



DMR410/420

First AI based code reader from IOSS - automatically learning by reading

compact - process reliable – 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 self-optimisation of the reading strategy results in very high 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, automatic light setting and automatic teach-in.

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.

The powerful code readers of the DMR4XX line with intelligent adaptation of the reading strategy enable maximum process reliability combined with very simple and convenient operation.



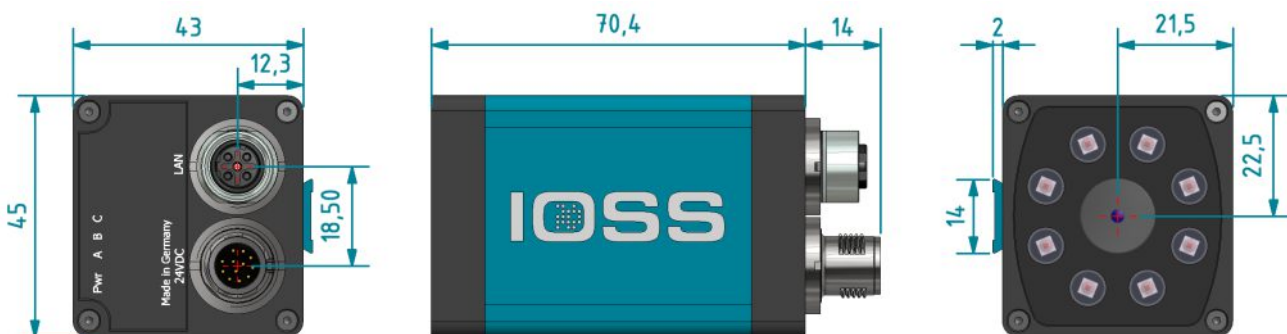
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Technical Data



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

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



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