

**NO:** BC-014  
**DATE:** May 2016

**PRODUCT:** V520-RH Bar Code Reader  
**TYPE:** Discontinuation Notice

## V520-RH Hand-Held CCD Bar Code Reader Discontinued

**Discontinuation date: June 2016**

Note: Date is subject to change based on raw materials and components availability at the factory.



### Affected Parts

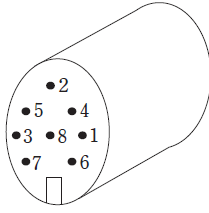
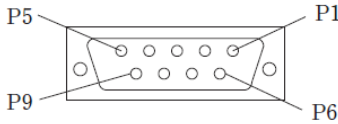
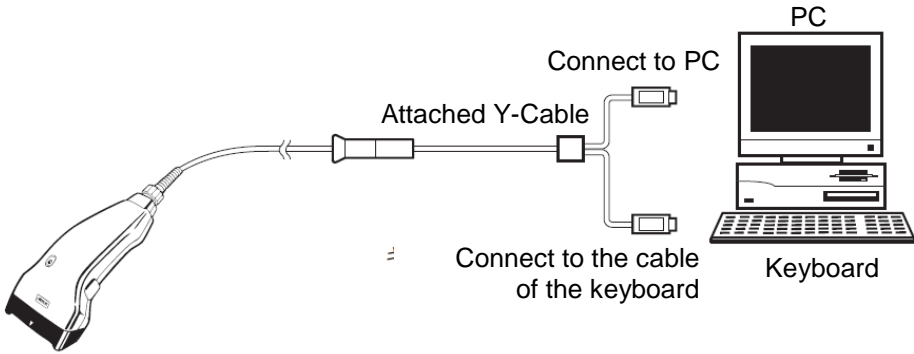
Product discontinuation	Recommended replacement
V520-RH21-6	No recommended replacement
V520-RH21-10	
V520-RH21-6-NS	
V520-RHK1-6D	
V520-RHK1-10D	

### Detail of Differences

#### Body Color

Product discontinuation Model V520-RH21-6/-10/-6-NS Model V520-RHK1-6D/-10D	Recommended replacement No recommended replacement

## Wire Connection

<b>Product discontinuation</b> <b>Model V520-RH21-6/-10/-6-NS</b> <b>Model V520-RHK1-6D/10D</b>			<b>Recommended replacement</b> <b>No recommended replacement</b>
<b>Model V520-RH21-6/-10 RS-232C Interface-type DIN:8P Plug</b>			
Pin	Signal	Name	
1	SD (TXD)	Transmit Data	
2	RD (RXD)	Receive Data	
3	RS (RTS)	Request to send	
4	CS (CTS)	Clear to send	
5	—	Non connected	
6	ER (DTR)	Data terminal ready	
7	SG	Signal ground	
8	+5V	Power source	
<b>Model V520-RH21-6-NS RS-232C Interface-type D-sub:9PIN</b>			
Pin	Signal	Name	
1	—	Non connected	
2	RD (RXD)	Receive Data	
3	SD (TXD)	Transmit Data	
4	CS (CTS)	Clear to send	
5	RS (RTS)	Request to send	
6	+5V	Power source	
7	—	Non connected	
8	—	Non connected	
9	SG	Signal ground	
<b>Model V520-RHK1-6D/10D OADG(DOS/V) Keyboard interface type</b> Please connect to PC using the attached Y-Cable.			
			

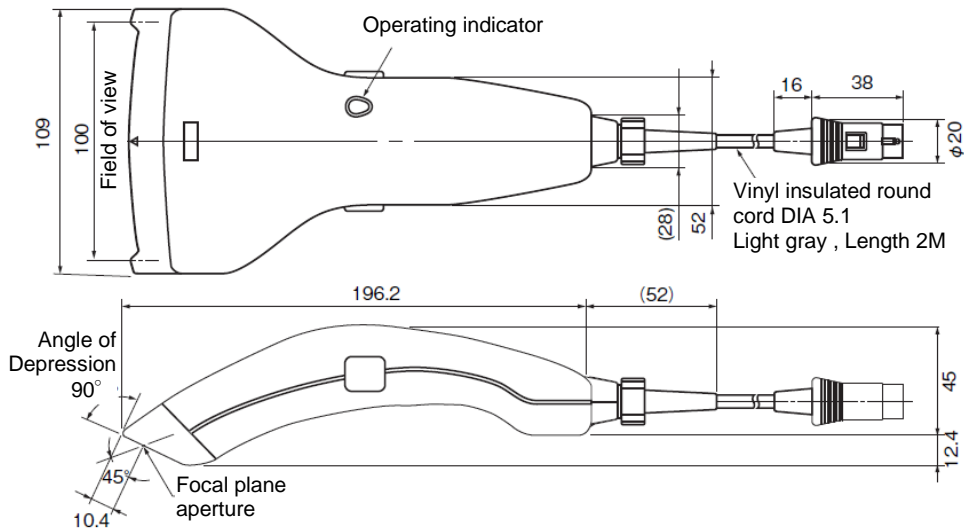
# Dimensions

<p align="center"><b>Product discontinuation</b>  <b>Model V520-RH21-6, V520-RH21-6-NS, V520-RHK1-6D</b></p>	<p align="center"><b>Recommended replacement</b>  <b>No recommended replacement</b></p>
<p><b>Model V520-RH21-6, Model V520-RHK1-6D</b>            Operating indicator</p> <p>Vinyl insulated round cord DIA 5.1            Light gray , Length 2M</p> <p><b>Model V520-RH21-6-NS</b>            Operating indicator</p> <p>Vinyl insulated round cord DIA 5.1            Light gray, Length 3M</p> <p>Connect to Host (D-Sub 9Pin)</p>	

**Product discontinuation**  
**Model V520-RH21-10, V520-RHK1-10D**

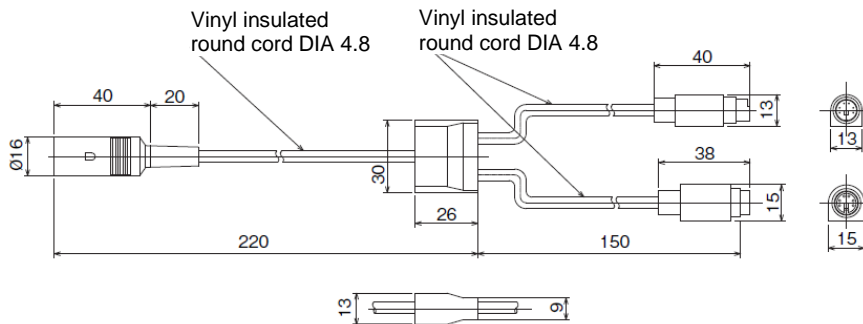
**Recommended replacement**  
**No recommended replacement**

**Model V520-RH21-10, V520-RHK1-10D**



**Attached Y-Cable (OADG Keyboard Interface Type)**

This cable is attached to Model V520-RHK1-6D/10D.



## Characteristics

### 1) RS-232C Interface type : Model V520-RH21-6/-6-NS/-10

Item	Product discontinuation			Recommended replacement No recommended replacement
	Model V520-RH21-6	Model V520-RH21-6-NS	Model V520-RH21-10	
Decodable codes type	JAN/EAN/UPC-A,E, Code39, NW7, ITF, Code93, Code128, EAN128 STF (2 of 5 bar)			
Readable digits	JAN/EAN: 8, 13 digits. UPC: 7, 12 digits. Other Code: 1 to 50 digits. ("START" and "STOP" are not included.) ITF: 4 to 50 digits (Even) STF: over than 3 digits. (*1)			
Resolution	0.15mm	(*2)	0.15mm	
Reading depth	0 to 10mm (*3)			
Barcode length	65mm		100mm	
PCS	0.3 min. (reflectance of white background: 85%min) (*4)			
Light source	LED			
Decoder	Built-in (Auto-decode)			
Scanning rate	80 scan/sec			
Number of coincidence	2 times			
Method for Reading result	Buzzer sound and Indicator LED			
Interface	RS-232C Connector DIN 8PIN	RS-232C Connector D-sub 9PIN	RS-232C Connector DIN 8PIN	
Method for settings	Menu-Sheet			
Supply voltage	5 VDC $\pm$ 5% (*5)			
Current consumption	210 mA max. (Peak current) (*6)		250 mA max. (Peak current) (*7)	
Weight	160 g max. (without Cable)		200 g max. (without Cable)	
Vibration resistance	20 m/s <sup>2</sup> max. (10 to 55 Hz) X, Y and Z directions each 1 hour			
Ambient illumination	6000lx max. (Except inverted fluorescent light)			
Ambient temperature	0 to 40 °C (with no condensation)			
Ambient humidity	30 to 85 %RH (with no condensation)			
Storage temperature	-20 to +60°C			
Storage humidity	30 to 85 %RH (with no condensation)			

\*1) The digit depends on the width of bar-code and reading size.

\*2) Label with narrow bar width 0.15mm must be set the middle area within 50mm. (when using the standard label).

\*3) It is defined by standard label; JAN1.0 13digits.

(PCS 0.9 min. white background: 85 %min. The error for printing is not included to the width of barcode.)

\*4) It is defined by JAN 1.0 and white background: 85 %min.

\*5) It is defined by I/O connector.

\*6) Peak current means the max current when the LED lights. The average current is approx. 70 mA.

\*7) Peak current means the max current when the LED lights. The average current is approx. 100 mA.

The label with JAN 1.0, PCS 0.9min. and white background 85% min. is used in reading depth : 0 mm and the error angle : None, when the condition is not defined.

## 2) Keyboard Interface type : Model V520-RHK1-6D/10D

Item	Product discontinuation		Recommended replacement No recommended replacement
	Model V520-RHK1-6D	Model V520-RHK1-10D	
Decodable codes type	JAN/EAN/UPC-A,E, Code39, NW7, ITF, Code93, Code128, EAN128 STF (2 of 5 5bar)		
Readable digits	JAN/EAN: 8, 13 digits. UPC: 7, 12 digits. Other Code: 1 to 50 digits. ("START" and "STOP" are not included.) ITF: 4 to 50 digits (Even) STF: over than 3 digits. (*1)		
Resolution	0.15mm (*2)	0.15mm	
Reading depth	0 to 10mm (*3)		
Barcode length	65mm	100mm	
PCS	0.3 min. (reflectance of white background: 85%min) (*4)		
Light source	LED		
Decoder	Built-in (Auto-decode)		
Scanning rate	80 scan/sec		
Number of coincidence	2 times		
Method for Reading result	Busser sound and Indicator LED		
Interface	DIN 8PIN. Keyboard I/F of OADG(DOS/V) Personal Computer		
Method for settings	Menu-Sheet		
Supply voltage	5 VDC ±5% (*5)		
Current consumption	210 mA max. (Peak current) (*6)	250 mA max. (Peak current) (*7)	
Weight	160 g max. (without Cable)	200 g max. (without Cable)	
Vibration resistance	20 m/s <sup>2</sup> max. (10 to 55 Hz) X, Y and Z directions each 1 hour		
Ambient illumination	6000lx max. (Except inverted fluorescent light)		
Ambient temperature	0 to 40 °C (with no condensation)		
Ambient humidity	30 to 85 %RH (with no condensation)		
Storage temperature	-20 to +60°C		
Storage humidity	30 to 85 %RH (with no condensation)		

\*1) The digit depends on the width of bar-code and reading size.

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\*5) It is defined by I/O connector.

\*6) Peak current means the max current when the LED lights. The average current is approx. 70mA.

\*7) Peak current means the max current when the LED lights. The average current is approx. 100mA.

The label with JAN:1.0, PCS:0.9min. and white background:85% min. is used in reading depth:0 mm and the error angle: None, when the condition is not defined.

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.