



Code Reader 2.0

Code Reader 2.0 and
BH1 Handle

SELECTING A BAR CODE READER

When implementing a Bar Coded Medication Administration solution, the key technology decision to be made is the selection of a bar code reader for use at the bedside.

“There are over 200 known bar code symbologies in existence, but fewer than a dozen are common in the healthcare industry. With that said, the healthcare environment is seeing an increase in the types of symbologies on drug products, and this trend is expected to continue. Linear bar codes are relatively simple constructs of dark and light spaces of varying sizes. However, the sophistication of newer bar code symbologies, such as stacked linear, composite, and 2D bar codes that encode more data in less space, strongly supports the purchase of bar code imagers, rather than bar code scanners, for use with point-of-care systems.”†

The configurability, modular design, and superior bar code reading performance of Code’s bar code reader product lines make Code imagers a perfect fit for the healthcare industry.

Code readers are quick and accurate in reading all bar code symbols, linear and two- dimensional, used by manufacturers of pharmaceutical and hospital consumable items.

Wired vs. Wireless Solutions

Wired solutions are attractive because of their lower per unit price, but the following critical areas should be examined before making the final decision between a wired and wireless solution:

- Cost of Implementation
- Ease of Implementation
- Accessories
- Patient Data Security
- Infection Control/Cleanliness
- Power Life of the Reader
- Physical Space Limitations

Cost of Implementation

A wireless solution has a higher per unit cost than a wired solution. However, fewer readers may be needed overall if choosing wireless, thereby reducing the overall implementation costs. Wireless readers can be assigned to multiple patient rooms while a cabled reader is dedicated to one patient room or computer on wheels.

Ease of Implementation

Code’s wired and wireless solutions can be easily integrated with any Health Information System. Wired solutions feature plug ‘n play functionality that minimizes the implementation process. Wireless solutions are easy to implement but do require additional steps to establish a wireless connection between a modem and host computer.

Accessories

Accessories for Code’s wireless readers include modems, handles, battery handles and protective elastomer boot.

Patient Data Security

Code’s wired bar code readers electronically capture data and populate designated fields of a Health Information System while being cabled to a host computer. Wireless readers use Bluetooth technology to transmit data to the host computer. Code’s modems support Bluetooth specification 2.0 + EDR which is a proven, reliable method for replacing cables with secure wireless communication. Security set-up is quick and easy. Bluetooth technology features 128-bit Bluetooth Authentication and Encryption. In addition Code has added an 8-digit encryption key which can be user-defined, to ensure that patient data is transmitted safely and securely to the host computer and HIPAA compliant. Code’s wireless bar code readers co-exist with WiFi networks.

Infection Control/Cleanliness

Wireless readers eliminate the potential of cable interference and cross contamination of a wired reader.

Code readers can be easily integrated with Health Information Systems, including:

- CernerBridge
- Cerner Millennium
- Epic
- Eclipsys
- McKesson
- Meditech BMV
- Siemens Mak
- Proprietary HIS

Power Life of the Reader

Wired bar code readers are an additional power draw on a computer on wheels. While Code's cabled readers draw power at a significantly slower rate than other bar code readers on the market, the power draw should still be considered when selecting a wired or wireless solution. Wireless readers do not consume power from a computer on wheels.

Physical Space Limitations

Cables for Code's wired bar code readers come in 6', 8' and 12' lengths. Therefore, the physical distance of the computer on wheels that the cabled reader is tethered to must be kept to a maximum of 12' from the patient. Wireless readers give users the flexibility in the physical placement of a host computer.

CODE READER 1200



CODE READER 2.0



CR2 with protective boot, and BH1 handle

The Code Reader 1200 (CR1200) is simple, fast and affordable. It is the new market leader for cabled bar code readers, providing the power of digital imaging technology at the lowest price.

CR1200 Features & Benefits:

- Most affordable bar code reader
- Durable overmolded housing and secured cable ensure drop-shock surviveability
- Ruggedized design with permanent lanyard hook
- Exceptionally 'smooth feel' trigger - three million activations
- Three modes of user feedback ensure 'good read': vibration, visual and audible
- Firmware is field upgradeable
- Dynamic Optimization Technology continuously improves reader performance
- JavaScript Application Development Suite allows program development to prepare captured data for integration with enterprise software
- Three cabling choices: USB, Serial (RS-232) or PS/2

The Code Reader 2.0 (CR2) is the first all applications reader. Whether you are reading smaller, high density data matrix (2D) codes or larger low density linear codes (1D), the CR2 will outperform all other devices.

CR2 Features & Benefits:

- 'Good read' feedback with vibration, audible tones, and LED indicators
- Lightweight, ergonomic design
- Removable battery and rapid replacement. Reader is not out of service to charge battery.
- Walk-away prevention, with vibration, audible tones, and LED indicators
- Equally efficient in batch, cabled or wireless modes
- Firmware is field upgradeable
- Data output options include wireless via Bluetooth, or cabling using USB, Serial (RS-232) or PS/2
- JavaScript Application Development Suite allows program development to prepare captured data for integration with enterprise software
- Accessories available to further ruggedize reader for high-volume scenarios

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† Douglas, Bruce A. "Bar Coded Medication Administration." *Pharmacy Purchasing Magazine*. October 2007
<<http://www.pppmag.com/pp-p-october-2007-issue/bar-coded-medication-administration.html>>