```
ISO/IEC 29158
DMR210 DM 8.4.0

DPM 3.6/08/660/D

010366121907039921504911445

2D-Symbol Grading                   3.6 (A)

Minimum Reflectance      40 %  4.0  (A)
Cell Contrast            42 %  4.0  (A)
Cell Modulation          4.00  4.0  (A)
Distributed Damage       4.00  4.0  (A)
Fixed Pattern Damage     4.00  4.0  (A)
Axial Nonuniformity       6 %  3.6  (A)
Grid Nonuniformity       13 %  4.0  (A)
Unused Error Correction 100 %  4.0  (A)
Mean Dark/Light          45/78
Symbol Reflectance       33
Global Threshold         62
Print Growth X/Y/XY 49/43/48
GS1 Format Check      no GS1 Code
```
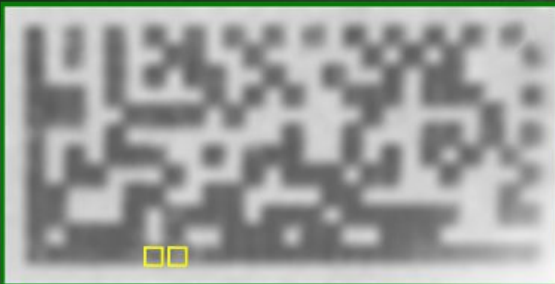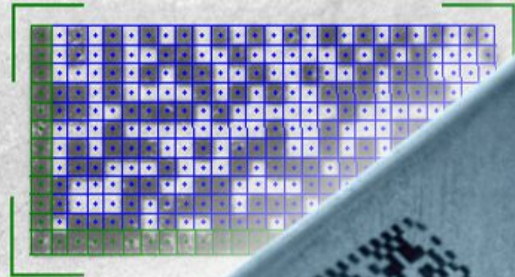

Verifier

Data Matrix reading and verification systems for medical engineering

DMR210 - quality control for data matrix codes

IOSS GmbH from Radolfzell on Lake Constance is a manufacturer of 2D code reading and verification systems for quality assurance and process automation.

The end-to-end traceability of medical devices and the improvement of patient safety play a crucial role in the quality assurance of medical engineering. Unique product identification through UDI-conformant labelling is required for this purpose. The current ISO/IEC 29158 standard is used for the verification of laser-marked data matrix codes.

The DMR210 system including the standardised lighting offers a reliable quality evaluation of the code for your UDI specifications. The system is delivered to you calibrated according to your specifications by means of a conformance calibration standard enhanced test card and verifies your codes within the prescribed light intensity. In addition, the documentation software "Q-Report" enables you to provide your end client with proof of the delivered quality and readability of the applied data matrix codes.

IOSS GmbH from Radolfzell on Lake Constance - your ideal partner for reading and verification of codes on surgical instruments and medical products.

Be prepared in good time for the requirements of the FDA.
You can contact us by phone on +49 (0)7732-982796-0 or by e-mail at info@ioss.de.

Verifier Medical Engineering
Technical Data

Application area	Verification of directly marked data matrix codes, e.g. UDI codes on medical products and surgical instruments
Sensor technology	Progressive scan CCD, 640 x 480 or 1024 x 768 pixels
Reading distance	approx. 3 – 10 mm, depending on the application
Smallest module size	from 60µm, depending on optical characteristics and sensor
Code grid size	Data Matrix: Up to 48 x 48 square grid or 16 x 48 rectangular grid (larger on demand)
Quality rating	According to ISO/IEC 29158
Code orientation	positioned according to the standard
Interfaces	Ethernet
Dimensions	70 x 81 x 218 mm (system), 400 x 500 x 500 stroke (stand)
Power supply	24 V DC
PC system requirements for Q-Report	PC from Windows 7, 2GB Ram, 500MB free hard disk space, 2x LAN port, monitor with min. 1680x1050 pixels resolution

Subject to change without prior notice. If you require additional information, please contact us.

DPM verifier with stand

Q-Report: Documentation software as proof of the quality and readability of the data matrix code

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