Diamond Technologies
Getting data where it needs to be.

Product Overview

Creo R Hand Held Corded Scanner

The Creo R combines the compact, ergonomic, easy to use, design of the Creo with a powerful HF/LF RFID reader. Designed for the health care and lab instrumentation market the Creo R allows operators to utilize RFID access cards or use RFID tags on inventory, or patient identification.

As a health care superstar the Creo R includes an anti-microbial agent that is tested to ensure 99% prevention of bacteria growth on its surface. The reader is also disinfectant-ready, and as such its enclosure can be cleaned with standard health care cleaning agents. The reader is exceptionally easy to use for health care professionals and lab technicians, with a great white light illuminator, rapid scan technology, high skew angle tolerance, and good read audible, visual, and tactile indication. The reader's ergonomic design provides a great feel in the user's hand and allows for hassle-free scanning. The good read green LED indication further enhances the user's experience with the Creo R.

Creo R

Features

- Anti-Microbial and disinfectant ready surface
- High and Low Frequency Capabilities
- Audible, visual, and tactile feedback
- Compact size and excellent ergonomics
- Integrated cable USB interface
- Snappy reading performance with high motion tolerance

Applications

The Creo R is specifically designed for Health care and Lab applications, and is ideal for use in:

- Medical devices
- Lab Instrumentation
- Biomedical
- Sample testing

- Bedside point of care
- Nursing carts
- Hospital Pharmacy
- Identity Verification

Technical Specifications

DECODING CAPABILITY

1D / LINEAR CODES	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D CODES	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code
POSTAL CODES	Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Postnet;
STACKED CODES	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites

ELECTRICAL

	FHR-004
Input Voltage	4.5 – 5.5 VDC
Max Current	440 mA
Operating Current (Typical)	180 mA
Standby Current (Typical)	60 mA

ENVIRONMENTAL

AMBIENT LIGHT	0 - 100,000 lux
HUMIDITY	5 - 95% (NON –CONDENSING)
TEMPERATURE	Operating: 0 to 55 °C / 32 to 140 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F
IP RATING	IP54

INTERFACES

INTERFACES	USB COM, USB OEM, USB Keyboard, *RS232 * on request

PHYSICAL CHARACTERISTICS

DIMENSIONS	111 L x 39.9 W x 26.5 D mm D /4.38 L x 1.57W x 1.04 D in
WEIGHT	81.0 g / 2.8 oz

FHR-004

	-	—
Creo R (Barcode and HF/LF RFID Reader, LED Red Dot Aimer) 2M White USB Cable		001

READING PERFORMANCE

IMAGER SENSOR	VGA: 640 x 480 pixels
LIGHT SOURCE	Aiming: 630nm LED Illumination: Internal White LEDs
PRINT CONTRAST RATIO (MIN)	20%
FIELD OF VIEW	40° H x 30° V
READING ANGLE	Pitch: +/- 50°; Roll (Tilt): +/-360°;Skew (Yaw): +/- 50°
RESOLUTION (MAXIMUM)	1D Linear: 3 mils; DataMatrix: 7 mils; PDF417: 4 mils

BARCODE READING RANGES

TYPICAL DEPTH OF FIELD	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent. 1D / 2D CODES 5 mils Code 39: 4.5 to 18.0 cm / 1.7 to 7 in 10 mils PDF417: 4.2 to 24.7 cm / 1.6 to 9.7 in 20 mils Code 39: 7.1 to 74.7 cm / 2.7 to 29.4 in

RFID PERFORMANCE

RFID ENGINE	Diamond Technologies Proprietary Engine
NOMINAL READ RANGE	Contact -3" / 0 - 76.2mm
SUPPORTED TAGS AND PROTOCOLS	Reads globally relevant standards EM 125kHz, ISO14443A, ISO14443B, ISO15693, ISO18092, EM4102/4100, EM4305, HITAG1,2,S, NXP ICODE, SLI, SLIX, SLIX2, MIFARE, Classic, Classic 1K/4K, DESFire EV1, EV2, EV3, PLUS, Ultralight C, Ultralight EV1, NTAG 203,213, PicoPass, SRX, Felicia RCS966, Topaz, Indala
READ - WRITE SPEED	NFC-A 106kbps, NFC-B 212kbps or 424kbps
FREQUENCY BAND	125KHz LF, 13.56 MHz HF

SAFETY & REGULATORY

ENVIRONMENTAL COMPLIANCE	FCC Part 15 Class B, CE, UL, IEC 62368-1:2014, RoHS, UKCA, IC, WEEE, CISPR 32

UTILITIES

DSCU	Decoded Scanner Configuration Utility

WARRANTY

WARRANTY	2 Year Factory Warranty