

Compact Autofocus 1D/2D Code Reader with AI

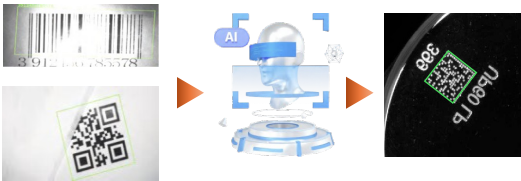
[VN-600]

- 1280 x 800 1 MP image resolution
- Supports 1D / 2D, printed, and DPM codes
- 30 to 300 mm reading distance



AI deep learning for optimal detection

Built-in deep learning processor to eliminate noise and reflective lights. Auto select variant of 1D / 2D codes.



Stable reading across FOV

A wide field of view gives strong reading performance even at the border of the field of view.



Read irregular printed code easily

Say goodbye to scanning errors and hello to smooth, efficient operations — making your workflow more reliable and hassle-free.



Easy tuning to optimize reading settings

The optimal exposure and settings can be adjusted using the auto-tuning button on the reader.



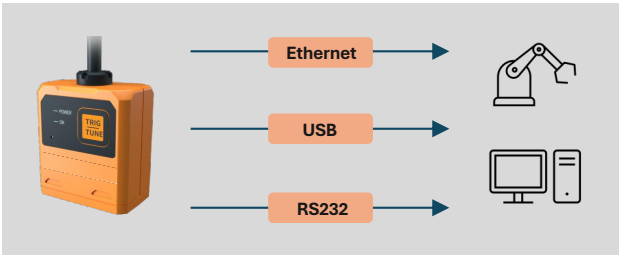
Data Filtering & verification

Code contents can be verified with more than 30 criteria in the software.

Specify Content Ending: 4

Code Content: A A A A 1 1 1 4 OK
Code Content: A A A A 1 1 1 1 NG

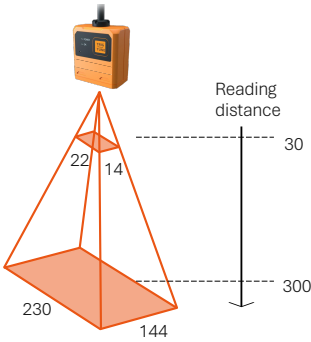
System Configuration Diagram



Reading Range

unit: mm

Reading Range	Width	Height	Minimum Resolution	
			Barcode	2D
30	22	14	0.021	0.034
50	38	24	0.036	0.059
100	76	38	0.071	0.119
150	115	72	0.108	0.180
200	153	96	0.143	0.239
300	230	144	0.216	0.359



VN-600 Series Variant

Model	Light Source	Megapixel	Focus Mode
VN-600-111	White	1MP (1280 x 800)	Auto
VN-600-112	Red	1MP (1280 x 800)	

Accessories Lineup

Main unit



Code Reader
VN-600

Cable



Control Cable (RJ45, RS232)
3 m: HDB15P-M-ETH-3M
3 m USB: HDB15P-M-USB-3M
5 m: HDB15P-M-ETH-5M
5 m USB: HDB15P-M-USB-5M
10 m: HDB15P-M-ETH-10M
10 m USB: HDB15P-M-USB-10M

Power Supply



24V Power Adapter
FG-168

Bracket & Screw



L Shape Installation Bracket
FG-601

Software



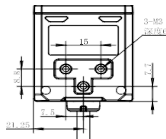
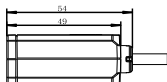
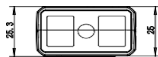
Barcode Scanner Software
FG-S01

Specifications

Model			VN-600
Receiver	Sensor		CMOS image sensor
	Number of pixels		1280 x 800
	Focus		Autofocus
	Frame Rate		60
	Pixel Size		3 μm x 3 μm
Emitter	Illumination light source		High intensity red/ white LED
	Pointer light source		Green LED
Reading	Symbology	2D	DataMatrix, QR Code, Micro QR, PDF417
		Barcode	Code 39, Code 93, Code 128, EAN-8, EAN-13, Interleaved 2 of 5, UPC, Pharmacode
	Minimum Resolution	2D	0.034 mm
		Barcode	0.021 mm
	Reading distance		30 to 300 mm
	FOV at 300 mm		230 x 144 mm
I/O	Number of control inputs		2
	Number of control outputs		2
	Supported protocol	Ethernet	TCP / IP, Ethernet / IP, Modbus, Profinet
		Serial	RS-232C
		USB	USB 2.0 full speed compliant
Environment Resistance	Enclosure rating		IP54
	Surrounding temperature		0 to +45°C
	Ambient storage temperature		-20 to +70°C
	Relative humidity		5 to 95% RH (No condensation)
Rating	Power consumption		5W
	Power supply voltage		24 VDC / USB 5V
Weight			Approx. 80 g
Dimension			49 x 25 x 42.5 mm

Dimensions

unit: mm



Overview

Code Reader

Handheld Reader

Vision Sensor

Vision System

Fiberoptic Sensor

Photoelectric Sensor

RGB Colour Sensor

Proximity Sensor

Ultrasonic Sensor

Safety Curtain

Ionizer