

ISO/IEC 29158  
DMR210 DM 8.4.0

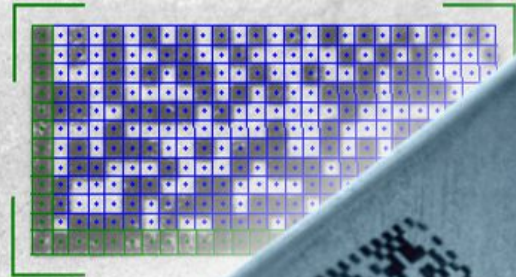
DPM 3.6/08/660/D

01036612190703992150491445

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			

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# 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](mailto:info@ioss.de).



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Further information online at: [www.ioss.de](http://www.ioss.de)

# Verifier Medical Engineering

## Technical Data

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