

# DMT100

## Medical Tool Reader

**Innovative Desktop Reading System for medical engineering!**

The DMT100 reading system was specially developed by IOSS to quickly and reliably identify surgical instruments by reading their Data Matrix codes. The innovative DMT100 system benefits from the synergy effects resulting from the successful collaboration between renowned surgical instrument manufacturers and IOSS GmbH.

In today's medical world, efficient cost management together with patient safety and legal security are more important than ever. Identification and traceability of the products are necessary according to the UDI identificiation.

The DMT system can easily read codes on any variety of brushed, matt or mirror finished surfaces even codes that are worn down after many washings. Regardless of the code size, the system can reliably read markings on highly curved surfaces or cylinders with small radii.

The tried-and-tested illumination concept utilized in the DMH200 handheld system has been expanded to included additional lighting channels. The DMT100 system selects automatically the suitable channel to secure the identification of the code.

By clearly identifying all medical instruments, it becomes possible to reliably trace them throughout their entire service life. Once captured, the Data Matrix data allows medical professionals to uniquely identify, trace and document proceedings and thus establish reliable operating conditions for further process optimization and cost reduction.

Identify your surgical instruments and medical devices easily, securely and quickly using the IOSS DMT100 Medical Tool Reader.

We are proud to be your expert partners.

**An additional quality control of data matrix codes is made possible with our DMR210 Verifier!**

# DMT100
## Technical data

| | |
|---|---|
| **Application area** | Reliable reading of directly marked Data Matrix ECC200 Codes on metallic surfaces, e.g. chirurgical instruments and medical devices |
| **Sensor technology** | Progressive scan CCD, black/white, 1024 x 768 pixels |
| **Reading speed** | Up to 20 scans/second |
| **Reading distance** | 0 – 3 mm |
| **Reading field size** | 15 x 15 mm |
| **Smallest module size** | Approx. 80µm, depending on marking quality |
| **Code grid size** | Up to 48 x 48 (square) or 16 x 48 (rectangular)<br>(larger sizes available on demand) |
| **Code type** | ECC 200 |
| **Data capacity** | Up to 348 numerical characters, up to 259 ASCII characters<br>(larger capacities available on demand) |
| **Code orientation** | Any |
| **Lighting** | Integrated, multi-channel LEDs,<br>automatic alternation |
| **Interfaces** | • Ethernet<br>• RS232<br>• USB (Keyboard Emulation) |
| **Trigger** | Auto Trigger Mode |
| **Teach In** | Very easy parametrization via graphical user interface |
| **Dimensions** | 70 x 80.5 x 134 mm |
| **Weight** | Approx. 500 g |
| **Power supply** | 12 - 24 V DC |
| **Temperature range** | 0 – 40° C |
| **Protection rating** | IP54 |
| **Housing** | Aluminium, anodized |

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

Intelligente optische Sensoren & Systeme GmbH
Fritz-Reichle-Ring 18
D-78315 Radolfzell
Tel.: +49 (0) 77 32 98 27 96 - 0
Fax.: +49 (0) 77 32 98 27 96 -11
info@ioss.de
www.ioss.de

IOSS
THE SENSOLUTION COMPANY