

Messen  
Prüfen  
Kontrollieren  
Sortieren  
Positionieren  
Vollständigkeitskontrolle  
Vorhandenseinskontrolle  
Oberflächeninspektion  
Teileprüfung  
Werkzeugvoreinstellung  
3D Sehen  
3D Erkennung  
Robot Vision  
Markierungskontrolle  
Koplanarität  
BGA-Prüfung  
Konturprüfung  
Fehler- und Verschmutzungserkennung  
OCR / OCV  
Zeichenerkennung  
Code Lesen  
Faden- und Stoffprüfung  
Papier- und Folienprüfung  
Metallprüfung  
Displayprüfung LCD, LED, OLED  
Mustervergleich  
Blasenkontrolle  
Robotersteuerung  
Bohrer Vermessung  
Thermografie  
Plastik-Inspektion  
2D  
und vieles mehr...

## Product data:

# EyeSensN ColorInspect

## Next Generation Vision Sensor



### Description:

EyeSensN ColorInspect can detect, filter and sort according to the color of the object.

The camera has a motor zoom and integrated LED illumination. There is also a C-mount version available.

There are many application possibilities e.g. sorting cables, cosmetics, food, electronic component parts, etc.

With only a few commands you can cover the whole color inspection range.

The EyeVision software also offers the drag-and-drop programming with the graphical user interface.
































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Or contact us if you have any questions: **+49 (0) 721 668 004 23**

## Sensor Models

Model	Resolution	Sensor	Focal length [mm]	Integrated illumination	Processor DualCore
ESN CI_0	800 x 600	1/3.6" CMOS	wide (5,2)	LED: white	866 MHz
			medium (9,6)		
			narrow (20)		
ESN CI_1	800 x 600	1/3.6" CMOS	C-Mount	none	866 MHz
ESN CI XHR_0	1440 x 1080	1/2.9" CMOS	wide (6,5)	LED: white	866 MHz
			medium (12)		
			narrow (20)		
ESN CI XHR_1	1440 x 1080	1/2.9" CMOS	C-Mount	none	866 MHz

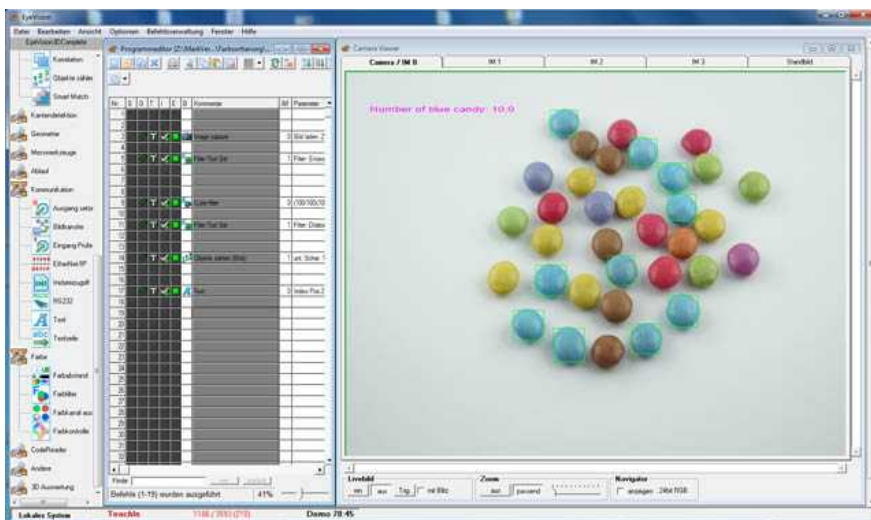
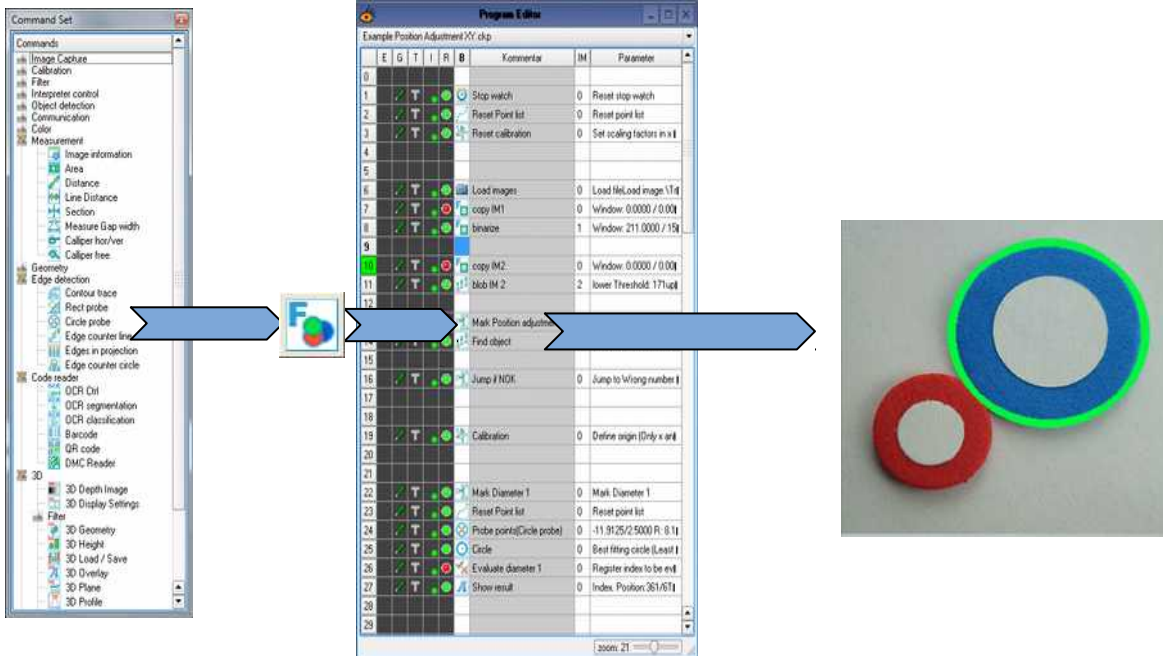
## Command set

	Image Acquisition		Object count BLOB		Script Interpreter		Overlay Arrow
	Asynchronous Image Acquisition		Check Input		Window		Overlay Circle
	Camera Control		Set Output		Rectangular edge detection		Overlay Cross
	Calibration		Display Register Values		Select Color Channel		Overlay Line
	Stop watch		Global String		Color Control		Overlay Square
	Program Flow Control		Image Transfer		Color Filter		JSON / XML (Read)
	Subroutine call		Image Information		LED Color Inspection		JSON / XML (Write)
	Value evaluation		Point List		Point Operation Set	Filter: Gray to RGB RGB to Gray	

## EyeVision Software

The drag-and-drop software with the graphical user interface.

Every EyeSensN vision sensor contains the EyeVision software with a specially activated command set (see list above). This command set can be extended with any command out of the EyeVision command range.



EyeVision Configuration Mode: detecting blue chocolate drops

## Further EyeSensN Vision Sensors:

- EyeSensN BarCode Reader
- EyeSensN OCR Reader
- EyeSensN Measure
- EyeSensN Object Count
- EyeSensN DMC
- EyeSensN Match
- EyeSensN Advanced DMC, BarCode, OCR
- EyeSensN Advanced DMC, BarCode

## Technische Daten

EyeSensN Vision Sensors have either integrated lens (Field of View: weit, mittel, eng) with motorized zoom and illumination (8 LEDs). Or optionally a C-mount connector.

## Electrical Data

Operating voltage	18 ... 30 V DC
Current consumption (without I/O)	< 300 mA
Protective circuits	Reverse-polarity protection / short-circuit protection of all outputs
Power on Delay	ca. 13 s after Power on
Outputs	PNP/NPN (switchable)
Max. output current (per output)	50 mA, 100 mA (Pin 12)
Switching threshold inputs incl. encoder	PNP/NPN High > U-1V / Low < 3V
Input resistance	> 20 kOhm
Interfaces	Ethernet (LAN), EtherNet/IP, PROFINET
Inputs/ Outputs	2 inputs, 2 outputs 6 selectable inputs/outputs
Encoder	yes

## Mechanical Data

Dimensions	70,4 x 45 x 45 mm (ohne Stecker)
Enclosure rating	IP 67 & IP 65
Material, housing	Aluminium, die-cast, RoHS compliant
Material, front screen	Plastic
Ambient temperature: operation	0 ... +50 °C
Ambient temperature: storage	-20 ... +60 °C
Weight	ca. 200 g
Plug connection	Supply and I/O M12 12-pin, Ethernet M12 4-pin
Vibration resistance	EN 60068-2-6
Shock resistance	EN 60068-2-27

## Dimensions

