



# DMR410/420

**DPM Code Reader next generation - automatically learning by reading**

**compact - user-friendly – intelligent**

With the DMR4xx line, IOSS offers one of the most powerful DPM reading systems of the next generation, applicable to all data matrix codes.

The essential special feature of the intelligent system is “automatic learning” during the running process. The more codes the reader reads, the more strategies the integrated software independently generates or optimises and thus becomes insensitive to possible fluctuations in the process. The result of this outstanding feature is unsurpassed process reliability. This function makes the system unique and sets it apart from all other code readers.

The reading system is not only small and compact, but also very simple and convenient for the user to adapt to individual needs. Of course, the new readers have functions such as autofocus and automatic light setting.

A laser pointer for easy alignment is integrated and optionally two different polarisation filters are available to eliminate reflections. This means that the code reader no longer has to be laboriously adapted and the production lines can be designed more flexibly. The reader not only offers the highest reading reliability in difficult environments - the various interfaces, e.g. Profinet, also simplify integration.

The code reader is available in two sensor resolutions. Depending on the task, the readers are available with different lenses and illumination colours.

With the intelligent and powerful DMR410/420 code readers, reading processes are automatically optimised. The new additional functions of the reader support this, combined with a simple and intuitive operation.



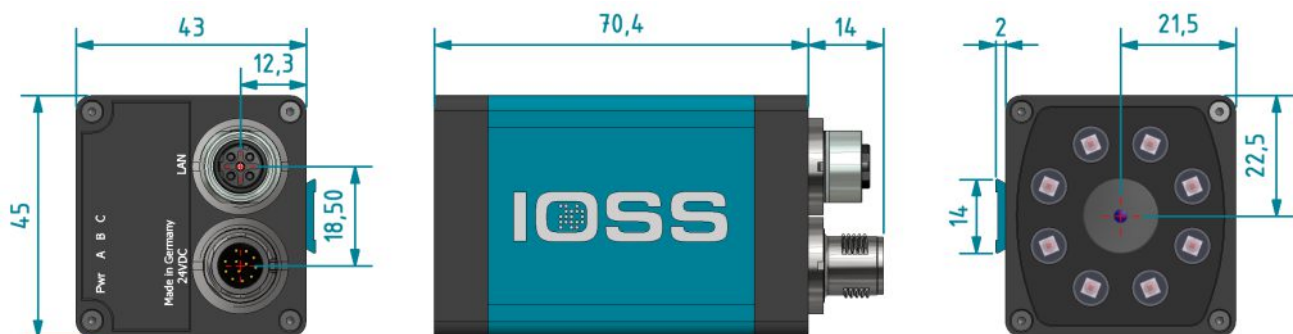
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## Technical Data



<b>Application area</b>	Reading of 2D codes, focus on directly marked Data Matrix codes
<b>Sensor technology</b>	CMOS, 800 x 600 or 1440 x 1080 pixels
<b>Lighting</b>	LED red / infrared Target laser: red, laser class 1
<b>Motion speed</b>	Up to zu 5 m/s
<b>Reading distance</b>	10 – ∞ mm, depending on lens and lighting conditions, Autofocus
<b>Image size</b>	from 5 x 6,5 mm, depending on lens and lighting conditions
<b>Code grid size</b>	Data Matrix: Up to 48 x 48 square grid or 16 x 48 rectangular grid (larger on demand)
<b>Data capacity</b>	Data Matrix: Up to 348 numerical characters, up to 259 ASCII characters (larger capacities on demand)
<b>Marking procedures</b>	Alle typical markings such as laser, dot peening, inkjet, drilled, etched
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• Ethernet</li> <li>• PLC lines for triggers, good/bad and busy signals</li> <li>• Profinet</li> </ul>
<b>Teach In</b>	Automatic Teach-in and continuous optimization of reading strategy in process
<b>Dimensions</b>	70,4 x 45 x 45 mm (without plug)
<b>Weight</b>	Approx. 200 g
<b>Power supply</b>	18-30 V DC
<b>Temperature range</b>	0 – 50° C
<b>Protection rating</b>	IP67
<b>Housing</b>	Aluminum, Diecast, ROHS-compliant

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



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