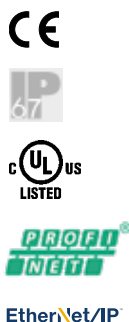


# VISOR® V20 Robotic Professional, C-mount

Vision sensor for object detection, presence check, completeness check, measurement and positioning tasks



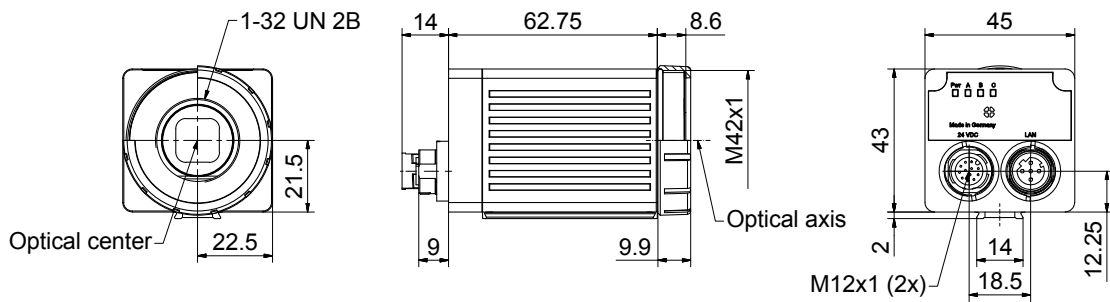
## PRODUCT HIGHLIGHTS

- Calibration methods tailored to the application
- Result offset 3D for direct gripper point transmission to robot
- Easy adjustment of the work plane
- Target Mark technology provides 3D object poses in no time
- Can be used for all common 2D codes, bar codes and OCR

Optical data		Functions	
Resolution	1440 x 1080 pixels	Number of jobs / detectors	Max. 255 / max. 255
Imaging chip CMOS	1/2.9", monochrome / color	Detectors	Position tracking; X/Y and orientation; <b>Pattern matching, contour, 3D contour:</b> teach-in and detection of patterns and contours;
Integrated lens, focal length [mm]	C-mount		<b>Target Mark 3D:</b> 3D pose determination;
Pixel size	3.45 µm x 3.45 µm		<b>Calliper:</b> distance between edges;
Focus	Manual		<b>BLOB, grey threshold, brightness:</b> evaluation of brightness;
Adjustment range	Dependent on lens		<b>Contrast:</b> evaluation of contrast
Integrated illumination	None		<b>Barcode:</b> reading 1D barcodes; EAN, UPC, RSS, 2/5 Interleaved, 2/5 Industrial, code 32, code 39, code 93, code 128, ECC200 GS1, pharm code, codabar;
Minimum field of view, X x Y	Dependent on lens		<b>Datacode:</b> reading 2D codes: ECC200 (GS1), QR code (GS1), Micro QR code, Aztec code (GS1), PDF 417;
Target laser	No		<b>OCR:</b> reading of fonts;
			<b>Result processing: Text, Math:</b> checking and calculating with results from detectors
Electrical data		Mechanical data	
Operating voltage, +U <sub>B</sub>	18 ... 30V DC <sup>2</sup>	Dimensions	70.4 x 45 x 45 mm (without plug)
Current consumption (without I/O)	≤ 300 mA	Enclosure rating	IP 67 & IP 65 <sup>3</sup>
Protective circuits	Reverse-polarity protection, U <sub>B</sub> / short-circuit protection of all outputs	Material, housing	Aluminium, die-cast, RoHS compliant
Power On Delay	Approx. 13 s after Power on	Material, front screen	Plastic
Outputs	PNP/NPN (switchable)	Ambient temperature: operation	0 ... +50 °C <sup>4</sup>
Max. output current (per output)	50 mA, 100 mA (pin 12)	Ambient temperature: storage	-20 ... +60 °C <sup>4</sup>
Switching threshold inputs incl. encoder	PNP/NPN High > U <sub>B</sub> -1V / Low < 3V	Weight	Approx. 200 g
Input resistance	> 20 kΩ	Plug connections	Supply and I/O M12, 12-pin, Ethernet M12, 4-pin
Interfaces	Ethernet (LAN), EtherNet/IP, PROFINET, SensoWeb, Service Port	Vibration resistance	EN 60068-2-6
Inputs/outputs	2 inputs, 2 outputs, 6 selectable inputs/outputs	Shock resistance	EN 60068-2-27
Encoder	✓		

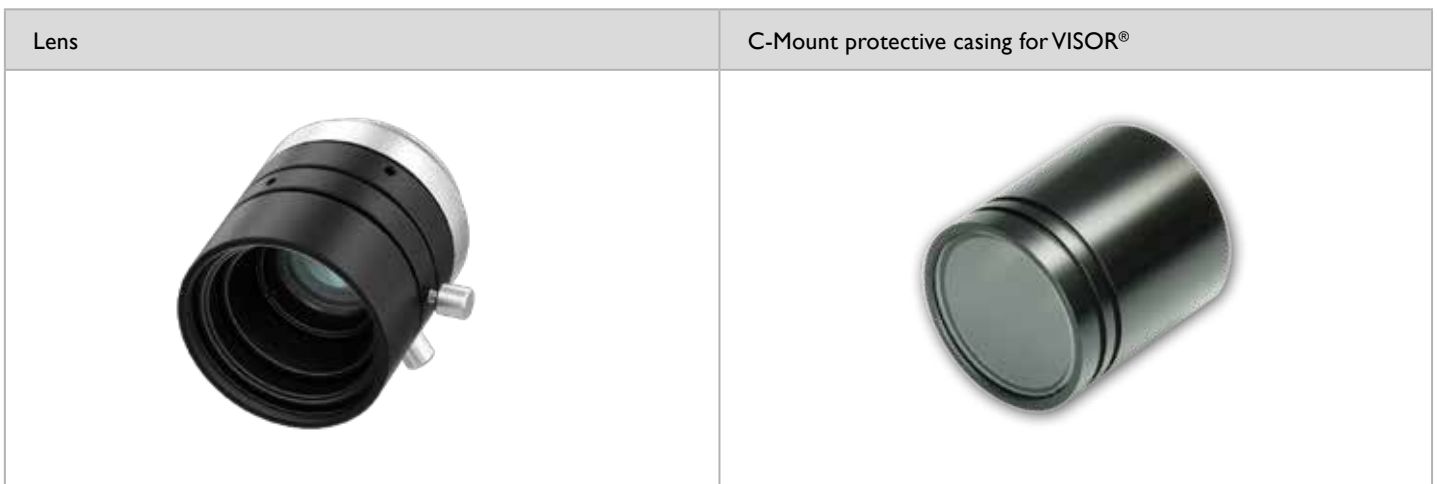
<sup>1</sup> Color hardware    <sup>2</sup> Max. ripple < 5V<sub>SS</sub>    <sup>3</sup> Only with protective casing    <sup>4</sup> 80 % air humidity, noncondensing

VISOR® vision sensor C-mount



153-13555

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Part number	Article number
LPT Vxx-G37.5	651-01006
LPT Vxx-25.0	651-01007

	LOC-08-HD-30.5x0.5	LOC-12-HD-27x0.5	LOC-16-HD-27x0.5	LOC-25-HD-27x0.5	LOC-35-HD-27x0.5	LOC-50-HD-27x0.5	LOC-75-HD-34x0.5
Focal length	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm
Article number	526-51535	526-51536	526-51537	526-51538	526-51539	526-51540	526-51541

Part number	Article number	Accessories
V20-RO-P3-C-2	632-91144	Connection cables
V20C-RO-P3-C-2	635-91133	Illumination
		Lenses
		Brackets
		Interface accessories
		Target Marks

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