## Code Handheld Barcode Scanners code



### Advanced, cost-effective barcode readers

The Code Reader™ line of advanced barcode readers have been designed to provide reliable data capture in a variety of settings, while maintaining an ergonomic, lightweight form factor. Code has developed the world's best image capture by using a powerful vision sensor and built-in lighting to reliably capture the barcode while not relying on external light sources.

In addition to leading-edge technical capabilities, all Code handheld barcode scanners feature housings made from specially engineered CodeShield<sup>™</sup> plastics. These case materials are designed to provide superior, long-term protection against most commonly used chemicals and chemical disinfectants without damage to the housing.



1-800-633-0405

The Code Reader<sup>™</sup> 950 (CR950) is an aggressive barcode reader that rapidly decodes 1D and 2D barcodes. Its lightweight, ergonomic design makes it comfortable to use over long shifts, and unmatched durability makes it an investment that will last.



The Code Reader<sup>™</sup> 1500 (CR1500) is a compact tethered barcode reader that features a high-performance scan engine, patented dual-field optical platform, and intuitive targeting that makes reading 1D, 2D, and postal bar codes extremely fast and reliable.



The Code Reader<sup>™</sup> 6022 (CR6022) is an industrial grade direct part mark (DPM) imager designed to read barcodes of every sort. The CR6022 effortlessly reads laser-etched, embossed, dot peen and low-contrast barcodes and easily decodes dense and extremely small barcodes.



CR5210

The Code Reader<sup>™</sup> 5210 (CR5210) is designed for use in fast-paced environments and handles data from 1D, 2D and postal barcodes with speed and accuracy. The tabletop design allows for hands-free operation or optional trigger reading of large, heavy or bulky items.



**CR1100** 

The Code Reader<sup>™</sup> 1100 (CR1100) is a compact, corded barcode reader that takes up limited workspace without compromising barcode reading performance. The patented dual-field optical platform of the CR1100 allows users to quickly scan both wide 1D barcodes and small dense 2D barcodes.



CR2701 / CR2702

The Code Reader<sup>™</sup> 2700 (CR2701/CR2702) is Code's fourth-generation (Bluetooth 5) barcode scanner, combining nearly 20 years of market experience with new features to improve workflow in any setting. Code has taken their unparalleled scanning performance and stepped it up a notch, tackling even more damaged or poorly-printed barcodes to keep your business moving.

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### **CR6022 Advanced Cost-Effective Barcode Scanner**



The Code Reader<sup>™</sup> 6022 (CR6022) is a versatile barcode reader that is easy to set up and use in a variety of different settings. It is available with either USB or RS-232 communication capabilities. The USB version can connect to the **C-more** HMI. AutomationDirect provides sample code which can be used to connect the reader to Click, BRX, and Productivity PLCs.

#### **Features**

- Reads laser-etched and dot peen markings.
- Reads color and low-contrast barcodes.
- IP54 housing protects against dust and debris.
- Small form factor for operator comfort.
- Integrated metal hook holder for ease of placement and retrieval.
- User feedback with programmable LED, audible tone and vibrating good read indicators.
- Operates hands-free or handheld.
- Optional stand (sold separately).

Code Handheld Barcode Reader – Selection Chart							
Part Number Price Description		Communication Protocol	Corded/ Cordless	Form Factor	Weight (lb [kg])	Drawing	
<u>CR6022-C500-C298</u>	Retired	Code barcode scanner, 6ft [1.83 m] USB cable included.	USB	Corded	Handheld	0.35 [0.16]	PDF
<u>CR6022-C502-C298</u>	Retired	Code barcode scanner, 6ft [1.83 m] RS-232 (DB9) cable and power supply included.	RS-232	Corded	Handheld	0.35 [0.16]	PDF

### Code Handheld Barcode Scanners Typical Working Range (in [mm])

Size and Type of Barcode (in [mm])	CR6022-C50x-C298				
Size allu Type of Dalcoue (III [IIIIII])	Min	Мах			
3 mil Code 39	1 [25]	2 [50]			
7.5 mil Code 39	0.8 [20]	5.9 [150]			
10.5 mil GS1 DataBar	0 [0]	5.9 [150]			
5.8 mil PDF417	_	_			
6.7 mil PDF417	-	-			
13 mil UPC	0.6 [15]	7.9 [200]			
4.2 mil Data Matrix	0.6 [15]	1.8 [45]			
5 mil Data Matrix	0.6 [15]	2.4 [60]			
6.3 mil Data Matrix	0.2 [5]	3 [75]			
10 mil Data Matrix	0 [0]	3.9 [100]			
20.8 mil Data Matrix	0.4 [10]	7.5 [190]			
Low Contrast Data Matrix DPM					
Laser Marks	0 [0]	1.4 [35]			
Dot Peen Marks	0 [0]	2.8 [70]			

**Note:** Working ranges may vary depending on barcode quality and reading environment. The above numbers are a combination of both the wide and high density fields. All samples were high quality barcodes and were read along a physical center line at a 10 degree angle. Distances are measured from the front of the reader. Default automatic gain control settings were used with regular office lighting. Accuracy = +/- 10%. Test conditions may affect working ranges.

#### **Code Handheld Barcode Scanners Specifications**

	CR6022-C50x-C298			
Power Requirements	5VDC (USB versions are powered from the host device) (RS232 versions utilize a 120VAC-to-5VDC power adapter)			
Sensor	CMOS 1.2 megapixel monochrome			
<b>Operating Temperature</b>	-20 to 55°C [-4 to 131°F]			
Storage Temperature	-30 to 65°C [-22 to 150°F]			
Humidity	5% to 95% non-condensing			
Field Selection	High Density (used for small/dense barcodes) and Wide Field (used for long barcodes)			
Field of View	30° horizontal by 33.5° vertical			
Focal Point	~50mm [1.97 in]			
Optical Resolution	High Density: 960 x 640 Wide Field: 960 x 640			
Pitch	$\pm$ 65° (from front to back) (varies with DPM)			
Skew	$\pm$ 60° from plane parallel to symbol (side to side)			
Rotational Tolerance	±180°			
Symbol Contrast	15% minimum reflectance difference			
Target Beam	Single, blue targeting bar			
Ambient Light Immunity	Sunlight: Up to 9,000 ft candles			
Shock	Withstands multiple drops of 6ft [1.8 m] to concrete			
IP Rating	IP54			
Agency Approval	CE			

# 1-800-633-0405 For the latest prices, please check AutomationDirect.com.

	Code Hand	held Barcoo	le Scanners	Decode Ca	apability		
	Decode Capability	CR950	CR1100	CR1500	CR5210	CR270x	CR6022
	BC412	√	√	√	√	√	<b>√</b>
-	Codabar	√	√	√	√	√	√
	Code 11	√	√	~	√	√	√
	Code 32	√	√	~	√	√	<b>√</b>
	Code 39	√	√	~	√	√	√
	Code 39 Extended	_	√	_	_	_	√
	Code 93	√	√	~	√	√	√
	Code 128	✓	√	~	√	√	√
-	GS1 Databar	√	√	~	√	√	√
-	Hong Kong 2 of 5	√	√	~	√	√	√
1D	IATA 2 of 5	1	√	~	√	√	√
-	Interleaved 2 of 5	√	1	1	√	√	√
-	Matrix 2 of 5	√	1	1	√	√	√
-	MSI Plessey	√	√	√	√	 √	 √
-	NEC 2 of 5	√	√	√	√	√	√
-	Pharmacode	_	√	√	√ 	√ 	√
_	Straight 2 of 5	√	√	√	√ 	 √	√
	Telepen	√	√	√	√ 	√ 	√
-	Trioptic	√	√	√	√	√	√
-	UK Plessey	· √	√	√	√ 	√ 	· √
-	UPC/EAN/JAN	√	 √	√	√ 	√ 	· √
	Codablock F		· · · · · · · · · · · · · · · · · · ·	√	√ 	√ 	√
-	Code 49	_	√	√	√ 	 √	· √
-	GS1 Composite (CC-A/CC-B/CC-C)	√	√	√	√ 	√ 	√
Stacked 1D	GS1 DataBar Expanded Stack	√	√	_	_	-	· √
-	MicroPDF	· · · · · · · · · · · · · · · · · · ·	√	√	√	√	· √
-	PDF417	✓ ✓	✓ ✓	√ √	✓ ✓	✓ ✓	✓ ✓
	Aztec Code	✓ ✓	✓ ✓	√ √	✓ ✓	✓ ✓	✓ ✓
-	Data Matrix	✓ ✓	↓ ↓	√ √	✓ ✓	✓ ✓	✓ ✓
-	Grid Matrix	_	↓ ↓	√ 	√ √	√ √	√ 
-	HanXin		✓ ✓	√	✓ ✓	✓ ✓	✓ ✓
2D	Maxicode	_	↓ ↓	√	√ 	√ √	√ 
-	Micro QR Code	√	✓ ✓	√	✓ ✓	✓ ✓	✓ ✓
-	QR Code	✓ ✓	✓ ✓	√	✓ ✓	✓ ✓	✓ ✓
-	QR Model 1	-	✓ ✓	√	✓ ✓	✓ ✓	✓ ✓
	Australian Post	_	✓ ✓	√	✓ ✓	✓ ✓	✓ ✓
Postal Codes	Canada Post		✓ ✓	√	✓ ✓	✓ ✓	✓ ✓
	Japan Post	_	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
	KIX Code	_	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
	Korea Poast		✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
	UK Royal Mail		✓ ✓	√ √	✓ ✓	✓ ✓	✓ ✓
	UPU ID Tags	-	✓ ✓	✓ ✓	✓ ✓	✓ ✓	√ √
	USPS Intelligent Mail	-	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
		-					
	USPS Planet	-	√ √	1	√ √	√ √	√ √
	USPS Post-net	-	√	√	$\checkmark$	√	√

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## Code Handheld Barcode Scanners code



Code Handheld Barcode Reader Accessories							
Part Number	Price	Description	Weight (lb [kg])	Drawing			
CRA-C503-C298	\$38.50	8ft coiled RS232 cable with power supply	0.40 [0.18]	N/A			
<u>CRA-A274-P1-C298</u>	\$108.00	Quad bay battery charger	0.67 [0.30]	N/A			
<u>CRA-B27DK-C298</u>	\$75.00	Battery for CR270x	0.10 [0.05]	N/A			
<u>CRA-C34-C298</u>	\$15.00	3ft straight USB cable (USB-A to micro USB)	0.09 [0.04]	N/A			
<u>CRA-C500-C298</u>	\$14.50	6ft straight USB cable	0.15 [0.07]	N/A			
<u>CRA-C501-C298</u>	\$14.50	8ft coiled RS232 cable	0.35 [0.16]	N/A			
<u>CRA-C502-C298</u>	\$14.50	6ft straight RS232 cable	0.20 [0.09]	N/A			
<u>CRA-C508-C298</u>	\$14.50	8ft coiled USB cable	0.25 [0.11]	N/A			
<u>CRA-C519-C298</u>	\$14.50	6ft straight DB9-RJ12 RS232 cable	0.20 [0.09]	N/A			
CRA-US3-C298	\$26.00	Flexible stand for CR950, CR1100 in dark gray	0.85 [0.39]	PDF			
<u>CRA-US4-C298</u>	\$38.50	Flexible stand for CR6022 in dark gray	0.85 [0.39]	PDF			
<u>CRA-US9-C298</u>	\$17.50	Rigid stand for CR950, CR1100 in dark gray	0.20 [0.09]	PDF			
<u>CR2AG-P1-C298</u>	\$26.00	Power supply for RS232 readers	0.10 [0.05]	N/A			

## **RS232** Accessories









CRA-C519-C298



CRA-C501-C298

CRA-C502-C298

CR2AG-P1-C298

CRA-C503-C298

**USB** Cables



CRA-C500-C298



CRA-C508-C298



CRA-C34-C298



**CRA-US4-C298** 





**CRA-US3-C298** 



CRA-US9-C298





CRA-B27DK-C298

CRA-A274-P1-C298

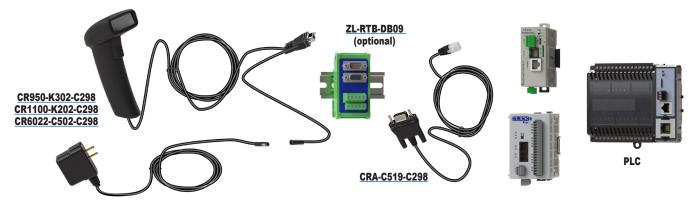
#### 1-800-633-0405

## Code Handheld Barcode Scanners code

Compatibility							
Scanner	C-more EA9	C-more CM5	Productivity PLC	CLICK PLC	BRX PLC		
<u>CR950-K301-C298</u>	Yes, with powered USB hub	Yes	No	No	No		
<u>CR950-K302-C298</u>	No	No	Yes	Yes	Yes		
<u>CR1100-K201-C298</u>	Yes, with powered USB hub	Yes	No	No	No		
<u>CR1100-K202-C298</u>	No	No	Yes	Yes	Yes		
<u>CR1500-K201-C298</u>	Yes, with powered USB hub	Yes	No	No	No		
<u>CR1500-K202-C298</u>	No	No	Yes	Yes	Yes		
CR5210-C502-C298	No	No	Yes	Yes	Yes		
CR5210-C500-C298	Yes, with powered USB hub	Yes	No	No	No		
CR2701-200-C298	Yes**	Yes**	No	No	No		
CR2702-200-C298	Yes**	Yes**	No	No	No		
CR6022-C500-C298	No	No	No	No	No		
<u>CR6022-C502-C298</u>	No	No	Yes	Yes	Yes		

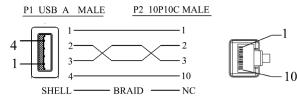
\*\* Please note that although the CR270x will work with the HMI, the HMI will not provide enough current to charge the scanner. However, the scanner battery can always be charged using an external charger such as the <u>CRA-A274-P1-C298 quad bay battery charger</u>.

## System Assembly Options

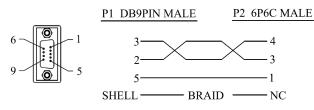


## **Connection Diagrams**

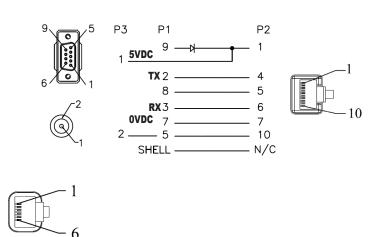
#### USB Connections (CRA-C500-C298, <u>CRA-C508-C298</u>)



#### DB9 to RJ12 (CRA-C519-C298)



#### RS232 Connections (CRA-C501-C298, CRA-C502-C298)



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