



# DMR220

## Fixed Mount Reader for 2D Codes

**Compact - Powerful - Reliable!**

The new, compact code reading system offers highly reading reliability even for directly marked codes even under difficult conditions in industrial environments. This smart product from the IOSS product range is compact, powerful and reliable and is available with a high IP67 protection rating. The flexible optical system and integrated LEDs allow 2D codes to be quickly and reliably decoded from domed, mirrored or painted surfaces. The DMR220 system is very versatile and can be used in almost any application scenario in industrial environments.

Communications and connectivity can be flexibly configured using different interfaces. The simple, intuitive graphical user interface allows you to quickly and easily configure the DMR220 system for your application. A reliable inline evaluation of the code is possible according to various criteria as an option. The evaluation is according to ISO/IEC 29158 for contrast-based codes, and according to "Rated Reading" for dot peening codes.



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## Technical data



<b>Application area</b>	Reading of 2D codes, focus on directly marked Data Matrix codes (ECC200), QR Code, (barcode 39, 128)
<b>Sensor technology</b>	CMOS sensor 752 x 480 pixels, global shutter (optional: 1280 x 1024 or 1600 x 1200 pixels)
<b>Reading speed</b>	Up to 20 readings/second
<b>Motion speed</b>	Up to 5 m/s
<b>Reading distance</b>	10 – 1500 mm, depending on lens and lighting conditions
<b>Image size</b>	2 – 150 mm, depending on lens
<b>Smallest module size</b>	Up to 20 µm, depending on lens
<b>Code grid size</b>	Data Matrix: Up to 48 x 48 square grid or 16 x 48 rectangular grid (larger on demand) QR Code: Up to 53 x 53 (version 9, EC level "L")
<b>Data capacity</b>	Data Matrix: Up to 348 numerical characters, up to 259 ASCII characters (larger capacities on demand) QR Code: Up to 552 numerical characters, up to 335 alphanumerical characters, up to 230 bytes (larger capacities on demand)
<b>Quality rating</b>	Optional: according to ISO/IEC 29158 or "Rated Reading" for dot peening codes
<b>Marking procedures</b>	All typical markings such as laser, dot peening, inkjet, drilled
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• Ethernet</li> <li>• RS232</li> <li>• 3 PLC lines for triggers, good/bad and busy signals</li> <li>• Optional: Profibus/Profinet</li> </ul>
<b>Teach In</b>	Simple configuration via graphical user interface
<b>Dimensions</b>	85 x 52 x 42.5 mm (without protective tube)
<b>Weight</b>	Approx. 400 g (incl. lens and protective tube)
<b>Power supply</b>	24 V DC / 1 A
<b>Temperature range</b>	0 – 40° C
<b>Protection rating</b>	IP67, when used with protective lens tube
<b>Housing</b>	Aluminium, anodized

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



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