DMR420 Verifier

ISO/IEC 15415 verification of printed Data Matrix Codes

compact – operator friendly and intuitive - intelligent

In many industries, such as medical technology, the automotive industry, and food production, product traceability is crucial. A verified Data Matrix code enables seamless tracking from the manufacturer to the end consumer. Faulty or hard-to-read codes can lead to significant issues in the supply chain, identification problems, or patient safety concerns. Particularly in the medical field, the correct and unambiguous identification of products is of utmost importance. For this reason, a minimum quality standard for UDI (Unique Device Identification) coding has been specified in regulatory requirements, which also meets the strict standards of the FDA and the MDR in the field of medical products for UDI codes.

The new DMR420 Verifier System was specifically developed for testing printed 2D codes on paper and labels, setting new standards in quality assurance. It is calibrated and equipped with compliant 45° lighting to ensure precise and reliable evaluation,

meeting the stringent requirements of the FDA and MDR for UDI codes in the field of medical devices.

Operation is straightforward via the internal web interface with any Internet browser, or you can use our optional documentation software, "Q-Report." In both cases, you can quickly generate a quality report in PDF format, providing proof of the delivered quality. For GS1 codes, Q-Report software is used to evaluate the data structure and check the format.

Our team will be happy to assist you to find the perfect solution for your requirements.

DMR420 Verifier
Technical Data

Usage	Verification of printed Data Matrix Codes (ECC200) according to ISO/IEC 15415
Sensor technology	CMOS, 1440 x 1080 Pixel
Lightning	LED red 660nm
Field of view	approx. 47x35mm (DMR420-R-MD Verifier system) approx. 23x17mm (DMR420-R-N Verifier system)
Focus/reading distance	Focus: fixed based according to spec Reading distance: 58mm from the edge of the light (ISO/IEC 15415)
Smallest module size	Spec: 10Pixel/module, minimal 5 Pixel 320µm/160µm: DMR420-R-MD Verifier system 160µm/80µm: DMR420-R-N Verifier system
Code typ	Data Matrix (ECC 200)
Code grid size	Data Matrix: up to 48 x 48 square grid or 16 x 48 rectangular grid (larger on demand)
Data capacity	Data Matrix: up to 348 numerical characters, up to 259 ASCII characters (larger capacities on demand)
Marking procedures	All typical markings such as laser, dot peening, inkjet
Interfaces	• Ethernet • PLC lines for triggers, good/bad and busy signals • Profinet
Teach In	Teach-In via browser-based application
Dimensions	approx. 140x140x122mm (without connector)
Weight	approx. 300 g
Operating voltage UB	24V DC (18V - 30V)
Protection class	IP 54, EN 60529
Housing	Aluminum, Diecast , plastic AP33-Pro, RoHS-compliant
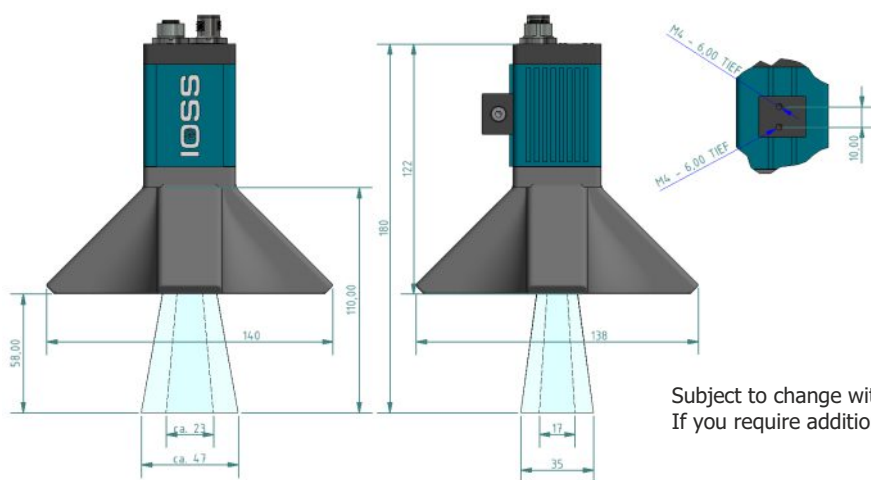
Subject to change without prior notice.
If you require additional information, please contact us.

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