



## Wide range of functions for intelligent image processing integrated in one package

From the factory floor to the control room, manufacturers are under intense pressure to meet growing business demands. Production lines are expected to deliver consistent quality and meet volume targets every day. Success requires a reliable process at every stage of production, focused on increased automation and defect reduction, and validating installation and tracking information.

Now there is a solution for manufacturing companies: Zebra VS40 - the intelligent camera for machine vision. The VS40 sets new standards in intelligence and automation so that production lines can ensure product quality and achieve production goals. Operations become leaner - only defect-free products are installed in the right product at the right time. The result? Product defects are practically eliminated. Manufacturing costs are lower. And customer satisfaction is higher.

- ✓ Easy automatic configuration with Auto-Tune
- ✓ PoE+: Power supply via Ethernet
- ✓ Unlimited expansion options with USB-C
- ✓ Programmable I/O connections
- ✓ Powerful integrated lighting
- ✓ Extremely robust for industrial environments
- ✓ Operator and status indicators
- ✓ Simple targeting
- ✓ Additional flexibility through HMI dashboard
- ✓ Easy and fast integration with your network infrastructure
- ✓ Highest reading rates with perfect images
- ✓ Quick troubleshooting with Golden Image Compare
- ✓ Detection and correction of setting changes with Job Compare
- ✓ No more production delays thanks to two Ethernet connections



Technical data	
Physical Characteristics	
Dimensions	54.0 mm x 64.0 mm x 91.4 mm (H x W x D)
Weight	400 g
Power	10 to 30 VDC external power supply, 36W max at 24V <ul style="list-style-type: none"> <li>• Class 4 PoE+ source, 25.5W max</li> <li>• Class 3 PoE source, 13W max</li> <li>• USB Type-C host, 7.5W max at 5V, 1.5A or 15W max at 5V, 3.0A</li> </ul>
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	<ul style="list-style-type: none"> <li>• (1) M12 X-Coded 1000/100/10 Mbps Ethernet</li> <li>• (1) M12 12-pin Power/GPIO</li> </ul>

Technical data	
	<ul style="list-style-type: none"> <li>• (1) M12 5-pin External Light Power &amp; Control/GPIO</li> <li>• (1) USB 3.0 SuperSpeed Type-C with DisplayPort Alt Mode</li> <li>• Available with one or two Ethernet ports</li> </ul>
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 (adjustable volume)
Performance Characteristics	
Image Sensor	Monochrome: 2.3 MP (1920 x 1200 pixels) CMOS Sensor with Global Shutter and 3.0 um Pixel Size
Acquisition Rate	Up to 60 frames/second
Aimer	Red Class II Laser; 8-point sunburst pattern
Illumination	Field replaceable modules: <ul style="list-style-type: none"> <li>• (8) 660nm Red LEDs</li> <li>• (8) 470nm Blue LEDs</li> <li>• (8) 850nm IR LEDs</li> <li>• (8) 2700K (Color Temperature) White LEDs</li> <li>• (4) 660nm Red LEDs + (8) 850nm IR LEDs + (4) 470nm Blue LEDs + (8) 2700K (Color Temperature) White LEDs</li> </ul>
Imager Field of View	SR (Standard Range): 10.8mm Liquid Lens (30° H x 19° V Nominal) WA (Wide Angle): 6.8mm Liquid Lens (46° H x 29° V Nominal)
User Environment	
Operating Temperature	<ul style="list-style-type: none"> <li>• 32° F to 113° F/0° C to 45° C (10-30VDC external power supply, duty cycle-dependent)</li> <li>• 32° F to 113° F/0° C to 40° C (POE, duty cycle dependent)</li> </ul>
Storage Temperature	-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 Symbolologies	
1D	Base 32 (Italian Pharma), Codabar/NW7, Code 11, Code 39, Code 93, Code 128, GS1 DataBar, I 2 of 5, Korean 3 of 5, MSI Plessey, UPC/EAN, DPM
2D	Aztec, Composite Codes, DataMatrix, Dotted DataMatrix, Dotcode, Han Xin, MaxiCode, PDF417, Micro PDF417, Postal Codes, QR Code, Micro QR, TLC-39, DPM
OCR	OCR-A, OCR-B, MICR, US Currency, Trainable OCR (available on select models or via an add-on OCR license)
Software	
Configuration	Zebra Aurora™

Technical data	
Decoder and Toolsets Packages	Decoder and Toolsets packages vary by SKU; software Decoder Package upgrades 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/A11:2017
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	
Internal illumination, external illumination, internal filters, brackets, cables, power supplies	