Al-Powered Liquid Lens 1D / 2D Code Reader [VN-800]

- 1288 x 1088 1.4 MP image resolution
- Capability to read 1 x 1 mm 2D code
- Built in liquid lens for high read rates



Strive for 100% reading performance

Utilising advanced decoding algorithms and liquid lens technology, VN-800 enhances efficiency by achieving high read rates while dealing with low-light conditions and damaged codes.

> Liquid lens Cube-A Technology

Auto-focus function

Focusing function with conventional models was done manually, focusing function on the VN-800 can now be done automatically with just a click of the "Execute" button.

Compact sized, easily fitted

Capture any target in any environment. The device is 47 x 25 x 43 mm in size, helps user easily fit into any space.



Auto polarisation function

Polarisation tuning to eliminate glare and noise can be done automatically with the VN-800 series.









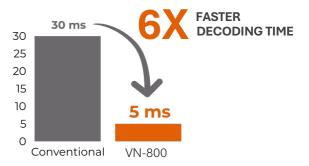
Works with 30 and more materials

VN-800 compatible with over 30 materials, including aluminum, steel, and various reflective surfaces. This capability ensures reliable performance across scratched or reflective surfaces.



6 times faster decoding speed

The deep learning algorithm enhances decoding efficiency by 6 times, cutting processing time to 5ms for unmatched speed and reliability.



Overview

Code Reader

Handheld Reader

Vision Sensor

Vision System

Fiberoptic Sensor

Photoelectric Sensor

RGB Colour Sensor

Proximity Sensor

Ultrasonic Sensor

Safety Curtain

lonizer

IP67 enclosure rating

A well-engineered and durable structure ensures a high level of waterproofing, providing long-lasting protection against moisture and environmental conditions.



Reading Range

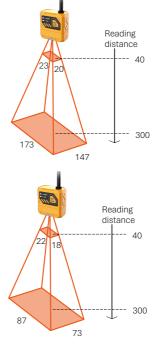
VN-800 1.4 MP

6	mm	lens

Reading	Width	Height	Minimum I	Resolution
Range	Width	Teight	Barcode	2D
40	23	20	0.022	0.036
100	58	50	0.054	0.091
150	87	73	0.082	0.136
200	116	98	0.109	0.181
300	173	147	0.162	0.270



Reading	Width	Height	Minimum	Resolution
Range	vvidtn		Barcode	2D
100	22	18	0.021	0.034
200	43	37	0.040	0.067
300	65	55	0.061	0.102
400	87	73	0.082	0.136



VN-800 Series Variant

Model	Light Source	Megapixel	Lens	Focus Mode
VN-800-111	White	1.4MP (1280 x 1088)	6 mm	
VN-800-112	Red	1.4MP (1280 x 1088)	6 mm	Auto
VN-800-121	White	1.4MP (1280 x 1088)	16 mm	Auto
VN-800-122	Red	1.4MP (1280 x 1088)	16 mm	



Main unit



Code Reader **VN-800**

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

Cable



Power Supply

FG-168



24V Power Adapter

Bracket & Screw

L Shape Installation Bracket FG-801

Software



Barcode Scanner Software **FG-S01**

Code Reader

Overview **Code Reader** Handheld Reader **Vision Sensor** Vision System Fiberoptic Sensor Photoelectric Sensor **RGB** Colour Sensor Proximity Sensor Ultrasonic Sensor Safety Curtain Ionizer

VN-800 Liquid Lens Code Reader

Code Reader

Overview

Code Reader
Handheld

Reader

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Model			VN-800
Receiver	Sensor		CMOS image sensor
	Number of pixels		1288 x 1088
	Focus		Autofocus
	Frame Rate		60
	Pixel Size		3 µm x 3 µm
Emitter	Illumination light	source	High intensity red/white LED
Emitter	Pointer light sour	rce	Green LED
		2D	DataMatrix, QR Code, Mircro QR, PDF417
	Symbology	Barcode	Code 39, Code 93, Code 128, EAN-8, EAN-13, Interleaved 2 of 5, UPC,
		Barcoue	Pharmacode
Reading	Minimum	2D	0.031 mm
	Resolution	Barcode	0.015 mm
	Focallens		6 m m
	Reading distance		40 to 400 mm
	Number of control inputs		2
	Number of control outputs		3
1/0	Supported	Ethernet	TCP / IP, Ethernet / IP, Modbus, Profinet
	protocol	Serial	RS-232C
	Enclosure rating		IP67
Environment	Surrounding temperature		0 to +45°C
Resistance	Ambient storage temperature		-20 to +70°C
Resistance	Relative humidity		5 to 95% RH (No condensation)
Deting	Power consumption		5 W
Rating	Power supply voltage		24 VDC
Weight			Approx. 110 g
Dimension			47 x 25 x 43 mm

