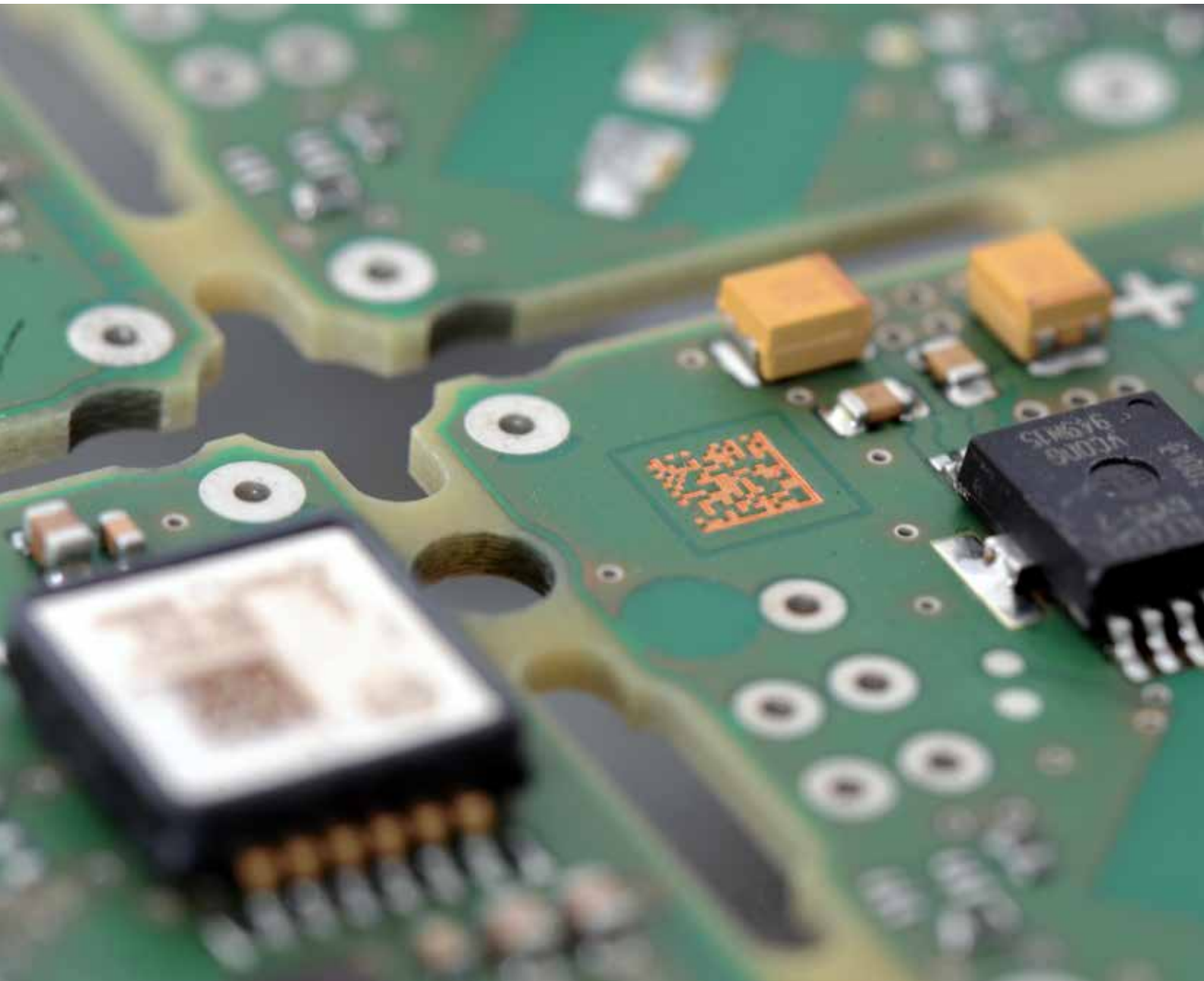


1D/2D and Barcode Scanners





Barcode scanners

The numerous barcode types are as diverse as their application areas. Our range of barcode scanners offers you the suitable product for every application:

- Completeness and quality check for information on barcode labels
- Reading printed or lasered barcodes on shiny materials
- Decoding bar codes with low contrast or poor print quality
- Reading damaged codes
- Product identification during and after manufacture
- Identification of samples in automated distribution systems in the medical or chemical industry

BLN line scanners with CCD array: Simple and efficient

Our red-light scanners with CCD array can even reliably read barcodes that are printed or lasered on glossy materials – even when these are low contrast or the code is of a poor quality. The Ethernet interface enables fast data transfer.

- Long service life
- Graphic display
- Integrated web server
- Time-saving installation
- Scan rate: 530 scans/s
- Temperature range: –20...50°C
- Degree of protection: IP67
- Reads all established barcodes



Laser scanners:

Line, raster, and sweep raster scanners

- Integrated code reconstruction:
Reads damaged, poorly applied or distorted codes at a high speed
- Confirms successful decoding by a green light and an acoustic signal
- Degree of protection IP65
- Easy data transfer via EtherNet/IP, Ethernet TCP/IP, RS-232
- Quick installation due to Ultra-Lock™ connection
- Control panel with LED display for quick set-up and diagnosis
- Free software for comfortable set-up via PC
- Low wiring effort thanks to bus technology
- Connection of several scanners via daisy chain or multidrop
- Link to bus systems through separate gateways

Line scanners

FIS-0003:

For scanning high density barcodes

Line scanners impress in the scanning of high density barcodes and even scan from a great distance. In automatic calibration mode, the line scanner automatically adjusts the scan rate and scan width to suit the corresponding application. The scanner's small size allows it to be used in very confined spaces.

- Scan rate: 350...1,000 scans/s
- Temperature range: 0...50°C
- Degree of protection: IP54
- Reads all established barcodes



Raster scanners

FIS-0830:

For high flow rates

Raster scanners have a wide scan range and are designed for fast, stationary applications: They scan bar codes using very high frequencies of up to 1,400 scans per second. The auto calibration mode can be started via the Teach-in button. In this mode, the scanner independently adjusts the scan rate and scan width to suit the relevant application.

- Scan rate: 300...1,400 scans/s
- Temperature range: 0...50°C
- Degree of protection: IP54/IP65
- Reads all established barcodes
- Integrated code reconstruction



Sweep raster scanners

FIS-0870:

For scanning of large areas

Sweep raster scanners, with a maximum oscillation rate of 80 cycles per second, capture large areas easily and can read multiple codes in a single pass. The deflection angle of the oscillating mirror can be adjusted individually.

- Scan rate: 300...1,400 scans/s
- Temperature range: 0...50°C
- Degree of protection: IP65
- Reads all established barcodes
- Integrated code reconstruction





1D/2D code scanners

1D/2D code scanners read any code at the push of a button, from simple barcodes to complex, directly marked 2D codes. The use of innovative and patented lighting technology allows the wenglor scanners to read any code, even on difficult surfaces such as shiny or curved surfaces, without problems and independent from the scanning direction.

FIS-0004:

The compact basic model

FIS-0004 scanners reliably read 1D and 2D codes in static applications, independent from the scanning direction.

- Scan rate: 10 scans/s
- Temperature range: 0...40°C
- Degree of protection IP54
- Reads all established barcodes as well as 2D codes (DataMatrix, PDF417, Micro PDF417, QR code, Micro QR code, Aztec code, GS1 Databar, RSS codes)

FIS-6300-01:

The allrounder

With its unbeatable value for money the FIS-6300-01 is the scanner of your choice for most applications. It reliably reads even millimeter-sized codes.

- Scan rate: 10 scans/s
- Temperature range: 0...40°C
- Degree of protection: IP54
- Autofocus
- Reads all established barcodes as well as 2D codes (DataMatrix, PDF417, Micro PDF417, QR code, Micro QR code, Aztec code, GS1 Databar, RSS codes)

FIS-6300-11:

The ESD specialist

The FIS-6300-11 is used in sensitive production areas. Its electrically dissipative housing prevents failure due to ESD.

- Scan rate: 10 scans/s
- Temperature range: 0...40°C
- Degree of protection: IP54
- Autofocus
- Reads all established barcodes as well as 2D codes (DataMatrix, PDF417, Micro PDF417, QR code, Micro QR code, Aztec code, GS1 Databar, RSS codes)





FIS-6801: Optimal image sharpness thanks to liquid lens

The integrated liquid lens of the FIS-6801 ensures optimal image sharpness and makes it highly flexible for varying distances. Thanks to the integrated code reconstruction, even damaged, poorly applied or distorted codes can be read using a high speed.

- Scan rate: 60 scans/s
- Temperature range: 0...50°C
- Degree of protection: IP65
- Reads all established barcodes as well as 2D codes (DataMatrix, PDF417, Micro PDF417, QR code, Micro QR code, Aztec code, GS1 Databar, RSS codes)
- Integrated code reconstruction

FIS-6300-51: The sprint expert

The FIS-6300-51 delivers peak performance at high conveyor speeds – it quickly and reliably reads codes at up to 2.5m/s.

- Scan rate: 60 scans/s
- Temperature range: 0...40°C
- Degree of protection: IP54
- Autofocus
- Reads all established barcodes as well as 2D codes (DataMatrix, PDF417, Micro PDF417, QR code, Micro QR code, Aztec code, GS1 Databar, RSS codes)



C50C: The MultiCore high-performance product

This weQubeDecode reads even printed and directly marked codes in motion without problems. It is based on the wenglor MultiCore technology, which connects five high-performance processors with a novel software concept. Benefit from Industrial Ethernet without losing time, innovative 3D tracking, Teach⁺ and other useful functions.

- Temperature range: -10...50°C
- Degree of protection: IP67
- Autofocus
- Reads all established barcodes and 2D codes (DataMatrix, QR code)
- Integrated code reconstruction



FIS-HS: Handheld scanner with easy handling

Thanks to its alignment aid, this mobile handheld scanner detects 1D/2D codes very quickly. The large scanning distance ensures optimal ease of use. The handheld scanner reliably reads directly marked and damaged codes in the automotive and electrical industry. Due to the resistance to cleaning agents it is ideally suited for use in the pharmaceutical industry. Decoding operations are confirmed by vibration as well as an acoustic and visual signal.

- Temperature range: -20...50°C
- Degree of protection: IP54
- Reads all established barcodes and 2D codes (DataMatrix, PDF417, QR code, Micro QR code, GS1 Databar)



FIS-6170: Robust handheld scanner for industrial applications

This mobile handheld scanner achieves excellent results for reading directly marked codes. The choice between short-range or long-range scanning area allows for a very short reading time. Successful reading operations are confirmed by vibration as well as an acoustic or visual signal.

- Temperature range: 0...50°C
- Degree of protection: IP54
- Reads all established barcodes and 2D codes (DataMatrix, PDF417, QR code, Micro QR code, GS1 Databar)
- Excellent reading performance on glossy or curved surfaces thanks to innovative illumination technology
- Integrated code reconstruction



Order number	Distance	Code	Light source	Interface
BLN line scanners with CCD array				
BLNOH1R10	10...120mm	Barcode	Red light	RS-232/Ethernet
BLNOL1R10	35...320mm	Barcode	Red light	RS-232/Ethernet
Line scanners				
FIS-0003-0103	51...254mm	Barcode	Laser (red)	RS-232/422/485
FIS-0003-0104	38...102mm	Barcode	Laser (red)	RS-232/422/485
Raster scanners				
FIS-0003-0105	51...254mm	Barcode	Laser (red)	RS-232/422/485
FIS-0003-0106	38...102mm	Barcode	Laser (red)	RS-232/422/485
FIS-0830-1100	102...762mm	Barcode	Laser (red)	RS-232/Ethernet/IP
FIS-0830-1101	51...254mm	Barcode	Laser (red)	RS-232/Ethernet/IP
FIS-0830-1102	82...228mm	Barcode	Laser (red)	RS-232/Ethernet/IP
Sweep raster scanners				
FIS-0870-0107	102...762mm	Barcode	Laser (red)	RS-232/422/485
FIS-0870-0108	25...304mm	Barcode	Laser (red)	RS-232/422/485
FIS-0870-0109	82...228mm	Barcode	Laser (red)	RS-232/422/485
FIS-0870-1105	102...762mm	Barcode	Laser (red)	RS-232/422/485/Ethernet/IP
FIS-0870-1106	25...304mm	Barcode	Laser (red)	RS-232/422/485/Ethernet/IP
FIS-0870-1107	82...228mm	Barcode	Laser (red)	RS-232/422/485/Ethernet/IP
1D/2D code scanners				
FIS-0004-0101	36...132mm	1D/2D code	Red light	RS-232/422/485
FIS-0004-0102	51...152mm	1D/2D code	Red light	RS-232/422/485
FIS-6300-0101	23...229mm	1D/2D code	Red light	RS-232/422/485
FIS-6300-0102	25...254mm	1D/2D code	Red light	RS-232/422/485
FIS-6300-0103	46...196mm	1D/2D code	Red light	RS-232/422/485
FIS-6300-1100	46...196mm	1D/2D code	Red light	RS-232/422/485
FIS-6300-1101	23...229mm	1D/2D code	Red light	RS-232/422/485
FIS-6300-1102	25...254mm	1D/2D code	Red light	RS-232/422/485
FIS-6300-5112	33...254mm	1D/2D code	Red light	RS-232/422/485
FIS-6300-5113	38...203mm	1D/2D code	Red light	RS-232/422/485
FIS-6801-0111G-01	> 25mm	1D/2D code	Red light	RS-232/422/485
FIS-6801-0211G-01	> 25mm	1D/2D code	Red light	RS-232/422/485
FIS-6801-0311G-01	> 25mm	1D/2D code	Red light	RS-232/422/485
FIS-6801-1111G-01	> 25mm	1D/2D code	Red light	RS-232/Ethernet/IP
FIS-6801-1211G-01	> 25mm	1D/2D code	Red light	RS-232/Ethernet/IP
FIS-6801-1311G-01	> 25mm	1D/2D code	Red light	RS-232/Ethernet/IP
C50C001	< 20mm	1D/2D code	White light	RS-232/Ethernet
C50C002	< 20mm	1D/2D code	Infrared light	RS-232/Ethernet
C50C003	< 20mm	1D/2D code	Red light	RS-232/Ethernet
C50C100	< 20mm	1D/2D code	White light	RS-232/Ethernet/PROFINET
C50C101	< 20mm	1D/2D code	Infrared light	RS-232/Ethernet/PROFINET
C50C102	< 20mm	1D/2D code	Red light	RS-232/Ethernet/PROFINET
1D/2D handheld scanners				
FIS-HS21-0100	38...394mm	1D/2D code	Red light	USB
FIS-HS21-0103	38...394mm	1D/2D code	Red light	RS-232
FIS-HS41X-0100	38...394mm	1D/2D code	Red light	USB
FIS-HS41X-0103	38...394mm	1D/2D code	Red light	RS-232
FIS-6170-0100	0...51mm	1D/2D code	Red light/blue light	USB

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