Uncompromising performance in a compact design

**Cost-effective multicode readers
for demanding production environments**

• Ultracompact design for limited space

• Reads up to 50 codes and 60 images per second

• Reliable decoding up to 3 m/s motion speed

• Ethernet and RS232 interface for flexible connection

IP52

ifm – close to you!

Dimensions [mm]	Illumination	Lens	Camera resolution [MPx]	Interface	Order no.
50 x 50 x 28	red light + white light	wide angle	1.3	Ethernet + RS232	**O2I220**
50 x 50 x 28	white light	wide angle	1.3	Ethernet + RS232	**O2I221**
45 x 52 x 25	red light	standard	1.5	Ethernet + RS232	**O2I232**
45 x 52 x 25	white light	standard	1.5	Ethernet + RS232	**O2I233**
45 x 35 x 25	red light	wide angle	1.5	Ethernet + RS232	**O2I230**
45 x 35 x 25	white light	wide angle	1.5	Ethernet + RS232	**O2I231**

Versatile use

With the new O2I2 series multicode readers, ifm electronic presents a powerful yet cost-effective solution for demanding identification tasks in a compact design.

Typical applications for the O2I2 code readers include product tracking along production lines, order picking, position mark detection in automated guided vehicle systems and retracing of sensitive components in the semiconductor industry.

Small and powerful

The devices are available in compact dimensions, making them ideal for installation in confined spaces.
Despite their small design, they deliver uncompromising performance: with the ability to process up to 50 codes and 60 images per second, they can also cope with highly dynamic applications. Even at object speeds of 3 m/s, the code readers maintain exceptional reliability. The devices can be flexibly integrated into existing systems via the Ethernet and RS232 interfaces.

The multi-camera function adds further versatility for applications with changing code positions: several sensors work together to detect the code and output the data centrally via a master device.

Intelligent algorithms

The innovative integration of deep learning-based AI algorithms ensures outstanding robustness against faults and code defects, making these devices an indispensable tool in modern production environments. This technology also impresses with its high positioning accuracy, even when codes are damaged. Automatic image adjustment and intelligent pre-processing significantly enhance decoding efficiency.

Easy set-up

With the user-friendly "Vision Assistant" PC software, the devices can be configured quickly and easily – even complex identification tasks can be solved in no time.

Suitable accessories

ifm offers a selection of suitable connection cables and mounting brackets for connecting and installing the multicode reader. A complete overview is available on the device product page.
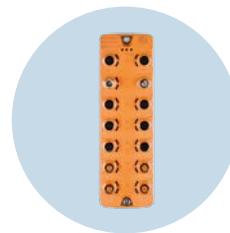
BEST FRIENDS

Vision Assistant
PC software for configuration and parameter setting

Monitoring add-on
Visualisation of images and data on the dashboard

SolutionBlock IO-Link-Master
Multiprotocol interface and integrated Node-RED environment

For further technical details, please visit:
ifm.com/fs/O2I200