# 2504 Rugged 2D & QR Code Reader, black, USB

Rugged, durable barcode and 2D code scanner from CipherLab. That's the 2500 scanner.

Rugged, durable CipherLab 2500 1D or 2D barcode reader with up to 578 scans per second (2500 model) and industry-proof IP54 is able to read even legible or corrupted codes from the distance up to 4 meters (2504-MR model).
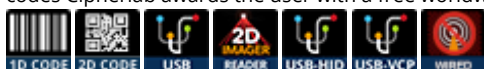
**Key Features of the CipherLab 2500 Series** :

- Reading 1D or 2D barcode
- s Ability to read even badly or corrupted barcod
- es Industrial enclosure I
- P54 Read speed up to 578 scans per second when reading 1D c
- odes Communication interface according to the type of r
- eader IPhone / iPad keyboard s
- upport White-yellow illumination - very fast reading o

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codes Cipherlab awards the user with a free worldwide accesible setup tool as an addition to the standard way of setting up

# Technical Description

### Functionality & Operation

| | |
|---|---|
| 2D Code Symbologies | all standard 2D-Codes, QR code |
| Communication interface | USB, USB-HID, USB-VCP |
| 1D Barcode Symbologies | All standard one-dimension barcodes |

### Optical

| | |
|---|---|
| Resolution | 5 mil |
| Resolution | 1280 x 800 px |
| Depth of scan field | 1.5 cm ~ 28 cm |
| Scanning rate | 60 scan/sec |
| Maximal skew angle | 60° |
| Maximal pitch angle | 70° |
| Light source | warm white LEDs 2x |
| Bar code scanner | 2D Imager |
| Minimal PCS value | 25% |

### Electrical

| | |
|---|---|
| Power Consumption - Standby | 55mA |
| Power Consumption - Operation | 400mA |

### Mechanical

| | |
|---|---|
| Weight | 145g |
| Dimensions | Width: 161mm, Height: 66mm Length: 95mm |

### Environment

| | |
|---|---|
| Maximal ambient light | 100000lux |
| Ingress protection | IP65 |
| Operating temperature | 0 to 50°C |
| Storage temperature | -40 to 70°C |
| Operating humidity (non-condensing) | 10 to 90% |
| Storage humidity (non-condensing) | 5 to 95% |
| Electrical static discharge | ±20kV air, ±10kV contact |
| Shock resistance | drop from 1,8 m on to concrete surface |