

REA VERIFIER

QUALITY CONTROL DEVICES
FOR MATRIX- AND BARCODES

REA MLV-2D

Verifier for Matrix-
and Barcodes



Optimize print quality by the aid of the detailed measuring results



The REA MLV-2D is a matrix- and barcode verifier which has been developed in conformance to international standards. The measurement uses defined angles distances and illuminations to achieve repeatable results and quality information.

The system uses a precise optical camera module with a CMOS Sensor type. The measuring area is shielded to avoid any ambient light influences. Reports are visualized by using the REA TransWin32 Software. Communication is provided by the standardized, reliable and fast TCP/IP network communication. Additional results are shown on the device display to provide a PC independent operation.

The REA Verifier result allows a quick analysis why reading rates in applications are too low.

Options

Four different camera modules with different field of views and a selection of fitting bottom plates are available. This allows adapting the verifier to different code sizes.



Features:

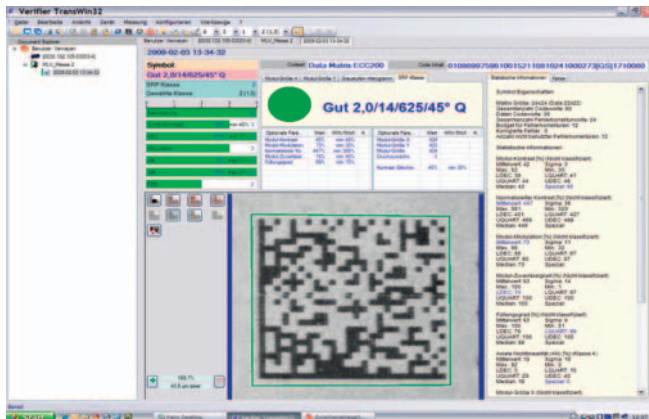
- contactfree measurement by a CMOS Camera
- easy exchangeable camera modules to adapt to different code sizes
- variable illumination (Angle is either 10° or 45°). Light source is either red or white light. All variations are software selectable included in each device
- capable to measure DPM (direct parts marking) codes
- field of view is protected against ambient light influences
- camera live image on the device display to allow an easy verifier positioning
- verification according to ISO/IEC 15415 for printed matrix codes
- verification according to ISO/IEC TR 29158 / AIM DPM-1-2006 for direct parts marking matrix codes
- verification according to ISO/IEC 15416 or ANSI X3.182 for barcodes
- verification according to the GS1 General Specifications
- verification of GS1-128 data structures
- verification of optional parameters for optimizing the print process
- multi language user interface and reports
- easy to position

Supported symbologies:

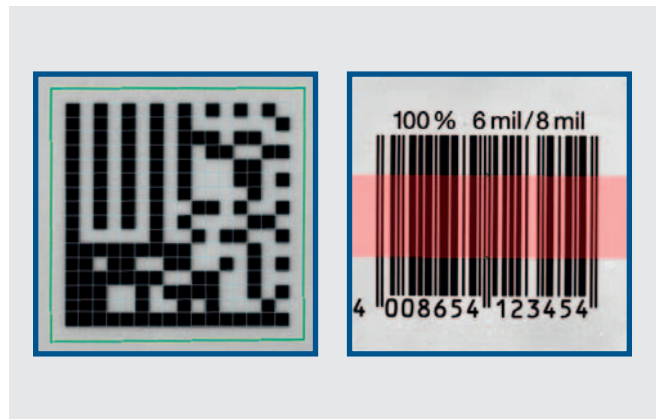
- **Matrix Symbologies (2D):**
DataMatrix, GS1 DataMatrix, DPM-matrix codes, QR-code, MicroQR-code, more under development
- **Barcodes (1D):**
EAN-13, UPC-A, UPC-E with/without ADD-ON, EAN-8, 2/5 Interleaved with/without check digit, ITF-14, DHL Express, code 39 with/without check digit, PZN-code, Code 32, Code 128, GS1-128 with/without data structure check, GS1 DataBar
- **Optional Symbologies (1D):**
2/5 3 Bars, 2/5 5 Bars, 2/5 IATA, 2/5 Baggage, 2/5 DHL Express, Code39 Full ASCII, Code93, MSI, Plessey, Code 128 UPU, Code 39 UPU, Code 39 HIBC, Code 128 HIBC, Codabar Monarch (18), LAETUS Pharmacode, LAETUS Mini Pharma code

Technical specifications:

- measuring accuracy in conformance to ISO/IEC 15426-2 and ISO/IEC 15426-1
- TransWin32 included
- ARM9, 32 bit Microprocessor
- 32 MB RAM, 32 MB Flash ROM
- embedded Linux operating system
- internal real time clock
- red light 660 nm and white 4.000 °K LED illumination
- software selectable illumination angles 45°, 10° or both
- graphic color display, 320 x 240 pixels with backlight
- signal LED for power, pass and fail indication
- easy to understand verification report
- power supply by Power over Ethernet (uses Ethernet cable). Power supply is included in delivery
- ethernet port RJ45 for TCP/IP communication and PoE Power supply
- exchangeable camera module, resolution 1280 x 1024 Pixel, focus and aperture fixed adjusted by factory
- minimum Module sizes 0.08 mm, 0.15 mm, 0.22 mm or 0.36 mm depending on camera module
- field of view selection 18 x 14 mm, 39 x 31 mm, 56 x 45 mm or 92 x 52 mm
- size: 203 x 203 x 300 mm
- weight: 1,200 g



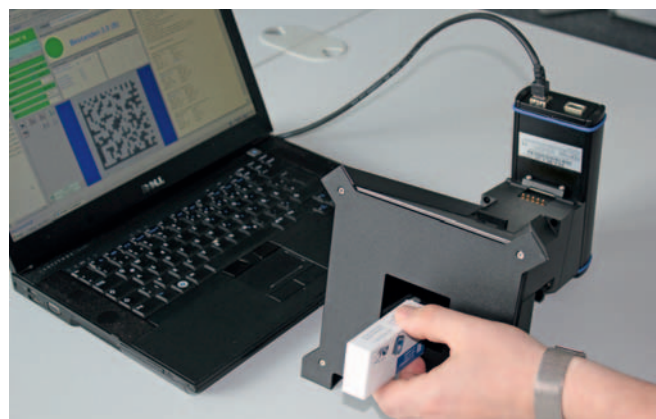
Quick result and details in one view



Verification for matrix codes and barcodes



Fast DataMatrix verification upside down with variety of bottom plates



Verification in side orientation

REA VERIFIER



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