REA VERIFIER

QUALITY CONTROL DEVICES
FOR MATRIX- AND BARCODES

REA VeriCube

Quality Control Device
for 2D Matrix- and Barcodes

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The REA VeriCube is a state-of-the-art matrix and barcode verification device which can be used across all industry sectors. Whether lying, standing or from top to bottom, virtually any test sample can be measured in the optimum measuring position.

The measurement of optical codes in compliance with ISO standards at defined angles, distances and lighting allows accurate and reproducible measurement results and quality evaluations.

The measured values are transmitted via a standard network interface to a PC with REA TransWin32 evaluation software installed.

The verification system consists of the measuring head, an optical module (CMOS camera) with a wide measuring range to choose from and the Windows based PC evaluation software REA TransWin32.

With the REA Verifier VeriCube you can quickly find out how to improve the read rate of the tested codes.

Optimize the print quality of your codes by utilizing detailed measurement results.

Features

- Contact-free measurements by a CMOS camera
- Easy exchangeable camera modules to adapt to different code sizes and measuring distances
- Selectable illumination (red or white light, diffused red light, UV light, IR light)
- Capable of measuring DPM codes (direct part marking)
- Designed to operate in 3 positions to meet different measuring requirements: sidewise, in upright position and upside down, optional with tripod
- Darkened measuring chamber to avoid ambient light influences
- Verification according to ISO/IEC 15415 for printed matrix codes
- Verification according to ISO/IEC TR 29158 (formerly AIM DPM guideline 2006) for direct part marking matrix codes (optional)
- Verification according to ISO/IEC 15416 or ANSI X3.182 for barcodes
- Verification in compliance with GS1 specifications
- Verification of GS1 data structures
- Verification of optional parameters for optimizing the print process
- Multilingual user interface and reports
- For ease of use, settings can be stored in customized profiles for fast evaluation setting selection
- ISO/IEC 15418 / ANS MH10.8.2 data structure analysis
- Specific code selection to meet the pharmaceutical industry demands
- Power supply via network cable (Power over Ethernet)
- Easy removable and exchangeable glass cover plate
- Network-compatible PC evaluation software TransWin32 for Windows (multi user capable)
- Option Audit Trail for 21 CFR part 11 and CGMP requirements optionally available

Code Types

Matrix Codes (2D):

Data Matrix, DPM-Matrix Codes, QR-Code, Dotcode, MicroQR-Code, Aztec Code, PDF 417, MicroPDF, HanXin Code, Composite Codes, more under development

Barcodes (1D):

EAN-13, UPC-A, UPC-E with/ without Add-On, EAN-8, 2/5 Interleaved, ITF-14, Frachtpost, Code 39, PZN-Code, Code 32, Code 128, GS1-Databar, GS1-Databar Composite

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, Codabar Monarch (18), LAETUS Pharmacode, LAETUS Mini Pharma Code

Data structures and code properties:

- GS1 data structures (GS1 DataMatrix, GS1-QR-Code, GS1-128, GS1 Databar, Composite)
- ISO/IEC 15418 / ANS MH10.8.2 data structures (AIAG, Odette, VDA, EDIFICE, HIBC, DOD, UPU ...)
- EFPIA and PPN support for pharmaceutical industry
- Check digit control settings
- Size control settings
- Customizable date verification

Technical Data (Focus position 0 mm)

Focal length	Field Of View (FOV)	Typical X-dimension	Minimum X-dimension	Pixel size
8 mm	114 x 71 mm	0.46 mm	0.25 mm	44 µm
12 mm	80 x 60 mm	0.31 mm	0.18 mm	31 µm
16 mm	64 x 47 mm	0.25 mm	0.15 mm	25 µm
25 mm	37.5 x 27.7 mm	0.15 mm	0.09 mm	14.5 µm
50 mm	9 x 6 mm	0.042 mm	0.036 mm	3.6 µm

- Measuring accuracy compliant to ISO/IEC 15426-2 and ISO/IEC 15426-1
- Windows Software TransWin32 included
- Red LED light 660 nm or white LED light 4.000 °K, optianally IR 840 nm, 950 nm, UV 365 nm
- Illumination angle 45°, red or white light
- Status LEDs for scan and light source selection
- Power supply via PoE (Power over Ethernet)
- Key panel with on/off, Scan and 1 customizable-function key
- Flip key panel to accomodate to preferred measuring position
- RJ45 Ethernet port for TCP/IP communication
- Exchangeable camera module, resolution 2592 x 1944 pixel
- Camera focus and aperture pre-adjusted by factory
- Size: 200 x 150 x 150 mm (w/l/h), with key panel 210 mm width
- Weight: 2.600 g
- Windows 7, Windows 8 and Windows 10. 64-bit support. For option Audit Trail 64-bit Windows is mandatory.

Specifications and features explained here are subject to change without notice.

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