

V20C-OAI-A4-C-3

Ordering information

Designation for ordering	V20C-OAI-A4-C-3
Part number	637-91110
Order text	VISOR® XE V20 Object AI Color Advanced, C-Mount, LAN interface
Components supplied	VISOR® XE vision sensor, Operating manual, Mounting bracket (MK 45) and Allen key

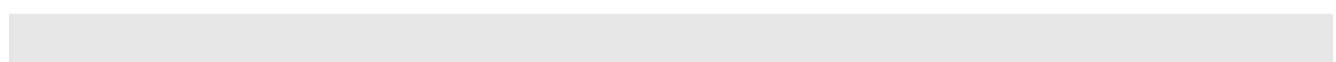


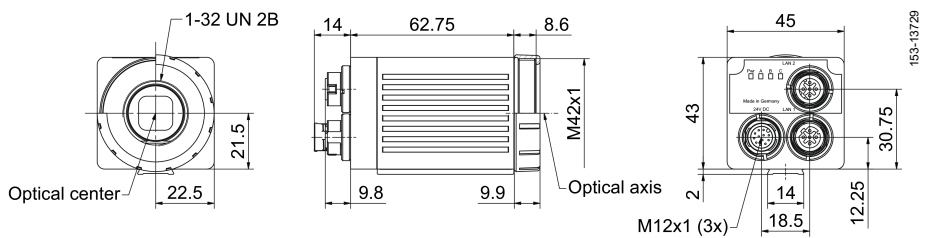
Optical data	
Image chip type	Color
Resolution	SPXGA
Number of pixels (H x V) [px]	1600 x 1200
Imaging chip technology	CMOS
Sensor size ["]	1/2.9
Pixel size [µm]	3.00
Field of view type	C-Mount (field-of-view data depend on the lens used)
Min. field of view (X x Y) [mm]	Abhängig vom gewählten Objektiv
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, Color value, Color area, Caliper, Classification (AI), Color list
Result processing	Numbers
Pre-processing	Arrangement, Filter
Calibration	Board (measurement), Scaling (measurement)
Robotic functions	-
Additional functions	Archiving, Image transmission, individual overlays, Multiple image acquisition, Color channel, color distance and binarization, 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 sensor unit: Front View: Shows a square front panel with a central circular lens. Dimensions include a 22.5 mm diameter for the lens area and a 21.5 mm diameter for the mounting flange. A label '1-32 UN 2B' points to the mounting holes. Side View: Shows the profile of the unit with a total length of 62.75 mm. It features a 14 mm wide mounting flange, a 9.8 mm wide base, and a 9.9 mm wide rear section. A threaded section is labeled 'M42x1'. Top View: Shows the top of the unit with a 45 mm width and 43 mm height. It features four M12x1 ports arranged in a 2x2 grid. Dimensions for the ports include 14 mm spacing and 18.5 mm diameter. A total height of 30.75 mm is also indicated.

Product link
https://www.sensopart.com/en/products/details/637-91110

