



## CODE READER™ 6000

### Read barcodes of all shapes and sizes.

Not all barcodes are created equal. Enter the CR6000, an industrial grade direct part mark (DPM) imager designed to scan barcodes of every sort. The CR6000 effortlessly reads laser-etched, embossed, dot peen, low-contrast, and postal barcodes. It easily decodes dense and extremely small barcodes. Designed with multiple illumination fields, the CR6000 intuitively selects the field that is most efficient at reading each barcode type. This results in quick and accurate data collection from hard-to-read surfaces, damaged barcodes, and those that are smudged, dirty, or even caked with debris. This makes the CR6000 ideal for component tracking on assembly lines and other manufacturing applications.

#### Features & Benefits

- Reads laser-etched and dot peen markings
- Reads color and low-contrast barcodes
- IP54 housing securely protects against dust and debris
- Small form factor for operator comfort
- Integrated metal clip or 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
- Compatible with Code's CortexTools® software configuration utility
- Data editing and parsing with JavaScript
- Optional stand



### In tough environments, a tool you can rely on.

Versatile and efficient, the CR6000 is an essential tool for high-traffic manufacturing operations with less-than-ideal environmental factors. With a durable, easy-to-clean plastic housing that protects against dust and dirt, the CR6000 is built to last with unrivaled performance and quality.

#### Applications

Manufacturing, automotive, heavy equipment, aerospace, and healthcare

#### Features at a Glance



# CODE READER™ 6000 SPECIFICATIONS

## Physical Characteristics

<b>CR6000 Dimensions</b>	5.95" H x 3.67" L x 2.08" W (151 mm H x 93 mm L x 53 mm W)
<b>CR6000 Weight</b>	4.6 oz. (130 g)
<b>Color Option</b>	Dark gray
<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>Direct Part Marks:</b> Barcodes applied by laser or chemical etching, or inkjet printed. Will also read Data Matrix marks that have been dot peened to a surface.</p> <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>Postal Codes:</b> Australian Post, Intelligent Mail, Japan Post, KIX Code, PLANET, POSTNET, UK Royal Mail</p> <p><b>Proprietary 2D:</b> GoCode® (Additional License Required)</p>
<b>Image Output Options</b>	Formats: JPEG or PGM
<b>Field Selection</b>	Double wide field for contrast maximization
<b>Data Editing</b>	JavaScript

## Working Ranges

### CR6000 High Contrast Label and DPM Performance

Test Barcode	Min Inches (mm)	Max Inches (mm)
3 mil Code 39	1.0" (25 mm)	2.0" (50 mm)
7.5 mil Code 39	0.8" (20 mm)	5.9" (150 mm)
10.5 mil GS1 DataBar	0" (0 mm)	5.9" (150 mm)
13 mil UPC	0.6" (15 mm)	7.9" (200 mm)
4.2 mil DM	0.6" (15 mm)	1.8" (45 mm)
5 mil DM	0.6" (15 mm)	2.4" (60 mm)
6.3 mil DM	0.2" (5 mm)	3.0" (75 mm)
10 mil DM	0" (0 mm)	3.9" (100 mm)
20.8 mil DM	0.4" (10 mm)	7.5" (190mm)

### CR6000 Low Contrast Data Matrix DPM Performance

Test Barcode	Min Inches (mm)	Max Inches (mm)
Laser Marks	0" (0 mm)	1.4" (35 mm)
Dot Peen Marks	0" (0 mm)	2.8" (70 mm)

Note: Working ranges may vary based on barcode quality and reading environment.

## Performance Characteristics

<b>Field of View</b>	50° horizontal by 33.5° vertical
<b>Focal Point</b>	Approximately 50 mm from the lens
<b>Sensor</b>	CMOS 1.2 Megapixel (1280 x 960) gray scale
<b>Optical Resolution</b>	960 x 640 per field
<b>Pitch</b>	± 60° (from front to back) for paper label, varies for DPM
<b>Illumination</b>	Diffuse bright field; dark field; direct bright field
<b>Skew</b>	± 60° from plane parallel to symbol (side-to-side) for paper label, varies for DPM
<b>Rotational Tolerance</b>	± 180° for paper label and DPM
<b>Print Contrast</b>	20% measured at 650 nm for paper label
<b>Target Beam</b>	Blue targeting bar
<b>Ambient Light Immunity</b>	Sunlight: Up to 9,000ft-candles/96,890 lux, paper label only
<b>Shock</b>	Withstands multiple drops of 6' (1.8 meters to concrete)
<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>	3 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

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

\*North America Warranty Period.