# Press release

# Code reading without compromise

The new DCR 100i series code reader from Leuze reliably captures 1D and 2D bar codes and provides an adjustable focus for a flexible working distance within the reading field.

*Owen, 5 December 2025 –* Whether on printed circuit boards, assemblies, or moving packaging, tracking and quality control in industrial production require sensors that can reliably detect bar codes. This is where the new DCR 100i series code reader from Leuze comes in: It provides precise reading of 1D and 2D codes through its high-resolution 1.3-megapixel CMOS imager. Users also benefit from simple commissioning and intuitive software.

**Precision across the board**  
Leuze's Sensor People have equipped the DCR 100i code reader with powerful decoding algorithms and flexible focus areas. The sensor thus reliably detects even small 1D and 2D bar codes from different distances. With a frame rate of 120 frames per second, the DCR 100i captures even fast-moving objects – ideal for systems with high process speeds of up to two meters per second. DPM codes applied directly to components are also detected. This is particularly important in the electronics industry. Another advantage: The DCR 100i’s large field of view allows it to read multiple codes simultaneously. This allows it to identify complex or grouped packaging efficiently.

**Exact focus**

System operators can flexibly adapt the DCR 100i to different working distances, code sizes and surfaces using the manually adjustable focus. Four selectable focus ranges – from very short (40 mm) to a long operating range (550 mm) – enable sharp images and high read rates in any application. This gives system operators maximum flexibility for various industrial application scenarios.

**Integrated in no time**  
Users can conveniently set up the code reader directly on the device: Integrated trigger and teach buttons as well as automatic adjustment of exposure, illumination and decoding allow fast and error-free commissioning without requiring a PC. The DCR 100i series provides Ethernet connectivity and supports industrial protocols such as Modbus and TCP/IP, as well as the RS232 serial interface. This allows the device to be integrated seamlessly into different automation systems.

**Robust design**  
The DCR 100i also stands out for its compact and robust design: The sturdy aluminum housing with protection class IP64 reliably protects the device from dust and splash water. A glass cover provides lasting protection for the optics. With its space-saving dimensions (44 x 53 x 29 millimeters), the code reader is easy to integrate into industrial environments.

Characters: approx. 2,800  
   
Please send a sample copy.  
Interviews available upon request.

**Image material**

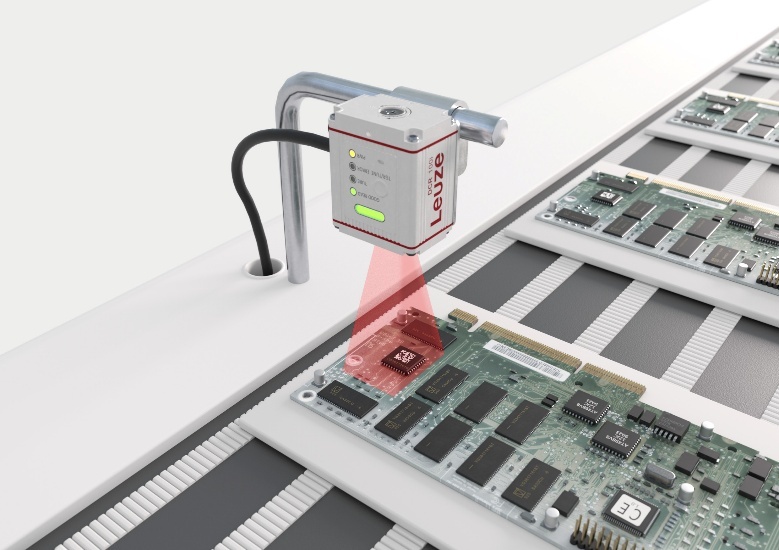


Figure 1: The new DCR 100i series code reader reliably captures 1D and 2D bar codes – even in the form of DPM codes.

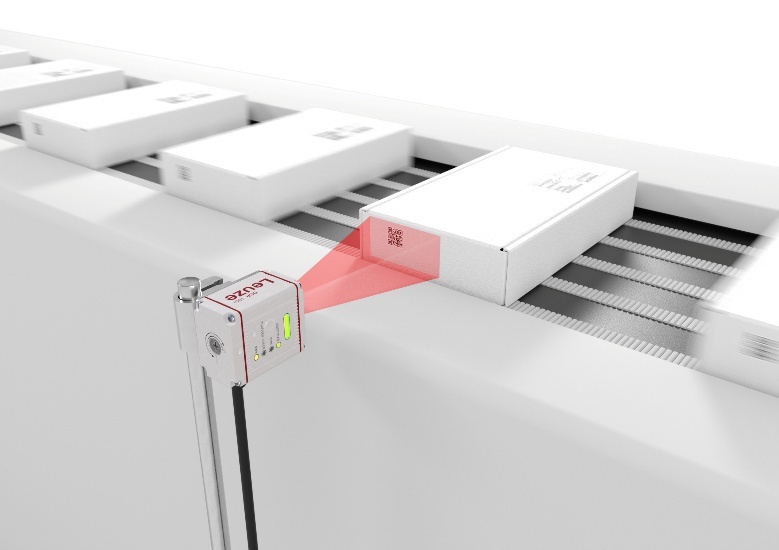


Figure 2: The DCR 100i is ideal for object detection at high speeds, for example in the packaging industry. At 120 frames per second, it enables conveyor speeds of up to two meters per second.

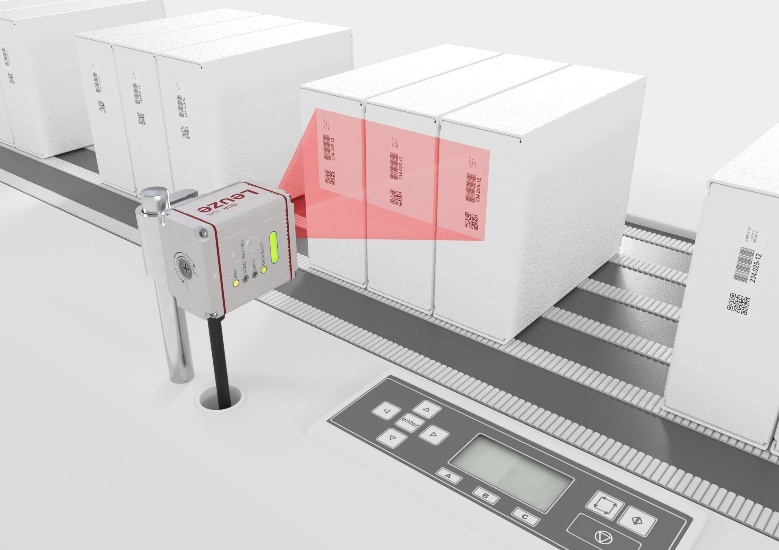


Figure 3: The DCR 100i code reader can read multiple bar codes and 2D codes simultaneously with its large field of view. Its imager is optimized for vertical mounting and provides a wide horizontal field of view as well as optimized reading rates.

*With over 60 years of experience, Leuze has become an expert in innovative and efficient sensor and safety solutions in automation technology. Today, around 1,500 Sensor People worldwide use curiosity, passion and determination to drive progress and change. Their motivation is the lasting success of their customers in a constantly changing industry. Leuze offers its customers an individual competitive advantage through intuitive and reliable solutions for safe and non-safe position detection. For example, switching and measuring sensors, identification systems, solutions for data transmission and image processing. As a family-owned company and safety expert, the company also focuses on components, services and solutions for occupational safety. Thanks to their broad and in-depth application expertise in the machine and system construction, the Sensor People are a competent and flexible partner for customers with a wide range of industrial requirements.* [www.leuze.com](http://www.leuze.com)

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