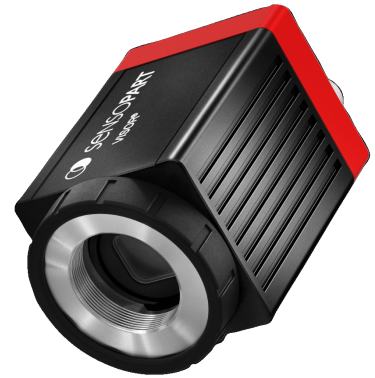


V20-OAI-A4-C-3

Ordering information

Designation for ordering	V20-OAI-A4-C-3
Part number	637-91114
Order text	VISOR® XE V20 Object AI Advanced, C-Mount, LAN interface
Components supplied	VISOR® XE vision sensor, Operating manual, Mounting bracket (MK 45) and Allen key



EtherNet/IP™

Optical data

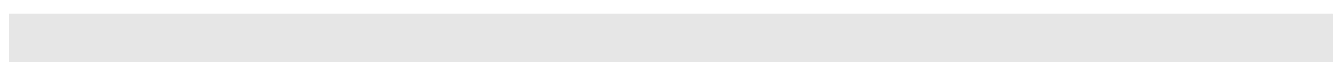
Image chip type	Monochrome
Resolution	SPXGA
Number of pixels (H x V) [px]	1600 x 1200
Imaging chip technology	CMOS
Sensor size ["]	1/2.9
Pixel size [μm]	3.00
Field of view type	C-Mount (field-of-view data depend on the lens used)
Min. field of view (X x Y) [mm]	Abhängig vom gewählten Objektiv
Focus drive	Dependent on the objective lens selected

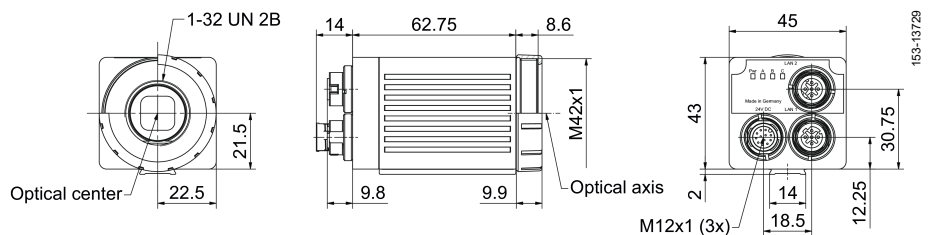
Functions

Network protocol	TCP/IP, Profinet, EtherNet/IP, sFTP, SMB, FTP, Service Port
Hardware	VISOR® XE
Max. number of jobs	255
Max. number of detectors	255
Alignment	Contour comparison, Pattern matching, Edge detection
Available detectors	Pattern matching, Contour, Contour check, BLOB, Brightness, Contrast, Gray level, Caliper, Classification (AI)
Result processing	Numbers
Pre-processing	Arrangement, Filter
Calibration	Board (measurement), Scaling (measurement)
Robotic functions	-
Additional functions	Archiving, Image transmission, individual overlays, Multiple image acquisition, Multiple detection for contour and pattern matching detector, Job checksum

Electrical data	
Operating voltage UB [V DC]	18 ... 30
Typical current draw [mA]	350
Type of voltage source	The device must be supplied by a "Class 2" power supply unit.
Readiness delay [ms]	≤ 16,000
Reverse polarity protection	Yes
Overvoltage protection	No
Residual ripple [%]	≤ 5 Vss, level 3
Explanation of residual ripple	EN 61000-4-17
Polarity	PNP/NPN
Short circuit protection	Yes
Input threshold (High)	> UB-1V
Input threshold (Low)	< 3V
Input resistance [kΩ]	> 20
Max. output current [mA]	50
Explanation of max. output current	max. 100 mA on pin 12
Inductive loads	Typ.: Relay 17 K / 2 H, pneumatic valve 1.4 K / 190 mH
Max. output current (total) [mA]	200
Ethernet transmission rate [Mbit/s]	100
Number of switchable IOs	6
Number of outputs	2
Number of inputs	2
Encoder functions	No

Mechanical data	
Height [mm]	85.0
Length [mm]	45.0
Width [mm]	45.0
Weight [g]	~ 220
Front panel material	PMMA
Housing material	Aluminum (cast)
Connection name	Supply
- Number of pins	12
- Coding	A
- Thread	M12x1
- Material	Metal
- Type	Plug
Connection name	LAN
- Number of pins	4
- Coding	D
- Thread	M12x1
- Material	Metal
- Type	Socket
Connection name	LAN
- Number of pins	4
- Coding	D
- Thread	M12x1
- Material	Metal
- Type	Socket
Ambient temperature: operation [°C]	0 ... 50
Explanation of ambient temperature: operation	< 95% humidity, non-condensing
Ambient temperature: storage [°C]	-20 ... 60
Explanation of ambient temperature: storage	< 95% humidity, non-condensing
Protection class	IP 65, IP 67
Explanation of protection class	For C-mount devices, only in combination with protective tube
Vibration and shock resistance	EN 60068-2-6, EN 60068-2-27



Technical drawings	
Dimensional drawing	 The technical drawings include three views of the device: Front View: Shows a square front panel with a central circular lens. Dimensions include a diameter of 22.5 mm for the lens, a diameter of 21.5 mm for the mounting flange, and a total width of 45 mm. A label '1-32 UN 2B' points to the mounting holes. Side View: Shows the profile of the device. Dimensions include a total height of 85.0 mm, a mounting flange thickness of 14 mm, a main body height of 62.75 mm, and a rear flange thickness of 8.6 mm. The mounting holes are specified as M42x1. The optical axis is indicated. Top View: Shows the top of the device with four M12x1 ports arranged in a square. Dimensions include a total width of 45 mm, a total height of 43 mm, and individual port dimensions of 14 mm by 18.5 mm. The ports are labeled 'M12x1 (3x)'.

Product link
https://www.sensopart.com/en/products/details/637-91114

