

# REA VERIFIER

QUALITY CONTROL DEVICES  
FOR MATRIX- AND BARCODES

## REA VeriMax

Quality Control Device  
for 2D Matrix- and Barcodes



# REA VeriMax for machine and plant construction



The REA VeriMax is a state-of-the-art matrix and barcode verification device which can be used across all industry sectors. The VeriMax is designed to be mounted fixed in production lines and to be controlled by software individually created by a machine builder. For this purpose the REA evaluation software offers a programming API. The REA VeriMax can also be used as a standalone device mounted on a stand.

The measurement of optical codes in compliance with defined angles and distances of lighting and camera allows accurate and reproducible measurement results and quality evaluations according to ISO/IEC standards.

The measuring system is based on a high-precision CMOS camera chip. Furthermore the design avoids influences by ambient light.

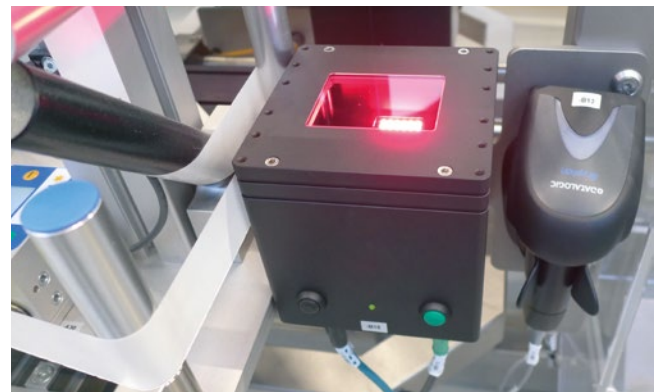
The REA VeriMax is designed as offline Verifier for measuring samples. Settings and measuring results are entirely under control of the machine builder's software. This allows e.g. in controlled pharmaceutical manufacturing sites to acquire and record all production relevant data in related to production batches. The verifier qualification (IQ/OQ) is then consequently a part of the machine qualification and no longer a separate process.

The measured values can be also viewed and managed by a REA Verifier Software application (touchscreen optimized). This can be separate standalone or in parallel to the integrated machine software.

With REA VeriMax, you can quickly find out whether you are using the EU and FDA (US) specifications. You will also see how the print quality of your codes through detailed measurement results optimize it.



REA VeriMax with test specimen on



REA VeriMax OEM integrated in machine

## Features:

- Measurements by a CMOS camera
- Fixed mounted lens to achieve highest reliability when integrated into a machine
- Red light illumination 660nm, 45° from four sides
- Darkened measuring chamber to avoid ambient light influences
- Verification according to ISO/IEC 15415 for printed matrix codes and ISO/IEC 15416 for printed bar codes
- Verification according to ISO/IEC TR 29158 (formerly AIM DPM guideline 2006) for direct part marking matrix codes (optional)
- Verification in compliance with GS1 specifications
- Verification of GS1 data structures
- Verification of optional parameters for optimizing the print process Verification according to ISO/IEC TR 29158 (formerly AIM DPM guideline 2006) for direct part marking matrix codes (optional)
- Multilingual user interface and reports
- For ease of use, settings can be stored in customized profiles for fast selection
- ISO/IEC 15418 / ANS MH10.8.2 data structure analysis
- Specific code selection to meet the pharmaceutical industry demands
- 24 Volt power supply for machine integration. A separate 24V power supply is available for standalone operation / evaluation kit
- Removable top cover platen with exchangeable glass plate and threads for fixture mounting

## Code Types

### Matrix Codes (2D):

Data Matrix, QR-Code, MicroQR-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), Code 39 Full ASCII, Code 93, MSI, Plessey, Codabar Monarch (18), LAETUS Pharmacode, LAETUS Mini Pharma Code

Options: Optional Codes, DPM

### 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:

| focal length | Field of View (FoV) | Typical X-dimension | Minimum X-dimension | Pixel size |
|--------------|---------------------|---------------------|---------------------|------------|
| 12 mm        | 41 x 32 mm          | 0.31 mm             | 12 mil              | 31 µm      |

- Measuring accuracy compliant to ISO/IEC 15426-2 and ISO/IEC 15426-1
- REA VeriMax Software for Windows included
- Protection class IP54
- Red light-LED 660nm
- Illumination angle 45°, red from four sides
- Status LEDs for scan
- Separate Power supply for REA VeriMax 24V (excluded in OEM version, included in evaluation kit)
- Two buttons, one to trigger scan and one mode button (live image on/off)
- M12 Ethernet connection for GigE Vision communication (connection cable optionally available)
- Camera resolution 1280 x 1024 pixel
- Camera focus and aperture pre-adjusted by factory
- Depth in field 0 up + 2 mm
- Size: 120 x 120 x 120 mm (w/l/h) with key panel 126 mm
- Weight: 1560 g without connecting cable and brackets
- Windows 7 and later, 64 bit support



REA VeriMax ports



REA VeriMax lateral mounting point

# REA VERIFIER



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