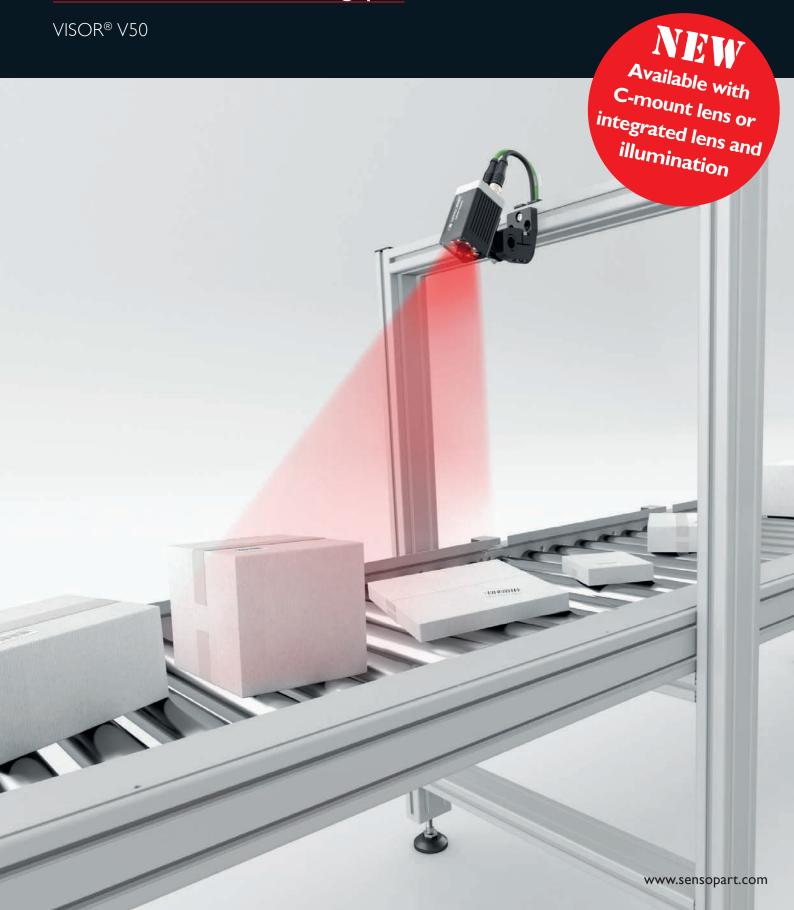


Vision sensor with 5 megapixels for more details

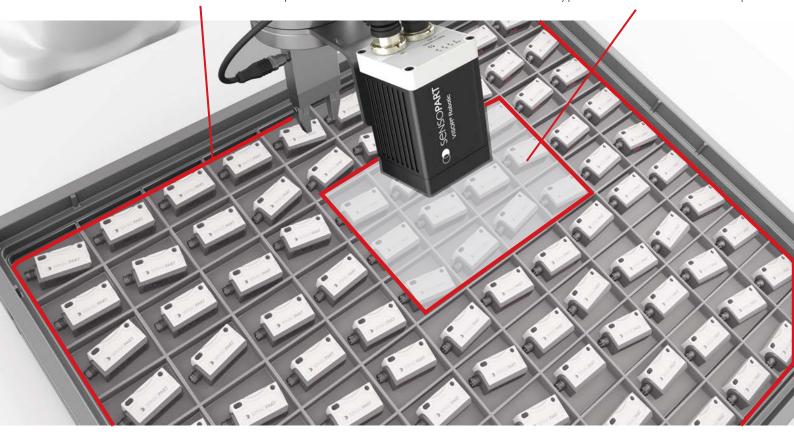




Detects everything at one glance

Resolution V50: 2560 x 1936 pixels

Resolution typical vision sensor: 800 x 600 pixels



The VISOR® V50 captures more objects with higher detail in a single image compared to standard vision sensors.

made in Germany

SensoPart presents a new addition to its established vision sensor family: The new **5 megapixel VISOR® V50** offers an image resolution that is three times greater than that of standard vision sensors.

These new sensors achieve an image quality that was previously only available with expensive, complex vision systems; the potential applications of the user-friendly vision sensors have therefore been considerably expanded.

The field of view or operating distance can be flexibly adapted to the most diverse requirements by selecting a suitable **C-mount lens**. For example, switch from long-range code reading to inspecting an entire instrument panel just by swapping the lens.

All-new integrated lens and lighting versions of the V50 allow automatic focus and brightness adjustments. Changing working distances and image settings can be done instantly with a click of a button.

HIGHLIGHTS OF VISOR® V50

- Resolution of 2560 x 1936 pixels (5 megapixels)
- Monochrome or color version
- NEW all-in-one light + lens versions
- Automatic focus and brightness
- Precise detection of smallest details
- Reduced installation costs with large fields of view by requiring fewer cameras





High performance in a compact design

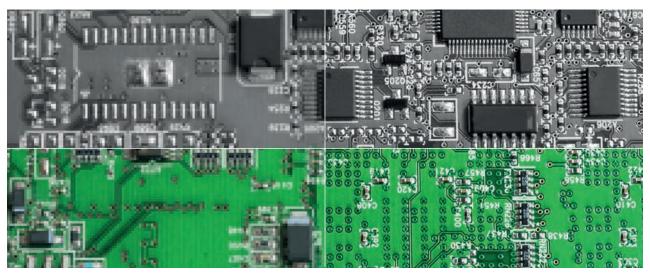
With a resolution of 5 megapixels, the VISOR® V50 is unique on the market. Thanks to global shutter technology, the VISOR® V50 supplies even better results in certain applications – for example, when reading moving bar codes.

Low resolution (monochrome variant):

When recording with low resolution, contours remain partially blurred.

High resolution (monochrome variant):

When recording with high resolution, contours appear clearly, recognition of even small details becomes possible.



Low resolution (color variant):

Through additionally captured color information, further features can be recognised and distinguished.

High resolution (color variant):

The highest evaluation accuracy is achieved by combining high resolution and color variant.

VISOR® V50 – Product overview					
Sensor type / Product variant	Focus applications	Field of view			
V50 Allround Professional	Presence, completeness, measurement, position check, color, reading of bar codes, data codes, text, multishot	C-mount / Medium			
V50 Object Advanced	Presence, completeness, measurement, position check, color	C-mount / Medium / Medium with increased depth of field			
V50 Robotic Professional	Robotics, presence, completeness, measurement, positioning	C-mount / Medium			
V50 Code Reader Advanced and Professional	Reading of bar codes, 2D codes, text	C-mount / Medium / Medium with increased depth of field			
V50 Solar Advanced	Position detection and quality inspection of solar cells	C-mount			



Versions: Allround, Object, Robotic, Code Reader and Solar











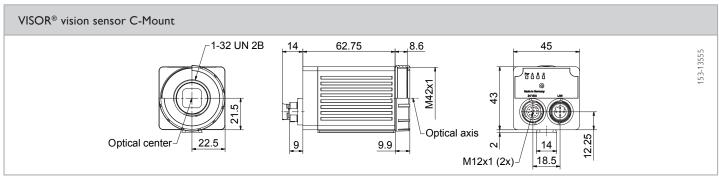
EtherNet/IP

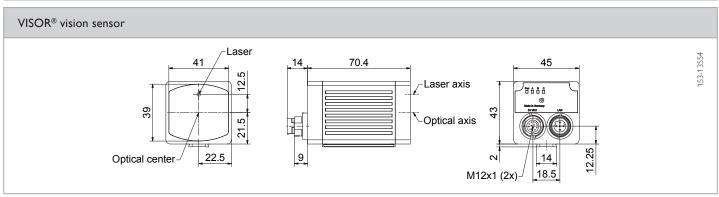
PRODUCT HIGHLIGHTS

- Resolution of 2560 x 1936 pixels (monochrome or color version)
- Precise detection of smallest details
- Reduced installation costs with large fields of view

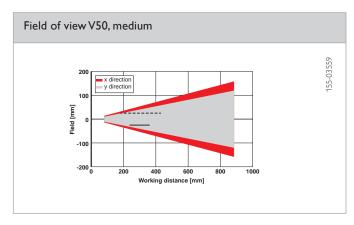
Optical data		Functions	Functions		
Resolution Imaging chip CMOS Integrated lens, focal length [mm] Pixel size Focus Adjustment range Integrated illumination Minimum field of view, X xY Target laser	2560 x 1936 pixels 1/1.8", monochrome / color C-Mount / 20 mm (medium) 2.8 µm x 2.8 µm Motorized 100 mm to infinity White (5000 K), red (635 nm)¹, infrared (850 nm)¹ LEDs 32 x 24 mm Laser: red (635 nm) class 1 (IEC 60825-1	Number of jobs / detectors Detectors (dependent on product version)	max. 255 / max. 255 Position tracking: X/Y and orientatic Pattern matching, contour, 3D contour: teach-in and detection of patterns and contours; Calliper: distance between edges; BLOB, grey threshed brightness: evaluation of brightness: Contrast: evaluation of contrast; Color value¹: output of color values; Color area¹: area inspection of color with selectable tolerance; Color list finding the most similar colors; Barcode: reading 1D bar codes, EAN UPC, RSS, 2/5 Interleaved, 2/5 Indust code 32, code 39, code 93, code 128 GS1, pharm code, codabar; Datacode reading 2D codes: ECC200, QR code GS1, PDF 417; OCR: reading of fonts; Result processing: Text, Math: checkin and calculating with results from detectors		
Electrical data		Mechanical data			
Operating voltage, +U _B Current consumption (without I/O) Protective circuits Power On Delay	18 30 V DC² ≤ 300 mA Reverse-polarity protection, Ug / short-circuit protection of all outputs Approx. 13 s after Power on	Dimensions Enclosure rating Material, housing Material, front screen Ambient temperature: operation Ambient temperature: storage	70.4 × 45 × 45 mm (without plug) IP 67 & IP 65 ³ Aluminium, die-cast, RoHS compliar Plastic 0 +50 °C ⁴ -20 +60 °C ⁴		

 $^{^{1}}$ Color hardware 2 max, ripple < 5 V_{ss} 3 only with protective casing 4 80 % air humidity, noncondensing





Part number	Article no	Part number	Article no	Part number	Article no
V50-ALL-P3-C-2	635-91006	V50-RO-P3-C-2	635-91040	V50-CR-P3-C-2	635-91026
V50C-ALL-P3-C-2	635-91009	V50C-RO-P3-C-2	635-91043	V50-CR-P3-W-M-M2-L	635-91021
V50-ALL-P3-W-M-M2-L	635-91001	V50-RO-P3-W-M-M2-L	635-91035	V50-CR-P3-R-M-M2-L	635-91023
V50-ALL-P3-R-M-M2-L	635-91003	V50-RO-P3-R-M-M2-L	635-91037	V50-CR-P3-I-M-M2-L	635-91025
V50-ALL-P3-I-M-M2-L	635-91005	V50-RO-P3-I-M-M2-L	635-91039	V50-CR-P3-W-MD-M2-L	635-91045
V50C-ALL-P3-W-M-M2-L	635-91008	V50C-RO-P3-W-M-M2-L	635-91042	V50-CR-P3-R-MD-M2-L	635-91046
				V50-CR-P3-I-MD-M2-L	635-91047
V50x-OB-A3-C-2	635-91016	V50-CR-A3-C-2	635-91033		
V50C-OB-A3-C-2	635-91019	V50-CR-A3-W-M-M2-L	635-91028	V50-SO-A3-C-2	635-91044
V50-OB-A3-W-M-M2-L	635-91011	V50-CR-A3-R-M-M2-L	635-91030		
V50-OB-A3-R-M-M2-L	635-91013	V50-CR-A3-I-M-M2-L	635-91032		
V50-OB-A3-I-M-M2-L	635-91015	V50-CR-A3-W-MD-M2-L	635-91048		
V50C-OB-A3-W-M-M2-L	635-91018	V50-CR-A3-R-MD-M2-L	635-91049		
V50-OB-A3-W-MD-M2-L	635-91051	V50-CR-A3-I-MD-M2-L	635-91050		
V50-OB-A3-R-MD-M2-L	635-91052				
V50-OB-A3-I-MD-M2-L	635-91053				



---- Increased depth of field
---- Normal depth of field

Mounting: Brackets and mounting angles for VISOR® and illumination accessories





Scan code for more information

Optical accessories: Lenses, intermediate rings for c-mount, filters, protective casing and polarizer glasses





Scan code for more information

Illumination: Surface lights, ring lights, spot lights, light strips, coaxial lights, DOM, Multishot



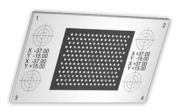


Scan code for more information



Calibration: Calibration plates for VISOR® vision sensors







Scan code for more information

Cables: Power supply cables, Ethernet cables, data cables, cables for illumination. Different lengths, angled or straight



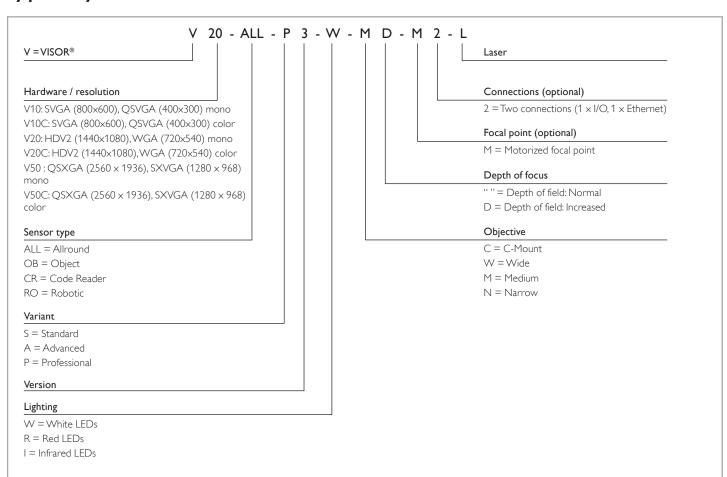






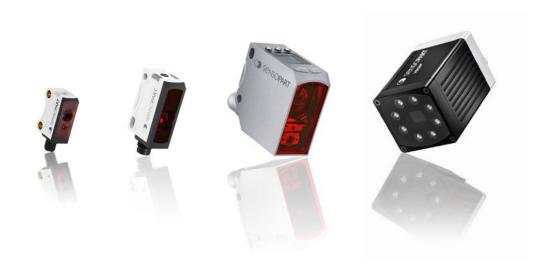
Scan code for more information

Type key



We are SensoPart

SensoPart is one of the leading manufacturers of photoelectric sensors and image processing vision sensors for factory automation. We also offer inductive and ultrasonic sensors, thereby covering a wide spectrum of industrial automation tasks. Our products are used in countless applications and sectors today – from automotive construction and mechanical engineering to electronics manufacturing and the solar industry, as well as the food sector and pharmaceutical industry.



SensoPart worldwide

Germany

SensoPart Industriesensorik GmbH Nägelseestraße 16 79288 Gottenheim Tel. +49 7665 94769-0 info@sensopart.de

USA

SensoPart Inc. 30600 Telegraph Rd. Suite 2345 Bingham Farms, MI, 48025 Tel. +1 866 2827610 usa@sensopart.com

France

SensoPart France Sarl 662, rue des Jonchères – Bât. A F-69730 GENAY Tel. +33 164 730061 info@sensopart.fr

SensoPart China 202, No. 35, Lane 1555 West Jinshajiang Road Jiading District 201803 Shanghai Tel. +86 21 69017660 china@sensopart.cn

United Kingdom

SensoPart UK Limited Pera Business Park, Nottingham Road Melton Mowbray, Leicestershire LE13 0PB Tel. +44 1664 561539 info@sensopart.co.uk

Find your local supplier at: https://www.sensopart.com/en/company/contact/

