

# REA VERIFIER

QUALITY CONTROL DEVICES  
FOR MATRIX- AND BARCODES

## REA PC-Scan LD4

Verify barcodes  
with highest precision



# REA PC-Scan LD4



The REA PC-Scan LD4 is a barcode verifier made in Germany which was developed in conformity with international standards. It is especially designed for measuring barcodes with highest precision.

The REA PC-Scan LD4 is a guarantee for highest measurement accuracy. It provides the following unique features:

- Fully automatic contrast calibration before every scan
- Integrated metric standard for precise width and length measurements
- Constant lighting angle of 45° over the entire scan width of 133 mm or 220 mm
- Laser illumination with a wave length of 670 nm
- Constant sensor angle of 90° over the entire scan width
- Constant measurement distance over the entire scan width
- Contact-free measurement
- Aperture 4 to 8 mil or 10 to 20 mil
- Hollow body measurement adaptor for barcodes on hollow bodies available
- Two device variants available: 133 mm scan width and 220 mm scan width

The combination of state-of-the-art technology, process reliability and intuitive operation makes the REA PC-Scan LD4 globally unique in its class.

Final statements „**Pass**“ or „**Fail**“ are central display elements and enable an immediate result. The simultaneously displayed details allow for an immediate and exact barcode quality analysis.

Thanks to the graphical display of the measurement results different measurement aspects can be recognized and assessed quickly and reliably. The display is optimized for easy understanding of the meaning of the measurement results.

If required, evaluation reports are automatically saved and supplemented with a job number in the file name.

The operation can be protected by user administration or password. For individual complete settings, a profile can be created. This can be called up later by the push of a button for routine verifications. The correct measurement setting can thus be created quickly and safely in just one step.

For subsequent data exchange, verification reports can be generated as a PDF file and exported as a text table (CSV).

Comment features enable individual user comments within the report.

With the REA PC-Scan LD4, you can find out precisely why the read rates are low. The detailed evaluation results allow a lasting optimization of the code quality.

## Optional software extensions

### REA Article Look Up Software

An additional verification is carried out using database data. Each item number is checked against individual data since there is a separate entry in the database for each product. In a simple case, it is checked, whether a read item number exists within the code. In the extended case, e.g. data and prices can be checked.

### REA ScanLink

REA ScanLink is an optionally available software solution for extended standard-compliant code verification. Data structures are regulations about how information must be stored in a code. Ideally, this regulation is equal for all, so that all code users know the meaning of the code contents. The generally valid regulations for data structures are specified by ISO standards ISO / IEC 15459-x).

### REA Code Analysis

The REA Code Analysis is an optional software extension for all REA verification devices. In many applications, data is used which is built according to an internally defined structure (proprietary data). REA Code Analysis provides these requirements in a table. The code content is thus checked for its correctness.

### Code Types

A variety of different codes can be measured as standard with the REA PC-Scan LD4: EAN-13, UPC-A, UPC-E with/without Add-ON, EAN-8, 2/5 Interleaved with/without check digit, ITF-14, Code 39 with/without check digit, PZN-Code, Code 32, Code 128, GS1-128 with/without content verification, GS1-Databar (limited, expanded, stacked).



REA TransWin 32 evaluation software

## Optional Codes:

2/5 3 Bars, 2/5 5 Bars, 2/5 IATA, 2/5 Baggage, 2/5 DHL Express (Frachtpost-Code), Code39 Full ASCII, Code93, MSI, Plessey, Code 128 UPU, Code 39 UPU, Code 39 HIBC, Code 128 HIBC, Codabar Monarch, LAETUS Pharmacode, LAETUS Mini Pharma Code.

The included measurement program measures reflectance profiles of unknown codes or any other structures. A metric and a contrast assessment can then be made.

## Features:

- Measurement according to iso/iec 15416 or ansi x3.182
- Optional parameters in accordance with the respective bar code standards for optimal print process control
- Multiple complete settings can be stored as profiles
- Settings profiles can be imported and exported, settings can be cloned for multiple devices
- Adjustment of desired minimum quality with automatic target/actual comparison
- Auto discrimination of the most important bar code symbologies
- Automatic code size and check digits monitoring
- Multiple measurement with averaging from up to 10 single measurements
- Verification and visualization of quiet zones with an extended area
- Ratio monitoring for two bar width codes (e.G. Code 39, 2/5i)
- Verification according to the gs1 general specifications requirements
- Support with evaluation of gs1-data structures
- Verification reports can be displayed as gs1-report and printed
- Multilingual verification reports and user interface

## Technical Data:

- Measurement accuracy in conformity with ISO/IEC 15426-1
- ARM9, 32 bit microprocessor, 32 MB RAM, 32 MB Flash ROM
- Embedded Linux operating system
- Red light with 670 nm semiconductor laser, laser protection class II
- Lighting angle 45°, measurement angle 90°
- Aperture: GS1-report mil (equals 0.1; 0.15; 0.2 mm) or 10 to 20 mil depending on measuring head
- Measuring accuracy:  $\pm 3 \mu\text{m}$  for average value;  $\pm 6 \mu\text{m}$  for extreme values;  $\pm 5 \%$  for contrast measuring accuracy
- 5 control keys: on/off, Scan, Store (save), Print, Pos. (stationary measurement)
- Connection: RJ45 Ethernet port for power supply and TCP/IP data transfer (DHCP, ZeroConfig or manual fixed IP setup)
- Power supply: via supplied Power-Over-Ethernet power supply, prim. 110-240 V~
- Power supply socket and power connection cable for EU, US, UK
- Connection with 2 CAT5 network patch cables (2 x 3 m)
- Maximum data cable length 100 m
- User maintenance: device is self-adjusting. Regular verification tool monitoring and cleaning of calibration fields required. Manufacturer service recommended every 2 years.
- Dimensions (W x H x D): 281 x 89 x 92 mm or 381 x 89 x 92 mm
- Weight: 1,580 g or 1,820 g
- Supplied evaluation software REA TransWin 32 – for PCs with MS® Windows 7 or later operating systems and .net Framework, vers. 4.0 or later (64 bit preferred)



A measurement is carried out



Measurement of printed sheets in production

# REA VERIFIER



**Solution Partner**  
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