



NEUROBOT

FS70 Fixed Industrial Scanner

ENABLE PERFORMANCE. INSPIRE POTENTIAL.

SPECIFICATION

Device Characteristics

Dimensions	2.5 in. H x 3.75 in. D x 2.5 in. W 63.0 mm H x 95.0 mm D x 65.0 mm W
Weight	22.9 oz./650.0 g
Power	External power supply: 10-30 VDC, 1.5 A max @ 24 VDC (36 W max) PoE+ supply: Class 4, 25.5 W max PoE supply: Class 3, 13 W max USB-C host: 5 VDC, 3 A max (15 W max)
Configurable IO	Four opto-isolated GPIO: GPIO0,1,2,3 Five non-isolated GPIO: GPIO4,5,6*,7*,8* *Unavailable when External Light Mode is enabled
Color and Material	Industrial green aluminum housing
Interface Ports	Two M12 X-Coded 1000/100/10 Mbps Ethernet* One M12 12-pin Power/GPIO/RS-232 One M12 5-pin External Light Power & Control/GPIO One 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, Modbus TCP, TCP/IP, RS-232
Keyboard Support	USB HID
User Indicators	360° Degree Decode/Job Status LEDs, Power LED, Online/Run LED, Focus Warning LED, Error LED, Ethernet Status LED; Beeper

Supported Symbolologies²

1D	Codabar, Code 39, Code 93, Code 128, I 2 of 5, MSI Plessey, UPC/EAN
2D	Aztec, Data Matrix, DotCode, MaxiCode, PDF417, Micro PDF417, QR Code, Micro QR
OCR	Deep Learning-based OCR via an add-on license ¹ . Supports Latin Letters (A-Z, a-z, digits or one of: !#\$%&'()*+,-./:;<=>?@[^_`{ }~"'''\r\n\t€£¥)

Software

Management	Zebra Aurora
Decoder Packages	1D/2D Standard (5 FPS); 1D/2D Fast (60 FPS); 1D/2D DPM Full (60 FPS) (Decoder packages vary by SKU; software Decoder Package upgrades available via an upgrade license.)
Machine Vision (MV) Toolsets	Sensor, Standard, Advanced (Available via an upgrade license)

Performance Characteristics

Image Sensor	2.3MP: 1/2.3 inch CMOS, global shutter 1920 x 1200 3.0 um square pixels Monochrome 5.1MP: 1/2.5 inch CMOS, rolling shutter 2,592 x 1952 2.2 um square pixels Monochrome
Acquisition Rate	2.3MP: Up to 60 frames/second 5.1MP: Up to 30 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 cycle-dependent)
Storage Temp.	-40° F to 158° F/-40° C to 70° C
Environmental Sealing	IP65 and IP67
Humidity	5% to 90% RH, non-condensing
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

Accessories

C-Mount lenses, C-mount filters, lens covers, external illumination, brackets, cables, power supplies

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 A) EN 55035:2017 EN 61000-3-2:2014 (Class A) EN 61000-3-3:2013 47 CFR Part 15, Subpart B, Class A ICES-003, Issue 7, Class A

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