Code Reader 4100™ PDA

Features & Benefits

- Dual field optics, both high density and wide field in the same unit
- Reflection and glare reducing illumination technology
- Integrated 2D imaging engine
- Dedicated, high-speed microprocessor for decoding bar codes
- Windows® Mobile 6.5 Operating System
- Remote management ready
- QWERTY keypad
- Dark gray or healthcare white color options
- WiFi 802.11 a/b/g
- Bluetooth® 2.0 – Class II
- IP65 rated
- WWAN (HSDPA) (dark gray unit only)

| Imager | 1D | 2D | PDF | Postal | Bluetooth | WiFi | USB Interface | RS232 Interface | Memory | Screen & Keypad | WWAN |

Overview

Code's CR4100 is the perfect combination of a leading edge 2D optical bar code reading platform and a high performance mobile computer. The CR4100 is equipped with Code's patented dual field optics - giving you both wide field and high density fields in the same unit – along with reflection and glare reducing technology for reading bar codes on shiny surfaces. The combination of these two technologies gives the user unmatched read performance in healthcare, material handling, patrol vehicle and other challenging bar code reading applications.

For Healthcare applications, Code is offering a white, slim, disinfectant ready IP65 rated housing with full QWERTY keypad. In addition, a 3300 mA Li-ion battery provides up to 8 hours of uninterrupted operation before recharging is required. The PDA runs Windows® Mobile 6.5, making it compatible with the wide range of HIS software available today. For other applications, the durable, slim device is available in dark gray and IP65 rating.

Code's high performance bar code reading system with 1.2 Megapixel camera provides reliable, fast decoding of all 1D, GS1 Databar and 2D bar codes printed in standard sizes as well as very wide and very small bar codes, in one device eliminating the need to purchase two devices to handle all of your bar code reading requirements. In addition, the CR4100 has an on-board, high-speed microprocessor dedicated to recognizing and decoding bar codes thus ensuring high-speed and accurate bar code recognition right out of the box.

The light weight and ergonomic design reduce fatigue making the CR4100 ideal for applications in healthcare, patrol vehicles, mobile citation, mobile identification, warehouse, inventory control, back office, and more. Various wireless options are available including Bluetooth®, HSDPA, and 802.11 a/b/g.

Code Reader 4100™ Specifications

Physical Characteristics

Dimensions:	6.5" H x 3.1" W x 1.5" D
	(165.1 mm H x 78.7 mm W x 38.1 mm D)
Weight:	11.4 oz / 324 g (Including Battery)
Antenna:	Internal
Color Options:	Dark Gray or Healthcare White

PDA Characteristics

Operating System:	Windows® Mobile 6.5
CPU:	806 mHZ
Memory Capacity:	256MB Flash ROM, 256MB RAM
Expansion Slot:	MicroSD Slot
Display Resolution:	3.5", 240x320 TFT LCD (260,000 colors)
Keypad:	Full Qwerty Keypad
Audio Options:	Microphone, Stereo Jack
Battery:	Rechargeable Li-Ion 3300 mA/Hr
Communication Interfaces:	RS232, USB
WLAN:	802.11 a/b/g
WWAN: (grey only)	HSDPA/EDGE/GPRS/GSM
	(850/900/1800/1900/2100 MHZ)
Bluetooth:	V2.0, Class II

User Environment

Operating Temperature:	0° to 50° C / 32° to 122° F
Storage Temperature:	-20° to 65° C / -4° to 150° F
Humidity:	25% to 85% non-condensing
Shock:	Withstands multiple drops of 5' (1.5 Meters) to concrete
IP Rating:	65

Accessories

- Single Slot Desktop Charging Cradle
- Snap On Base

Bar Code Reader Characteristics

Field of View:	High Density Field: 30° horizontal by 20° vertical
	Wide Field: 50° horizontal by 33.5° vertical
Focal Point:	High Density Field: approximately 10 cm
	Wide Field: approximately 15 cm
Sensor:	CMOS 1.2 Megapixel
	(1280 x 960) gray scale
Optical Resolution:	High Density Field: 960 x 640
	Wide Field: 960 x 640
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
Decode Capability:	**1D:** UPC/EAN/JAN, Code 39, Code 128, Interleaved 2 of 5, Codabar, GS1 DataBar (RSS), MSI Plessey, Code 11, Code 93, NEC 2 of 5, Matrix 2 of 5, Trioptic Code, Telepen, Hong Kong 2 of 5, Pharmacode, Composite Codes
	Stacked 1D: PDF417, Micro PDF417, Codablock A & F
	2D: Data Matrix, QR Code, Micro QR Code, Aztec Code, Maxicode
	Proprietary 2D: GoCode® (Requires Additional Licensing)
	Postal: USPS OneCode (4CB), POSTNET, PLANET, Japanese Post, Australian Post, Royal Mail, KIX Code
Field Selection:	High Density or Wide Field
Good Read Indicators:	Speaker, LED, Vibration

Working Ranges

CR4100 Performance		
Test Code	Min Inches (mm)	Max Inches (mm)
3 mil Code 39	3.9" (100 mm)	5.0" (125 mm)
7.5 mil Code 39	2.2" (55 mm)	8.0" (205 mm)
13 mil UPC	2.0" (50 mm)	10.8" (275 mm)
4.2 mil Data Matrix	3.7" (95 mm)	4.7" (120 mm)
5 mil Data Matrix	3.7" (95 mm)	5.5" (140 mm)
6.3 mil Data Matrix	3.1" (80 mm)	6.3" (160 mm)
10 mil Data Matrix	1.6" (40 mm)	7.9" (200 mm)
20.8 mil Data Matrix	1.6" (40 mm)	12.2" (310 mm)

Note: Working ranges are a combination of both the wide and high density fields. All samples were high quality codes and were read along a physical center line at a 10° angle. Default AGC settings were used. Accuracy= +/- 10%.