imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



For Direct Marking Applications

Handheld 2D Code Reader V400-H Series OMRON



A New Handy Reader Capable

The increasing importance that is being placed on productivity improvements and data management in recent years has led to a rise in the need to mark information directly onto products. The information extends from general product and production information to a production history that tells exactly how the product was manufactured.

Data management in which space-efficient 2D codes are directly stamped onto products is making particularly rapid progress. For a variety of reasons, however, such as the fact that the surface on which the 2D codes are stamped lacks smoothness, conventional handheld readers have difficulty reading them with sufficient stability.

The V400-H Series was developed from the concept of creating a handheld reader that is capable of reading directly marked codes. It accurately reads 2D codes directly marked onto metallic or LCD panels, printed circuit boards, and other objects.



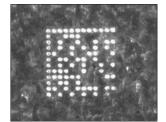
of Reading Directly Marked Codes

Stable Reading from a Wide Variety of Objects Patent pending

One of the industry's most advanced reading algorithms combines with an optical system that is highly suited to direct marking applications, to deliver highly accurate reading capabilities. The Reader is also equipped with its own coaxial illumination and oblique illumination. The illumination is automatically switched to match the object being read, enabling superior reading of 2D codes marked onto materials with different reflection factors.



Metal (treated surface)



Metal (casting surface)



Glass wafer



Printed circuit board

Bringing Greater Visibility to 2D Code Reading

- The LCD monitor lets you confirm the position of the 2D code, then displays the reading results and image.
- Using the detachable Contactor greatly simplifies positioning.



Designed for Easy Use on Production Lines

Read Data Is Stored onto an SD Memory Card



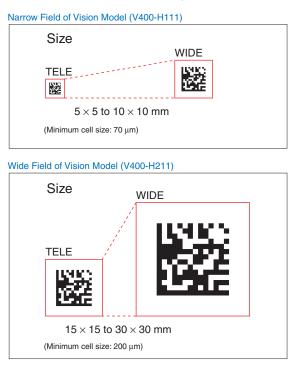
Two Cable Lengths Available: 2 Meters and 5 Meters

AC Adaptor Also Available

Select either a 5-VDC Power Supply or an AC Adaptor to match the conditions of use. (Each uses a different cable model.)

Variable Field of Vision

The zoom lever lets you easily change the field of vision to match the size of the code being read.

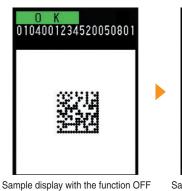




Display Customizing Function

The 2D code data that is read can be displayed on the LCD as a previously registered text string.*

* Special software is available for set-up. See the operation manual for details.



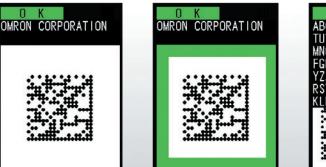
Patent pending



with the function OFF Sample display with the function ON

Versatile LCD Display Patterns

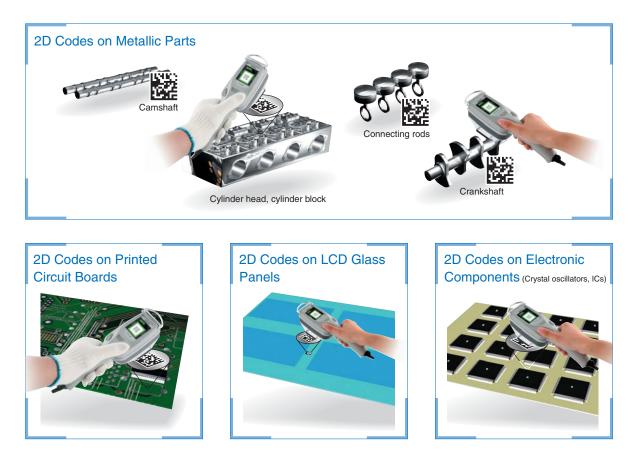
The reading results can be displayed in four patterns to match your application.





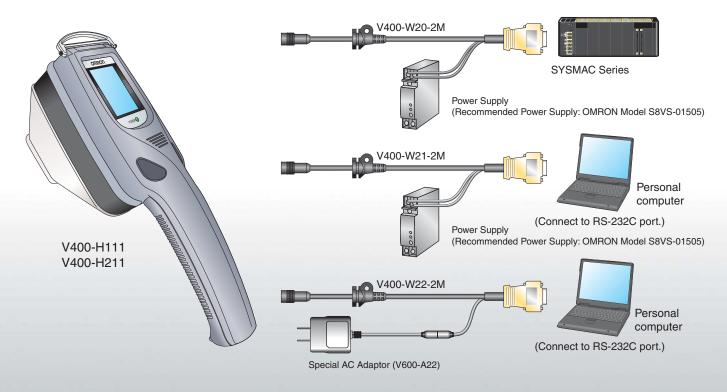


Examples of Typical Applications



System Configuration

The Code Reader can be connected with other equipment via RS232C.



Ordering Information

Main Unit

Name	Model	Specifications		Demortice
Name		Communications interface	Field of vision	Remarks
2D Code Reader	V400-H111	RS-232C	5×5 to 10×10 mm	
	V400-H211	RS-232C	15×15 to 30×30 mm	

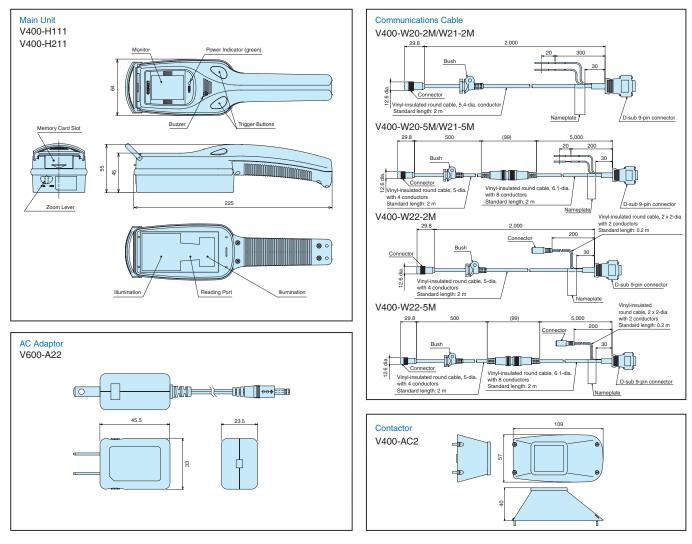
Accessories (Purchase separately)

Name	Model	Cable length	Remarks	
Contactor	V400-AC2		Contactor for positioning (detachable)	
Communications Cable	V400-W20-2M		For SYSMAC Series connection	
	V400-W20-5M	5 m	(with power cord)	
	V400-W21-2M		For PC-compatible connection	
	V400-W21-5M	5 m	(with power cord)	
	V400-W22-2M		For PC-compatible connection	
	V400-W22-5M	5 m	(when using AC Adaptor)	
AC Adaptor	V600-A22			

Ratings and Specifications

Item	V400-H111	V400-H211	
Field of vision	5 × 5 to 10 × 10 mm	15 × 15 to 30 × 30 mm	
Cell size	0.08 to 0.2 mm	0.2 to 0.65 mm	
Code size	0.8×0.8 to 5×5 mm	2.0×2.0 to 15×15 mm	
Working distance	40 mm (flush when Contactor is mounted)		
Power supply	5 VDC ±10%		
Current consumption	1.0 A max.		
Serial interface	RS-232C		
Applicable codes	Data Matrix, ECC200, 10 × 10 to 64 × 64, 8 × 18 to 16 × 48, QR Code (Models 1, 2), 21 × 21 to 57 × 57 (Versions 1 to 10)		
Operation method	Pressing the trigger button		
Settings	Make settings by using the manual setting window, uploading from an SD Memory Card, or by using Support Software.		
Memory card	SD Memory Card		
Monitor	1.8-inch TFT LCD, displaying images and read data		
Display illumination	Operation display, memory card access		
Ambient temperature	Operation: 0 to 40°C; storage: -25 to 60°C		
Ambient humidity	35 to 85% (with no condensation)		
Ambient conditions	No corrosive gases		
Vibration resistance	10 to 150 Hz, single amplitude 0.35 mm (50 m ² /s max. acceleration)		
Shock resistance	150 m²/s in ±X, Y, and Z directions, 3 times		
Weight	Approx. 230 g		
Degree of protection	IEC 60529 IP64		
Materials	Case: ABS; optical surface: PC; display surface: PMMA		

Dimensions (Unit: mm)



This document provides information mainly for selecting suitable models. Please refer to the User's Manual (Cat. No. Z228) for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

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OMRON Corporation Industrial Automation Company Tokyo, JAPAN Contact: www.ia.omron.com		Authorized Distributor:
Regional Headquarters OMRON EUROPE B.V. Sensor Business Unit Carl-Benz-Str. 4, D-71154 Nufringen, Germany Tel: (49) 7032-811-0/Fax: (49) 7032-811-199	OMRON ELECTRONICS LLC One Commerce Drive Schaumburg, IL 60173-5302 U.S.A. Tel: (1) 847-843-7900/Fax: (1) 847-843-7787	
OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711	OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200	© OMRON Corporation 2009 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice. CSM_1_3_1209 Cat. No. Q146-E1 Printed in