VISOR® V50 Code Reader Advanced, medium field of view

Multi-Code Reader for 1D and 2D codes

PRODUCT HIGHLIGHTS

- Can be used for all common 2D codes (ECC 200 data matrix) and common 1D barcodes
- Reliable detection of even poorly readable codes under difficult ambient conditions
- Comprehensive tools for flexible and easy connection to PC and PLC environments
- Reading of several similar or differing types of codes in one reading pass

Optical data		Functions	
Resolution	2560 × 1936 pixels	Number of jobs / detectors	max. 255 / max. 255
Imaging chip CMOS	1/1.8", monochrome	Detectors	**Barcode:** 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; **Datacode:** reading 2D codes: ECC200 (GS1), QR code (GS1), Micro QR code, Aztec code (GS1), PDF 417; **Result processing: Text:** checking and calculating with results from detectors
Integrated lens, focal length [mm]	20 (medium)		
Pixel size	2.8 µm × 2.8 µm		
Focus	Motorized		
Adjustment range	100 mm to infinity		
Integrated illumination	White (5000 K), red (635 nm), infrared (850 nm) LEDs		
Minimum field of view, X × Y	32 × 24 mm		
Target laser	Laser: red (635 nm) class 1 ⚠ (IEC 60825-1)		
Electrical data		**Mechanical data**	
Operating voltage, $+U_B$	18 ... 30 DC[1]	Dimensions	70.4 × 45 × 45 mm (without plug)
Current consumption (without I/O)	≤ 300 mA	Enclosure rating	IP 67 & IP 65
Protective circuits	Reverse-polarity protection, U_B / short-circuit protection of all outputs	Material, housing	Aluminium, die-cast, RoHS compliant
		Material, front screen	Plastic
Power On Delay	Approx. 13 s after Power on	Ambient temperature: operation	0 ... +50 °C[2]
Outputs	PNP/NPN (switchable)	Ambient temperature: storage	-20 ... +60 °C[2]
Max. output current (per output)	50 mA, 100 mA (pin 12)	Weight	Approx. 200 g
Switching threshold inputs incl. encoder	PNP/NPN High > U_B-1 V / Low < 3 V	Plug connections	Supply and I/O M12, 12-pin Ethernet M12, 4-pin
Input resistance	> 20 kΩ	Vibration resistance	EN 60068-2-6
Interfaces VISOR® V20-CR-Advanced	Ethernet (LAN), EtherNet/IP, PROFINET, SensoWeb, Service Port	Shock resistance	EN 60068-2-27
Inputs/outputs	2 inputs, 2 outputs, 6 selectable inputs/outputs		
Encoder	✓		

[1] Max. ripple < 5 V_{SS} [2] 80 % air humidity, noncondensing

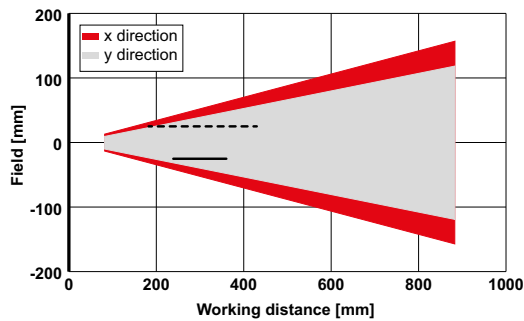Version: 04/2022. Subject to changes; diagrams similar

VISOR® vision sensor
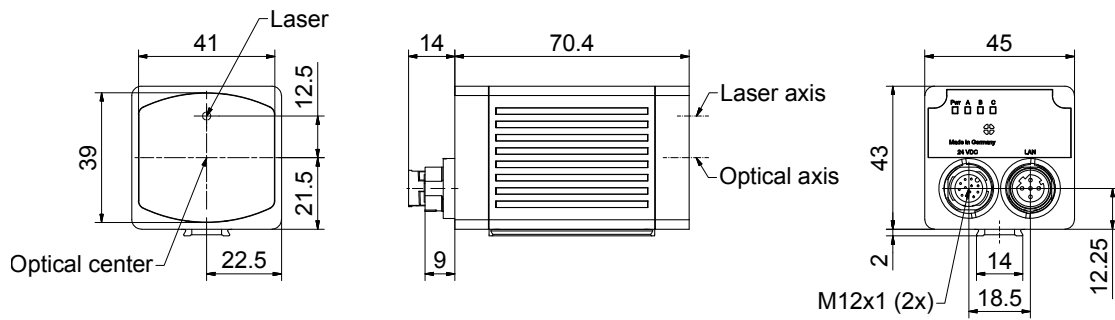
153-13554

Field of view V50, medium

155-03559

- - - - - Increased depth of field

———— Normal depth of field

Illumination	Part number	Article number	Accessories	
White	V50-CR-A3-W-M-M2-L	635-91028	Connection cables	www.sensopart.com/en/accessories
Red	V50-CR-A3-R-M-M2-L	635-91030	Illumination	
Infrared	V50-CR-A3-I-M-M2-L	635-91032	Brackets	
White	V50-CR-A3-W-MD-M2-L	635-91048	Interface accessories	
Red	V50-CR-A3-R-MD-M2-L	635-91049		
Infrared	V50-CR-A3-I-MD-M2-L	635-91050		