

REA VERIFIER

QUALITY CONTROL DEVICES
FOR MATRIX- AND BARCODES

REA VeriMax

Inline control device
for the quality verification of 2D Matrix- and Barcodes
NEW: Ready for inline verification



Verify code quality while production is running

The REA VeriMax is an inline verification device specially developed for fully integrated installation in packaging or production machines for the uninterrupted inline verification of 1D/2D codes during ongoing production. Alternatively, it can be installed as a random sample measuring device.

With its small dimensions, it can be installed in any system and integrated into the machine technology via software and interfaces.

Good to know, all is correct

The measurement of optical codes in compliance with defined angles, distances and illumination enables accurate and reproducible measurement results and quality assessments according to ISO/IEC standards.

Using the REA VeriMax, you can quickly find out if you are in compliance with the legal quality specifications in the pharmaceutical industry as well as user specifications, e.g. in retail. The detailed measurement results allow a precise analysis of the code properties as a basis for optimizing the print quality of your codes.



Code verification in the running process

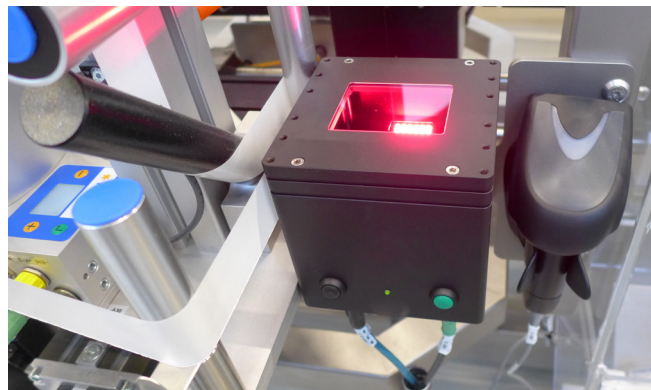
State of the art code verification

The REA software operates in the background or touch-screen-optimized in the foreground. It is used to measure codes, make settings and manage them. Various print quality requirements can be set and conveniently stored as a profile for each requirement.

The device can be accessed via a programming interface. Operation is then carried out uniformly by higher-level software. The digital PLC I/O interface allows sequence control and result handling. A higher-level software can thus integrate the REA VeriMax completely or also partially (e.g. only the measuring function without setup function).

This makes it possible, e.g. in controlled pharmaceutical production facilities, to collect and record all production-relevant data relating to production batches centrally in one place.

Furthermore, the qualification of measuring instruments becomes an integral part of the machine qualification..



Fully integration into production machine

Features:

- Non-contact code verification by a CMOS camera system
- Uninterrupted inspection of the passing product
- 5 measurements per second and a maximum product speed of 150 m/min are possible
- Fixed lens for highest accuracy when integrated into a machine
- Darkened measuring chamber to avoid ambient light influences
- Red light illumination 660 nm, 45° from four sides
- Verification according to ISO/IEC 15415 for printed matrix codes and ISO/IEC 15416 for printed bar codes
- ISO/IEC 15418 / ANS MH10.8.2 Data structure analysis
- Verification in compliance with GS1 specifications
- Verification according to ISO/IEC 29158 (formerly AIM DPM guideline 2006) for direct part marking matrix codes (optional)
- Specific code selection to meet the pharmaceutical industry and other industries
- Verification of optional parameters to optimize the print process
- Settings for user-defined profiles, for easy operation and faster selection
- Multilingual user interface and reports (REA software)
- Removable top cover plate with replaceable glass plate (optional: construction of customized cover plates)
- Ethernet 1GB/s network connection
- Power supply 24V
- Available as OEM version with neutral housing

Code Types

Matrix Codes (2D):

Data Matrix, QR-Code, Micro QR-Code, Aztec Code, PDF 417, HanXin Code, DotCode, 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 Codes

Options: Optional codes, DPM

Data structures and code properties:

- GS1 data structures (GS1 Data Matrix, GS1-QR-Code, GS1-128, GS1 Databar, Composite)
- ISO/IEC 15418 / ANSI MH10.8.2 data structures (AIAG, Odette, VDA, EDIFICE, HIBC, DOD, UPU ...)
- Support of EFPIA and PPN specifications of the pharmaceutical industry
- Check digit control settings
- Size control settings
- Customizable date controls

Technical Data:

Focal length	Field of view	Typical X-dimension		Minimum X-dimension		Pixel size
12 mm	41 x 32 mm	0,31 mm	12 mil	0,21 mm	8 mil	31 µm

- Control instrument and measurement accuracy in compliance with ISO/IEC 15426-2 and ISO/IEC 15426-1
- REA VeriMax software for Windows
- Housing milled from solid aluminum
- Protection class IP54
- Red light LED 660 nm
- Illumination angle 45°, four-sided
- Status LED
- Power supply 24 V (control cabinet PLC or optional power supply unit)
- Two buttons, one for trigger scan and one mode button (live image on/off)
- Camera resolution 1280x1050 pixel
- Camera sharpness and aperture settings fixed ex works
- 5 evaluations per second
- Max. Product speed 150m/min
- No standstill required due to short flash illumination
- Depth of field up to +2mm
- Dimensions: 120 x 120 x 120 mm (w/l/h) with buttons 126 mm
- Weight: 1560 g
- Windows 10 and later, 64-bit



REA VeriMax
lateral mounting point



REA VeriMax
ports

REA VERIFIER



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