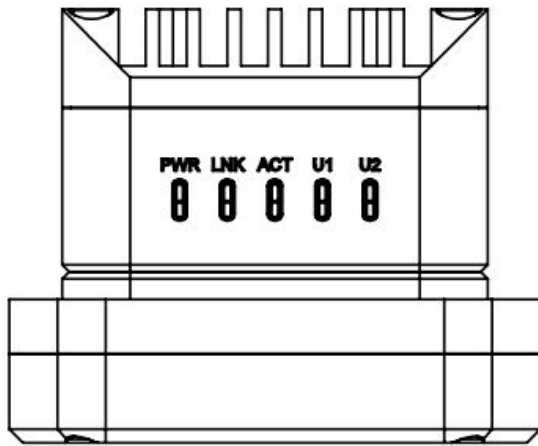
SPECIFICATION

Distance		XS-210 (Extended Range)							
		MINIMUM RESOLUTION				FIELD OF VIEW			
		Barcode		2D Code		Horizontal		Vertical	
100 mm	3.9370"	0.020 mm	0.0008"	0.060 mm	0.0024"	51.20 mm	2.0157"	40.96 mm	1.6126"
200 mm	7.8740"	0.040 mm	0.0016"	0.120 mm	0.0047"	102.40 mm	4.0315"	81.92 mm	3.2252"
300 mm	11.8110"	0.060 mm	0.0024"	0.180 mm	0.0071"	153.60 mm	6.0472"	122.88 mm	4.8378"
400 mm	15.7480"	0.080 mm	0.0031"	0.240 mm	0.0094"	204.80 mm	8.0630"	163.84 mm	6.4504"
500 mm	19.6850"	0.100 mm	0.0039"	0.300 mm	0.0118"	256.00 mm	10.0787"	204.80 mm	8.0630"
600 mm	23.6220"	0.120 mm	0.0047"	0.360 mm	0.0142"	307.20 mm	12.0945"	245.76 mm	9.6756"

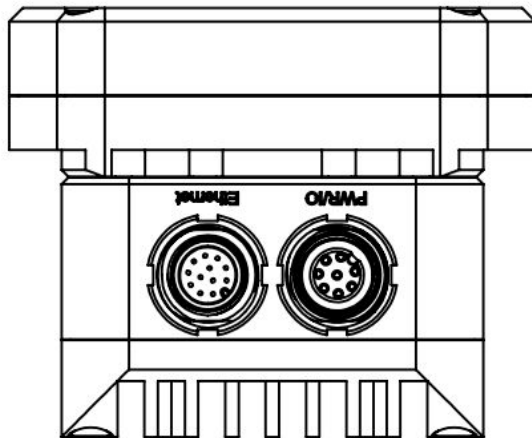
Distance		XS-210 (Extended Long Range)							
		MINIMUM RESOLUTION				FIELD OF VIEW			
		Barcode		2D Code		Horizontal		Vertical	
230 mm	9.0551"	0.029 mm	0.0011"	0.088 mm	0.0035"	75.37 mm	2.9673"	60.29 mm	2.3736"
300 mm	11.8110"	0.038 mm	0.0015"	0.115 mm	0.0045"	98.30 mm	3.8701"	78.64 mm	3.0961"
400 mm	15.7480"	0.051 mm	0.0020"	0.154 mm	0.0061"	131.07 mm	5.1602"	104.86 mm	4.1283"
500 mm	19.6850"	0.064 mm	0.0025"	0.192 mm	0.0076"	163.84 mm	6.4504"	131.07 mm	5.1602"
600 mm	23.6220"	0.077 mm	0.0030"	0.230 mm	0.0091"	196.61 mm	7.7406"	157.29 mm	6.1925"

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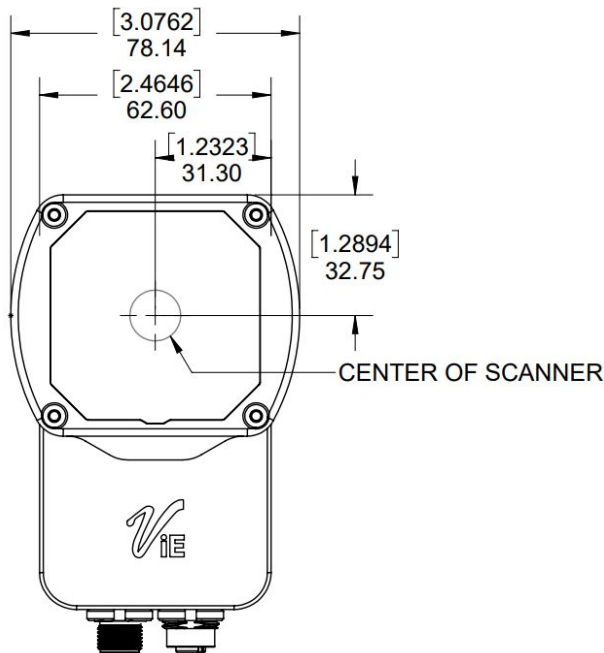
DRAWING (Unit in mm, [inches])



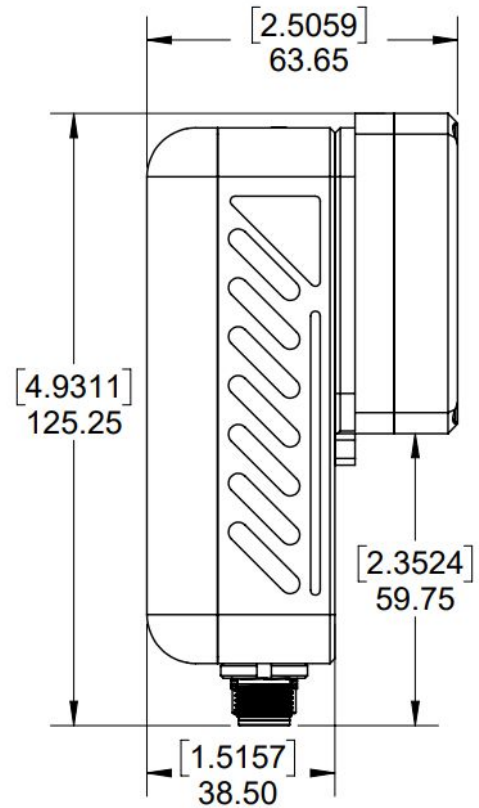
Top View



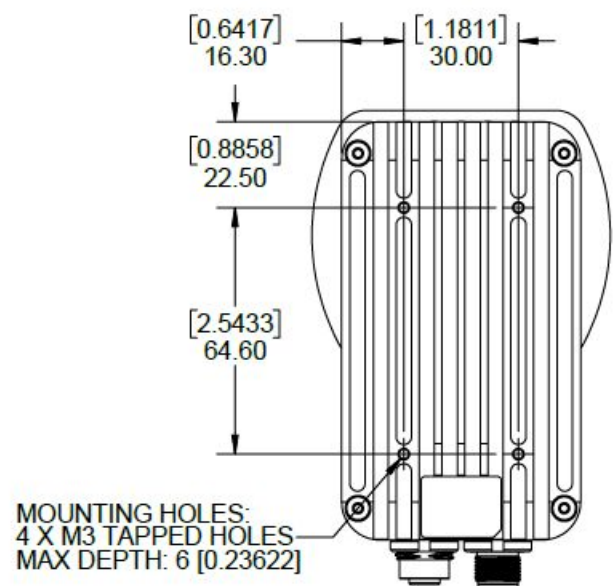
Bottom View



Front View



Left View



Back View

The product details are subject to change without further notice.