



## 2220 Omnidirectional bar code, 2D & QR code reader, UHF RFID, USB

The CipherLab 2200 is not a common bar code and 2D code (such as e.g. QR code) reader for POS applications in retail. In a single device the unlocking EAS electronic security circuit can also be present, or an UHF RFID tag reader to simultaneously update inventory control systems.

CipherLab 2200 series has an accelerated scan rate of a snappy 60 scans per second. This high-speed scan rate allows reliable scans of 1D, PDF417, and 2D barcodes instantly. The size and shape of the reader is especially clever also for 2D code or QR code scanning directly from the LCD screen of a smartphone.



The CipherLab 2200 is not only a piece of hardware. The genuine part of the unit is the ScanMaster set-up utility, the professional software developed by the worldwide leader of the ID industry, which will turn the reader into really intelligent component of your system. The ScanMaster utility is also available as a web application at the internet portal [ScanMaster Web](#).

### Top features of the CipherLab 2200 Omnidirectional bar code and 2D code reader

- high rate 2D imager capable for scanning the code also from from the LCD screen of a smartphone;
- builtin EAS component, in the model 2210;
- builtin UHF RFID secondary reader, in the model 2220.

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# Technical Description

## Functionality & Operation

Frequency	UHF: 902 - 928 MHz (US), UHF: 865 - 868 MHz (EU), UHF: 902 - 928 MHz (US), UHF: 865 - 868 MHz (EU), UHF: 865 - 868 MHz (EU), UHF: 902 - 928 MHz (US)
RFID transponder protocols	ISO 18000-6C, EPC Class 1 Gen2
Communication interface	OPOS, RS232, USB, USB-HID, USB-VCP, keyboard
Language support	Spanish, Hungarian, US and UK English, Belgian, Norwegian, Italian, French, Swedish, German, Portuguese, Japanese, Turkish, Danish, Czech
1D Barcode Symbolologies	Codabar, Code 128, Code 39, Code 93, GS1 Data Bar (RSS), Industrial 2 of 5, Interleaved 2 of 5, ISBT-128, Italy Pharma Code, French Pharma Code, GS1 128, Matrix 2 of 5, Plessey, MSI, Telepen, UCC/EAN-128, UPC/EAN, EAN 13/UPCA, EAN 13/UPCA + ADDON 2, EAN 13/UPCA + ADDON 5, EAN 8 + ADDON 2, EAN 8 + ADDON 5, EAN-UCC, ISBN/ISSN, Code 11
2D Code Symbolologies	MicroPDF417, Micro QR Code, GS1 QR Code, GS1 DataMatrix, Data Matrix, Aztec, QR code, MaxiCode, PDF417, Composite codes, GS1 DataBar Composite Code
Operation interface	1x button
Indicators	Buzzer, LED

## Optical

Bar code scanner	2D Imager (1280 x 800 px)
Light source	visible red LED 620 nm
Resolution	1D: 3mil; PDF417: 5mil; 2D: 7mil
Depth of scan field	0 cm ~ 20 cm
Maximal roll angle	70°
Maximal skew angle	75°
Minimum symbol contrast	25%

## Electrical

Power Consumption - Standby	350mA
Power Consumption - Operation	1A
Power Source	5 VDC

## Mechanical

Weight	380g
Dimensions	Width: 83mm, Height: 150mm Length: 80mm
Color	black

## Environment

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