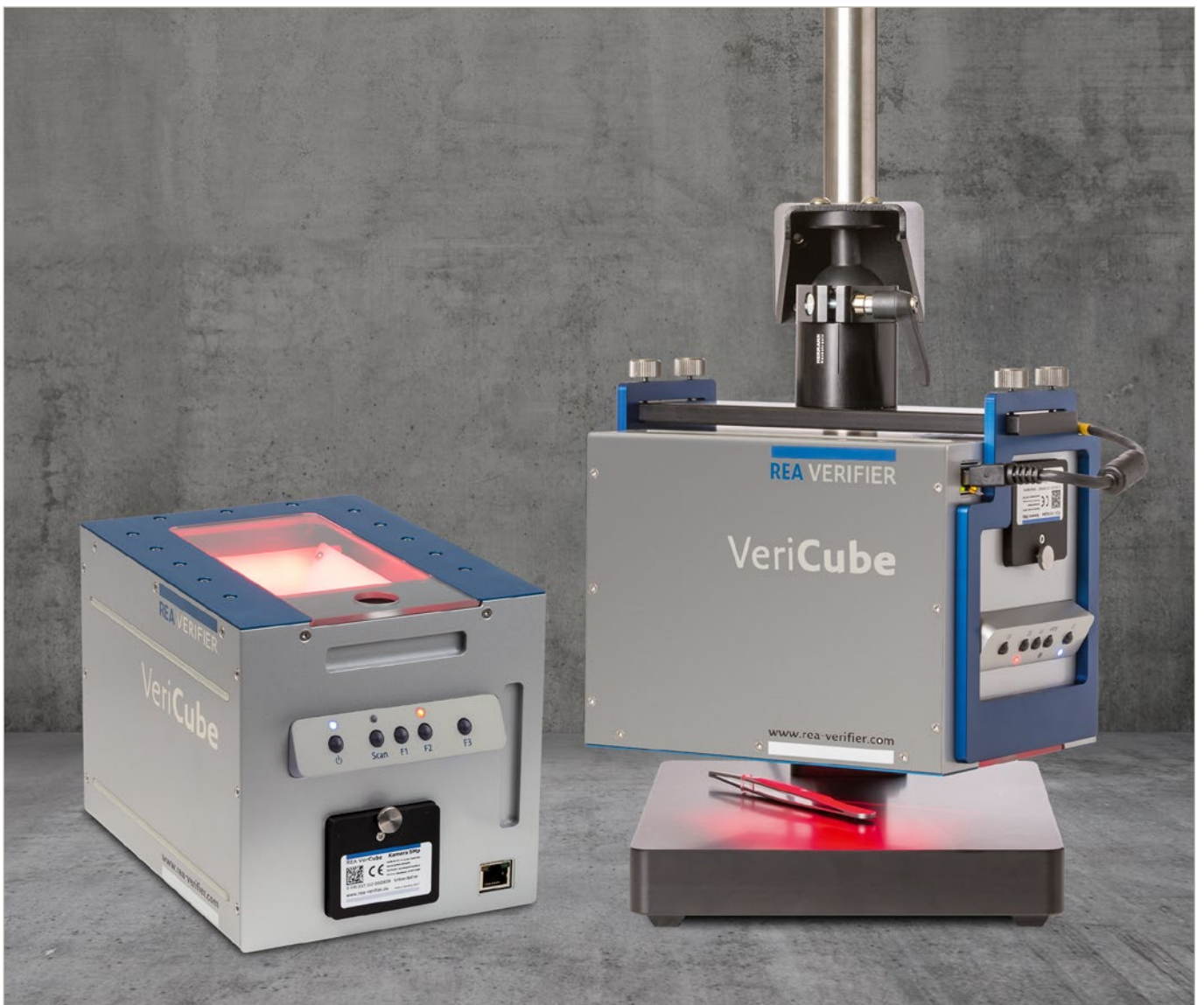


REA VERIFIER

QUALITY CONTROL DEVICES
FOR MATRIX- AND BARCODES

REA VeriCube DF

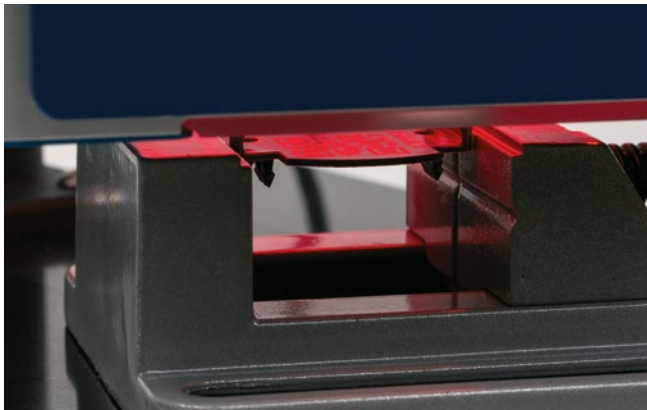
Quality Control Device
for 2D Matrix- and Barcodes



REA VeriCube DF Diffuse Illumination

The REA VeriCube DF (diffuse illumination) 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 contact-free in the optimum measuring position.

The measurement of optical codes in compliance with defined angles, distances and lighting allows accurate and reproducible measurement results and quality evaluations. Especially the REA VeriCube DF is designed for parts with glossy surfaces as well as complex 3D geometries with the risk of shadows in the area of the code to be verified.



Verification of plastic part in a vice

The system is designed to avoid ambient light influences during the measurement process.

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.



Verification of surgical instruments

Features

■ Diffuse Illumination

- Contact-free measurements by a CMOS camera
- Easy exchangeable camera modules to adapt to different code sizes and measuring distances
- Selectable diffuse illumination (red or white light)
- Specifically for measuring of DPM codes (direct part marking)
- Designed to operate in 3 positions to meet different measuring requirements: sidewise, in upright position and upside down. **For complex 3D geometry parts the REA VeriCube diffuse is mounted in a stand.**
- 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
- 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 selection
- ISO/IEC 15418 / ANSI 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)

Code Types

Matrix Codes (2D):

Data Matrix, DPM-Matrix Codes, QR-Code, Dotcode, MicroQR-Code, Aztec Code, PDF 417, HanXin Code, MicroPDF, 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), Code 39 Full ASCII, Code 93, MSI, Plessey, Codabar Monarch (18), LAETUS Pharmacode, LAETUS Mini Pharma Code

Options:

REA VeriCube stand, optional Symbologies, ScanLink, Article Look up Software, Data Analysis

Data structures and properties:

- GS1 data structures (GS1 DataMatrix, GS1 QR-Code, GS1-128, GS1 Databar, Composite)
- ISO/IEC 15418 / ANSI 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

measuring distance 0						
focal length	Field of View (FoV)	Typical X-dimension		Minimum X-dimension		Pixel size
16 mm	64 x 47 mm	0.25 mm	10 mil	0.15 mm	6 mil	25 µm
25 mm	37 x 27 mm	0.15 mm	6 mil	0.09 mm	4 mil	14.5 µm
50 mm	9 x 6 mm	0.042 mm	2 mil	0.036 mm	1 mil	3.6 µm
measuring distance +15						
focal length	Field of View (FoV)	Typical X-dimension		Minimum X-dimension		Pixel size
16 mm	68 x 51 mm	0.27 mm	11 mil	0.016 mm	6 mil	27 µm
25 mm	40 x 30 mm	0.16 mm	6 mil	0.10 mm	4 mil	15.7 µm
50 mm	10 x 7 mm	0.05 mm	2 mil	0.04 mm	2 mil	3.9 µm
measuring distance +45						
focal length	Field of View (FoV)	Typical X-dimension		Minimum X-dimension		Pixel size
25 mm	47 x 25 mm	0.2 mm	8 mil	0.10 mm	4 mil	18.4 µm

The camera modules are available for measuring plane directly on the glass pane (0 mm), with a distance of 15 mm and even with a distance of 45 mm to the device top plane. The 15 mm and 45 mm distance is required for measuring of complex 3D parts in the REA VeriCube stand. The focal distance tool will help to set the correct distance.

- 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, optional IR 840 nm, 950 nm, UV 365 nm
- Illumination angle 45°, red or white light, diffuse
- Key panel with on/off, Scan and customizable function keys
- Flip key panel to accommodate to preferred measuring position
- RJ45 Ethernet port for TCP/IP communication and PoE Power supply
- 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, 8 and 10, 64bit support

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



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