AIT Goehner

Fully customisable for every purpose

The increasing demands of international trade with its global supply chains mean growing pressure to deliver more and more, faster and faster. From manufacturing to logistics to the end customer, your success depends on being able to move your goods quickly and track them accurately.

The FS70 fixed barcode reader is the configurable and customisable solution for you. It easily keeps pace and enables quality control and track-and-trace for every part and package in production, storage and delivery. Whether you need a high performance lens for reading very small barcodes from a long distance or a wide angle lens for barcodes on very large parts, the FS70 can do it all. External C-mount lenses give you the reading distance and image detail you need for your application and environment. And compatibility with almost any external illumination makes it possible to read even the most difficult barcodes - even direct low-contrast part markings or barcodes on curved or reflective surfaces. The result? World-class production, warehousing, distribution and logistics processes that inspire your business to reach its highest potential.

- ✓ Easy automatic configuration with Auto-Tune
- ✓ PoE+: Power supply via Ethernet
- ✓ Unlimited expansion options with USB-C
- ✓ Programmable I/O connections
- ✓ Supports any external C-mount lens and external lighting
- ✓ Extremely robust for industrial environments
- ✓ Operator and status indicators
- ✓ Additional flexibility through the HMI dashboard
- ✓ Data capture always on the first scan
- ✓ Highest reading rates with perfect images
- ✓ Quick troubleshooting with Golden Image Compare
- ✓ Simultaneous scanning of all barcodes with ManyCode
- ✓ No more production delays thanks to two Ethernet connections

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Technical data	
Physical Characteristics	
Dimensions	63.0 mm x 65.0 mm x 95.0 mm (H x W x D)
Weight	650.0 g
Power	10 to 30 VDC external power supply, 36W max at 24V • Class 4 PoE+ source, 25.5W max • Class 3 PoE source, 13W max • USB Type-C host, 7.5W max at 5V, 1.5A or 15W max at 5V, 3.0A
Configurable IO	(4) Four opto-isolated GPIO: GPIO0,1,2,3 (5) Five non-isolated GPIO: GPIO4,5,6*,7*,8* *Unavailable when External Light Mode is enabled
Interface Ports	• (2) M12 X-Coded 1000/100/10 Mbps Ethernet* • (1) M12 12-pin Power/GPIO/RS-232 • (1) M12 5-pin External Light Power & Control/GPIO • (1) USB 3.0 SuperSpeed Type-C with DisplayPort Alt Mode • *Available with one or two Ethernet ports, PoE is only supported by the primary Ethernet port
Communication Protocols	Ethernet/IP, PROFINET, CC-Link, Modbus TCP, TCP/IP
User Indicators	360° Degree Decode/Job Status LEDs, Power LED, Online/Run LED, Focus Warning LED, Error LED, Ethernet Status LED; Beeper
Performance Characteristics	
Image Sensor	• Monochrome: 2.3 MP (1920 x 1200 pixels) CMOS Sensor with Global Shutter and 3.0 um pixel size • Monochrome: 5.1 MP (2600 x 1952) pixels) CMOS Sensor with Global Shutter and 2.2 um pixel size • Color: 2.3 MP (1920 x 1200 pixels) CMOS Sensor with Global Shutter and 3.0 um pixel size • Color: 5.1 MP (2591 x 1944 pixels) CMOS Sensor with Global Shutter and 3.0 um pixel size
Acquisition Rate	Up to 60 frames/second
Illumination	Supports many standard external illumination system while powered by 24VDC supply
Imager Field of View	Flexible; dependent upon C-mount lens selection
User Environment	
Operating Temp.	• 32° F to 113° F/0° C to 45° C (10-30VDC external power supply, duty cycle-dependent) • 32° F to 113° F/0° C to 40° C (POE, duty cycledependent)
Storage Temp.	-40° F to 158° F/-40° C to 70° C
Environmental Sealing	IP65 and IP67
Humidity	5% to 90% RH, non-condensing

SK210708_01

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2 / 3

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Technical data	
Shock Resistance	EN 60068-2-27, 30 g; 11 ms; 3 shocks on each axis
Vibration Resistance	EN 60068-2-6, 14 mm @ 2 to 10 Hz, 1.5 mm @ 13 to 55 Hz; 2 g @ 70 to 500 Hz; 2 hours on each axis
Supported Symbologies	
1D	Base 32 (Italian Pharmacode), Codabar/NW7, Code 11, Code 39, Code 93, Code 128, GS1 DataBar, I 2 aus 5, UPC/EAN, DPM
2D	Aztec, Composite Codes, DataMatrix, Dotted DataMatrix, Dotcode, MaxiCode, PDF417, Micro PDF417, QR Code, Micro QR, DPM
OCR	OCR-A, OCR-B, MICR, US-Währung, trainable OCR (available on certain models or via an OCR add-on licence)
Software	
Configuration	Zebra Aurora™
Decoder packages and toolsets	Decoder packages and toolsets are SKU-dependent, software upgrades for decoder packages are available per upgrade licence.
Regulatory	
Environmental	EN 50581:2012, EN IEC 63000:2018
Electrical Safety	IEC 62368-1 (Ed.2), EN 62368-1:2014/A11:2017
LED Safety	IEC 62471:2006 (Ed.1), EN 62471:2008
EMI/EMS	EN 55032:2015/A11:2020 (Class B) EN 55035:2017 EN 61000-3-2:2014 (Class A) EN 61000-3-3:2013 47 CFR Part 15, Subpart B, Class B ICES-003, Issue 7, Class B
EU Declaration of Conformity	2014/30/EU, 2014/35/EU, 2011/65/EU.
Accessories	
C-Mount lenses, C-mount filters, lens covers, external illumination, brackets, cables, power supplies	

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3 / 3

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