

# CODE READER™ 900FD



## Features & Benefits

- High speed, omnidirectional reading of 1D and 2D barcode symbologies
- Wide area image sensor
- Manual or automatic triggering
- User feedback with LED and audible tone
- All-inclusive kits include reader, cable and stand
- Reads barcodes on mobile device screens
- Customizable Driver License parsing
- Uses Code's rapid disconnect Affinity® cables
- Efficient power consumption
- IP54 housing



Comes with  
Universal Stand

## The future-proof investment.

The CR900FD is an area imaging barcode reader with flexible decoding capabilities. The result? An aggressive barcode reader that out of the box rapidly decodes 1D barcodes and gives users the option of selecting a 2D symbology of their choice. Want to change the selected 2D symbology? Not a problem. The CR900FD can be upgraded intelligently, flexibly and even affordably (think linear scanner price) for users wanting to read a complete suite of 2D symbologies.

## The CR900FD's versatility and value don't stop there.

This easy-to-use, durable barcode reader outperforms single-line laser scanners and linear imagers with full omnidirectional barcode reading. Combined with its programming versatility, the CR900FD quickly and reliably transmits barcoded data into any enterprise solution.

Driver license parsing applications speed up in-store credit applications and loyalty form processes, while reliable barcode reading from mobile device screens maximizes its productivity in retail environments.

The CR900FD thrives in fast-paced environments, and will seamlessly transition from in-stand to out-of-stand reading. For increased efficiency users can select from continuous scan or motion detection barcode reading modes.

A forward-functioning, flexible device, the CR900FD is an unbeatable addition to your growing operation.

## Applications

Retail point-of-sale,  
manufacturing,  
work-in-process,  
document processing

## Features at a Glance



# CODE READER™ 900FD SPECIFICATIONS

## Physical Characteristics

<b>CR900FD Dimensions</b>	5.5" H x 2.75" L x 2.0" W (140 mm H x 70 mm L x 50 mm W)
<b>CR900FD Weight</b>	3.9 oz (110 g)
<b>IP Rating</b>	54

## User Environment

<b>Operating Temperature</b>	-20° to 55° C / -4° to 131° F
<b>Storage Temperature</b>	-30° to 65° C / -22° to 150° F
<b>Humidity</b>	5% to 95% non-condensing
<b>Decode Capability</b>	<p><b>1D:</b> Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, IATA 2 of 5, Interleaved 2 of 5, GS1 DataBar (RSS), Hong Kong 2 of 5, Matrix 2 of 5, MSI Plessey, NEC 2 of 5, Pharmacode, Plessey, Straight 2 of 5, Telepen, Trioptic, UPC/EAN/JAN</p> <p><b>Stacked 1D:</b> GS1 Composite (CC-A/CC-B/CC-C), MicroPDF, PDF417</p> <p><b>2D:</b> Aztec Code, Code 49, Codablock F, Data Matrix, Han Xin, MaxiCode, Micro QR, QR Code</p> <p><b>Proprietary 2D:</b> GoCode® (Additional License Required)</p>
<b>Image Output Options</b>	Formats: Bitmap or JPEG
<b>Field Selection</b>	Wide Field
<b>Data Editing</b>	JavaScript (Additional License Required)

## Working Ranges

CR900FD Performance

Test Barcode	Min Inches (mm)	Max Inches (mm)
4 mil Code 39	1.6" (40 mm)	3.1" (78 mm)
7.5 mil Code 39	1.3" (34 mm)	7.2" (182 mm)
9.5 mil Code 128	0.6" (15 mm)	8.3" (212 mm)
10.5 mil UPC	0.8" (20 mm)	9.0" (228 mm)
13 mil UPC	1.1" (28 mm)	11.0" (280 mm)
5 mil DM	1.7" (43 mm)	3.0" (76 mm)
6.3 mil DM	1.3" (33 mm)	4.1" (104 mm)
10 mil DM	0.8" (20 mm)	6.5" (165 mm)
20.8 mil DM	1.1" (28 mm)	13.5" (343 mm)

Note: All samples were high quality barcodes and were read along a physical center line at a 10° angle. Default AGC settings were used.

## Performance Characteristics

<b>Field of View</b>	Wide Field: 50° horizontal by 33.5° vertical
<b>Focal Point</b>	Approximately 100 mm
<b>Sensor</b>	CMOS gray scale
<b>Optical Resolution</b>	Wide Field: 960 x 640 pixels
<b>Pitch</b>	± 60° (from front to back)
<b>Skew</b>	± 60° from plane parallel to symbol (side-to-side)
<b>Rotational Tolerance</b>	± 180°
<b>Print Contrast</b>	25% absolute dark/light reflectance differential, measured at 650 nm
<b>Target Beam</b>	Single, blue targeting bar
<b>Ambient Light Immunity</b>	Sunlight: Up to 9,000ft-candles/96,890 lux
<b>Shock</b>	Withstands multiple drops of 6' (1.8 Meters) to concrete
<b>Power Requirements</b>	Reader @ 5vdc (mA): Typical = less than 450 mA; Idle = less than 80 mA; Sleep = less than 31 mA
<b>Memory Capacity</b>	128MB Flash ROM, 32MB RAM
<b>Communication Interfaces</b>	RS232, USB 2.0 (Generic HID, HID Keyboard, Virtual COM Port)
<b>Warranty*</b>	5 Years

## Accessories

- Various Cable Options Available. Visit [www.codecorp.com/cables.php](http://www.codecorp.com/cables.php) for a list of compatible cables
- Stand



**code**  
ADVANCED BARCODE READERS

[www.codecorp.com](http://www.codecorp.com)

\* Warranty period is specific to North America and EMEA.