REA VERIFIER

QUALITY CONTROL DEVICES
FOR MATRIX- AND BARCODES

REA VeriMax Mobile

Verification of 1D and 2D codes
by a portable device

Flexible code verification - avoid errors and costs

The REA VeriMax Mobile is configured for mobile use in production, laboratory, incoming goods and quality assurance.

The offline verification device is suitable for measurements of samples and comes with its own tablet PC. It verifies the quality of 1D/2D codes to ensure that regulatory quality specifications as well as user specifications are met.

By ensuring high code quality and eliminating incorrect code content, the REA VeriMax Mobile can significantly help reduce costs. This is because unreadable barcodes force manual entries, which increase the risk of errors and delay the entire operational process.

With REA VeriMax Mobile, you can quickly find out how to improve code reading rates.

The detailed measurement results serve as a basis for optimizing the print quality of codes as well as for assessing scanning performance.

Routine code inspection enables corrective action to be taken immediately to boost automation and maintain competitiveness.

Due to its size of 12 cm and the ergonomic handle, the verifier can be used flexibly. Depending on the verification situation, there is the option of mounting the tablet PC directly on the cube using a universal holder or connecting it to an existing Windows PC/tablet with USB-3 interface.

Areas of application

- Offline device
- Mobile use as stand-alone device or with PC
- Verification of 1D/2D code quality according to international standards, GS1 and other specifications
- Ensuring high first read rates
- Capture and recording of all production relevant data in relation to production batches

REA VeriMax Mobile with external 10,1“ tablet and mounted 8,4“ tablet

Features

- Code verification by a CMOS camera system
- Measurement of optical codes with defined angles, distances and illuminations (ISO standard-compliant)
- Darkened measuring chamber to avoid ambient light influences
- Verification according to ISO/IEC 15415 for printed matrix codes and ISO/IEC 15416 for printed barcodes
- Verification according to ISO/IEC 29158 (formerly AIM DPM guideline 2006)
- Verification in compliance with GS1specifications
- Verification of optional parameters to optimize the print process
- ISO/IEC 15418 / ANS MH10.8.2 Data structure analysis
- If required, adapted cover plates can be constructed

Advantages

- Specific code selection and configuration for all industries
- Can be used as stand-alone device or optionally with connection to 8.4“ or 10.1“ touchscreen-optimized tablet PC
- User detaches from stationary workstation and can speed up verification processes
- Settings for user-defined profiles for easy operation and faster selection
- Device, interface and evaluation software supplied as a package
- High measurement accuracy and measurement repeatability due to optimized design
- Monitoring of all marking requirements, regardless of the qualification of the personnel used
- Multilingual user interface and reports

Code Types

Matrix Codes (2D)

ISO/IEC 16022 Data Matrix, ISO/IEC 18004 QR-Code, ISO/IEC 24778 Aztec Code, ISO/IEC 20830 Han Xin Code, AIM ISS DotCode, ISO/IEC 15438 PDF417, ISO/IEC 24728 MicroPDF417

Barcodes (1D)

ISO/IEC 24723 Composite Code, ISO/IEC 15420 EAN/UPC (EAN-13, EAN-A, UPC-A, UPC-E and Add-On), ISO/IEC 15417 Code 128, ISO/IEC 16388 Code 39 (with PZN and Code 32), ISO/IEC 16390 interleaved 2 of 5 including ITF-14, ISO/IEC 24724 GS1 DataBar

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, Russian Crypto Code, China Drug Supervision Code, Japan CVS payment Code, UPU-S10 Postal Codes, DPD Parcel Service

Data structures and code properties

- GS1 data structures: GS1 DataMatrix, GS1 QR-Code, GS1-128, GS1 Databar, GS1 Composite Code), Crypto Code (GS1 General Specifications)
- ISO data structures: ISO/IEC 15418 / ANSI MH10.8.2, ISO/IEC 15459 (part 1 to 8), ISO/IEC 15434 used by Issuing agencies and associations: AIAG, Odette, VDA, EDIFICE, HIBC, DOD, UPU, JEISA, JEITA, IFA ...)
- ISO 28219, ISO 22742, ISO 15394
- EFPIA and PPN support for pharmaceutical industry (delegated Act EU 2016/161 and UDI/MDR 2017/745, 2017/746, US DSCSA, Turkey and more, US GUDID alignment (UDI)
- DOD MilStd 130 IUID support, AIT (German Armed Forces)
- Check digit control settings
- Size control settings
- Customizable date verification
- Optional database (item number verification)

Evaluation

- ISO/IEC 15416 for barcodes, ISO/IEC 15415 for 2D Codes
- ISO/IEC 29158 and SAE AS 9132 for DPM
- GB/T 14258 (China barcode), ANSI X3.182

Technical Data

Focal length	Field of view	Typical X-dimension	Minimum X-dimension		Pixel size
12 mm	45 x 34 mm	0,22 mm	0,13 mm	5 mil	22 µm

- Measurement accuracy compliance to ISO/IEC 15426-2 and ISO/IEC 15426-1
- REA VeriMax Mobile software for Windows included
- Housing milled from solid aluminum
- Protection class IP54
- Red light-LED 660 nm
- Illumination angle 45°
- Status LED
- Power supply via USB-3 port

- One button at device to start measurement
- Camera resolution 2054 x 1542 pixel
- Camera focus and aperture pre-adjusted by factory
- 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 11, 64-bit

Flexible handling in incoming goods

Comfortable code verification overhead

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