



NEUROBOT

FS20 Fixed Industrial Scanner

ENABLE PERFORMANCE. INSPIRE POTENTIAL.

SPECIFICATION

Device Characteristics

Dimensions	1.1 in. H x 3.7 D in. x 2.1 in. W 28.3 mm H x 94.2 mm D 54.6 mm W
Weight	7.76 oz./195 g
Power	External power supply: 10-30 VDC, 313 mA max at 24 VDC (7.5 W) PoE supply: Class 2
Configurable IO	Two opto-isolated inputs: IN 1,2 Two opto-isolated outputs: OUT 1,2
Color and Material	Industrial green aluminum housing
Interface Ports	One M12 X-Coded 1000/100/10 Mbps Ethernet One M12 12-pin Power/GPIO/RS-232
Communication Protocols	Ethernet/IP, PROFINET, Modbus TCP, TCP/IP, RS-232
User Indicators	Decode Status LEDs, Power LED, Online/Run LED, Ethernet Status LED; Beeper

Performance Characteristics

Image Sensor	1.0 MP (1280x800 pixels) CMOS sensor with global shutter and 3.0 µm pixel size
Acquisition Rate	Up to 60 frames/second
Aimer	Amber LED; circular pattern
Illumination	Two 660nm Red LEDs or two 2700K White LEDs
Imager Field of View	6.0mm Liquid Lens: 35° H x 26° V Nominal

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)

Regulatory

Environmental	EN 50581:2012; EN IEC 63000:2018
Electrical Safety	IEC 62368-1 (Ed.2); EN 62368-1:2014/A11:2017ka
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

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

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: !#\$%&'()*+,-./:;<=>?@[]^_`{ }~"'\€£¥)

Decode Ranges (Typical Working Ranges)³

FS20-SR—35° FOV Lens

Symbology/Resolution	Near	Far
5 mil Code 128	2 in./5.08 cm	10 in./25.4 cm
10 mil Code 128	2 in./5.08 cm	15 in./38.1 cm
15 mil Code 128	2 in./5.08 cm	20 in./50.8 cm
20 mil Code 128	2 in./5.08 cm	24 in./61.0 cm
5 mil DataMatrix	2.5 in./6.35 cm	7.7 in./19.56 cm
10 mil DataMatrix	2 in./5.08 cm	15 in./38.1 cm
15 mil DataMatrix	2 in./5.08 cm	20 in./50.8 cm

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