# XS-95

Industrial Code Scanner - XS-95 Series 1.4MP

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### DESCRIPTION

The XS-95 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 45 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
- Utilises LED aiming lights for precise code alignment assistance
- Employs a focus knob for manual focusing adjustment
- Smart tune button for automatically adjusting lighting and camera parameters for optimising decoding
- Features multiple IO interfaces along with a plug-in power interface for enhanced connectivity
- Compact design, occupying minimal space

## SPECIFICATION

General Specifications	
Product ID	9808-005
Model	XS-95
Model Description	Industrial Code Scanner - XS-95 Series 1.4MP
Dimension (L x W x H)	46 mm (L) × 38 mm (W) × 25 mm (H) (1.8110" × 1.4961" × 0.9843")
Weight	160 g ± 10 g (0.3527 lb. ± 0.0220 lb.)
Power Consumption	3.6 W @ 24 VDC
Compliance	RoHS
Country of Origin	Malaysia
Manufacturer	ViE Technologies Sdn. Bhd.

#### **Technical Specifications**

Туре		XS-95			
Receiver	Sensor	CMOS (Mono, Global Shutter)			
	Resolution	1408 × 1024			
	Lens Mounting	M10-mount, adjusting focus manually supported			
	Focus	Manual			
	Maximum Frame Rate (FPS)	60			
	Focal Length	6.72 mm (0.2646")			
	Pixel Size	3.45 μm × 3.45 μm			
	Sensor Size	1/2.9"			



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# SPECIFICATION

	Туре		XS-95			
Dession	Expos	sure Time	16 µs to 1 sec			
Receiver	(	Gain	0 dB to 15 dB			
Emitter	Illumination Lig	ght Source Option	High Intensity Red *1			
	Pointer L	ight Source	Green LED <sup>*1</sup>			
		2D Codes	QR Code and Data Matrix			
	Supported Symbols	Barcodes	Code 39, Code 93, Code 128, CodaBar, EAN8, EAN13, ITF25, ITF14, UPCA and UPCE			
	Minimum	2D Codes	0.062 mm (0.0024")			
Reading	Resolution	Barcodes	0.023 mm (0.0009")			
Specification	Reading	g Distance	40-120 mm (1.5748"-4.7244")			
	(working dist	Field of View ance at 120 mm 7244"))	86.74 mm x 63.09 mm (3.4149" x 2.4838")			
	Maximum F	Reading Speed	45 codes/sec			
	Control Input	Number of Inputs	1			
	Control Input	Input Type	Non-isolated Input			
	Question I. Queta est	Number of Outputs	1			
	Control Output	Output Type	Non-isolated Output			
	Configurable	Number	2			
I/O	bi-directional	Туре	Non-isolated			
Specifications	Ethernet	Communication Standard	IEEE 802.3u Compliant, 100BASE-TX			
		Supported Protocol	SmartSDK, TCP Client, Serial, FTP, TCP Server and UD			
	Serial	Communication Standard	RS-232C Compliant			
	Communication	Transmission Speed	4800, 9600, 19200, 38400, 57600, 115200 bps			
	Enclos	ure Rating	IP65 *2			
Environment Resistance	Surrounding	g Temperature	0 to +45 °C (32 to 113 °F)			
	Ambient Stora	age Temperature	-30 to +70 °C (-22 to 158 °F)			
	Relative	e Humidity	20% to 95% RH (No Condensation)			
		orage Humidity	20% to 95% RH (No Condensation)			
		Environment	No Corrosive Chemical or Gas Present			



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## SPECIFICATION

	Туре	XS-95			
Rating	Power Consumption	3.6 W			
	Power Supply Voltage	24 VDC			
	Current Consumption	0.15 A			
Weight		Approx. 160 g (0.3527 lb.)			
Dimension		46 mm (L) × 38 mm (W) × 25 mm (H) (1.8110" × 1.4961" × 0.9843")			
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			

		XS-95 (Standard Range)							
Distance		MINIMUM RESOLUTION				FIELD OF VIEW			
		Baro	Barcode		2D Code		Horizontal		Vertical
40 mm	1.5748"	0.023 mm	0.0009"	0.062 mm	0.0024"	28.91 mm	1.1382"	21.03 mm	0.8280"
80 mm	3.1496"	0.045 mm	0.0018"	0.123 mm	0.0048"	57.83 mm	2.2768"	42.06 mm	1.6559"
120 mm	4.7244"	0.068 mm	0.0027"	0.185 mm	0.0073"	86.74 mm	3.4150"	63.09 mm	2.4839"

Note:

<sup>\*1</sup> 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.

<sup>\*2</sup> 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 from low-pressure water jets from any direction.

The product details are subject to change without further notice.

ViE Technologies Sdn. Bhd.

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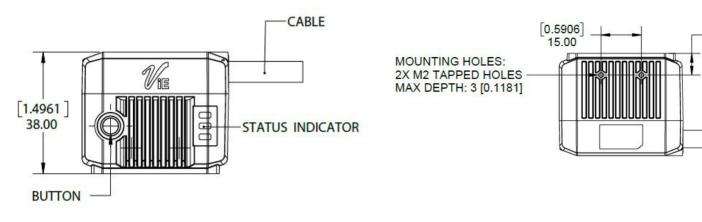
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0.3150

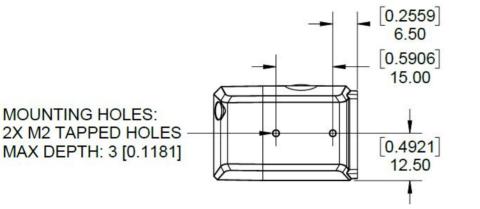
8.00

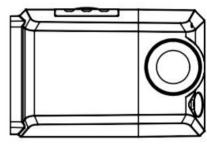
DRAWING (Unit in mm, [inches])



Top View

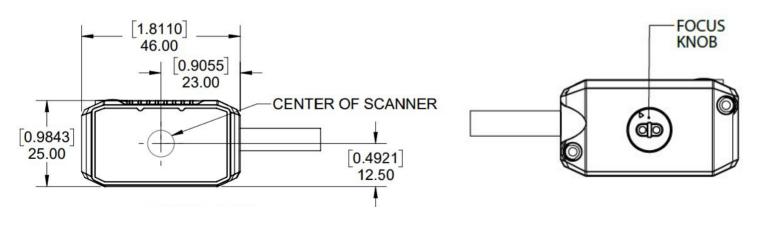
Bottom View





Left View

**Right View** 



Front View

Back View

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