

CODE READER™ 900FD



Features & Benefits

- High speed, omnidirectional imaging of 1D bar code symbologies
- Upgradeability to stacked bar codes and 2D bar code reading with the purchase of a license key
- Wide area image sensor
- Manual or automatic triggering
- User feedback with LED and audible tone
- All-inclusive kits include reader, cable and stand
- Reads bar codes on mobile device screens
- 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 bar code reader with flexible decoding capabilities. The result? An aggressive bar code reader that out of the box rapidly decodes 1D bar codes and can be upgraded to read a single 2D symbology—or a suite of 2D symbologies. And you can do so affordably, intelligently and flexibly (think linear scanner price) with the purchase of a license key.

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

Designed with an auto-detect stand mode, the CR900FD seamlessly transitions from in-stand to out-of-stand reading. It outperforms single line laser scanners and linear imagers with full omnidirectional bar code reading. And it features two feedback indicators: LED and audible tone, so users are always aware a 'good read' occurred.

The programming versatility of the CR900FD allows it to be quickly integrated into enterprise solutions to speed up workflow processes, including populating loyalty program forms, in-store credit applications and more, with our driver license parsing applications.

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



*with the purchase of a license key

CODE READER™ 900FD SPECIFICATIONS

Physical Characteristics

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

User Environment

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

Working Ranges

CR900FD Performance		
Test Code	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)
4.2 mil DM*	1.9" (48 mm)	2.6" (66 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 codes and were read along a physical center line at a 10° angle. Default AGC settings were used.

*Data Matrix is used for configuration codes on the CR900FD, however additional licensing is required to enable full Data Matrix reading. Expect other 2D symbologies to perform similarly to Data Matrix.

Performance Characteristics

Field of View	Wide Field: 50° horizontal by 33.5° vertical
Focal Point	Approximately 100 mm
Sensor	CMOS gray scale
Optical Resolution	Wide Field: 960 x 640 pixels
Pitch	± 60° (from front to back)
Skew	± 60° from plane parallel to symbol (side-to-side)
Rotational Tolerance	± 180°
Print Contrast Res.	25% (1D symbologies) or 35% (2D symbologies) absolute dark/light reflectance differential, measured at 650 nm
Target Beam	Single, blue targeting bar
Ambient Light Immunity	Sunlight: Up to 9,000ft-candles/96,890 lux
Shock	Withstands multiple drops of 6' (1.8 Meters) to concrete
Power Requirements	Reader @ 5vdc (mA): Typical = less than 450 mA; Idle = less than 80 mA; Sleep = less than 31 mA
Memory Capacity	128MB Flash ROM, 32MB RAM
Communication Interfaces	RS232, USB 2.0 (Generic HID, HID Keyboard, Virtual Com Port)
Product Warranty	5 Years

Accessories

- Various Cable Options Available.
Visit www.codecorp.com/cables.php
for a list of compatible cables
- Universal Stand



code
ADVANCED BAR CODE READERS

Phone: (801) 495-2200
Web: www.codecorp.com