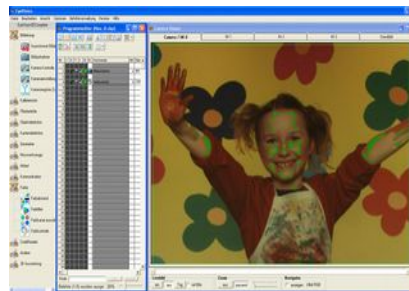


Messen  
Prüfen  
Kontrollieren  
Sortieren  
Positionieren  
Vollständigkeitskontrolle  
Vorhandenseinskontrolle  
Oberflächeninspektion  
Teileprüfung  
Werkzeugvoreinstellung  
3D Sehen  
3D Erkennung  
Robot Vision  
Markierungskontrolle  
Koplanarität  
BGA-Prüfung  
Konturprüfung  
Fehler- und 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:

# EyeSens ColorInspect

## VISION SENSOR



### Description:

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

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.

You can find more information on our website: [www.evt-web.com](http://www.evt-web.com).

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

## Sensor Models

Model	Resolution	Sensor	Focal length	Integrated illumination	Processor
ES CI_0	736 x 480	1/3" CMOS	6, 12, 25 mm	LED: white, red or infrared	1 GHz
ES CI_1	736 x 480	1/3" CMOS	C-Mount	none	1 GHz
ES CI XHR_0	1280 x 1024	1/1,8" CMOS	12 mm	LED: white, red or infrared	1 GHz
ES CI XHR_1	1280 x 1024	1/1,8" CMOS	C-Mount	none	1 GHz

## Technical Data

EyeSens Vision Sensoren can include lens (6, 12 or 25 mm focal length) and lighting (8 LEDs).

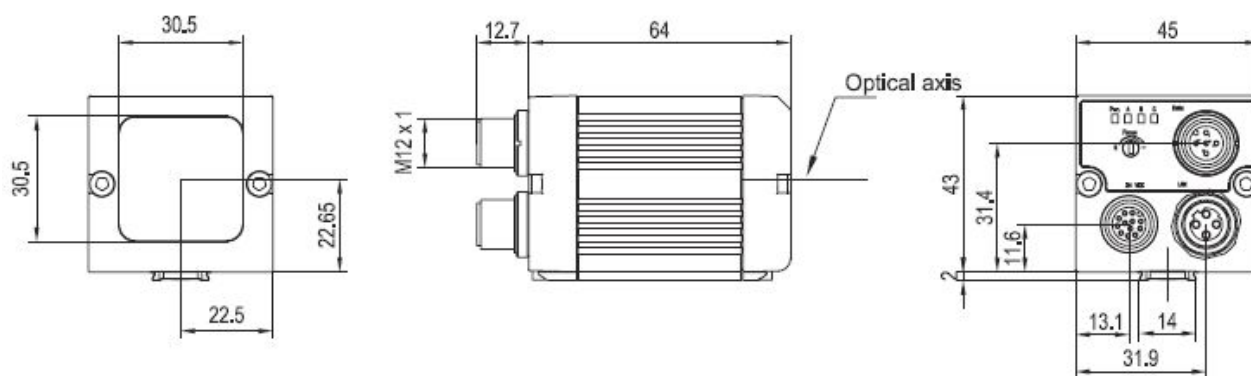
### Electrical Data

<b>Digital I/O Interface</b>	1/ 3 - 4 and additional 4 freely allocatable Ethernet, RS232 or RS422
<b>Max. output current</b>	50 mA
<b>Operating voltage</b>	24V DC (- 25 % / + 10 %)

### Mechanical Data

<b>Dimensions (L x B x H)</b>	65 x 45 x 45 mm
<b>Weight</b>	approx. 160 g
<b>Connector</b>	Supply and I/O M12 12-pin, Ethernet M12 4-pin, Data M12 5-pin
<b>Housing</b>	aluminium, plastic

## Dimensions



## 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	

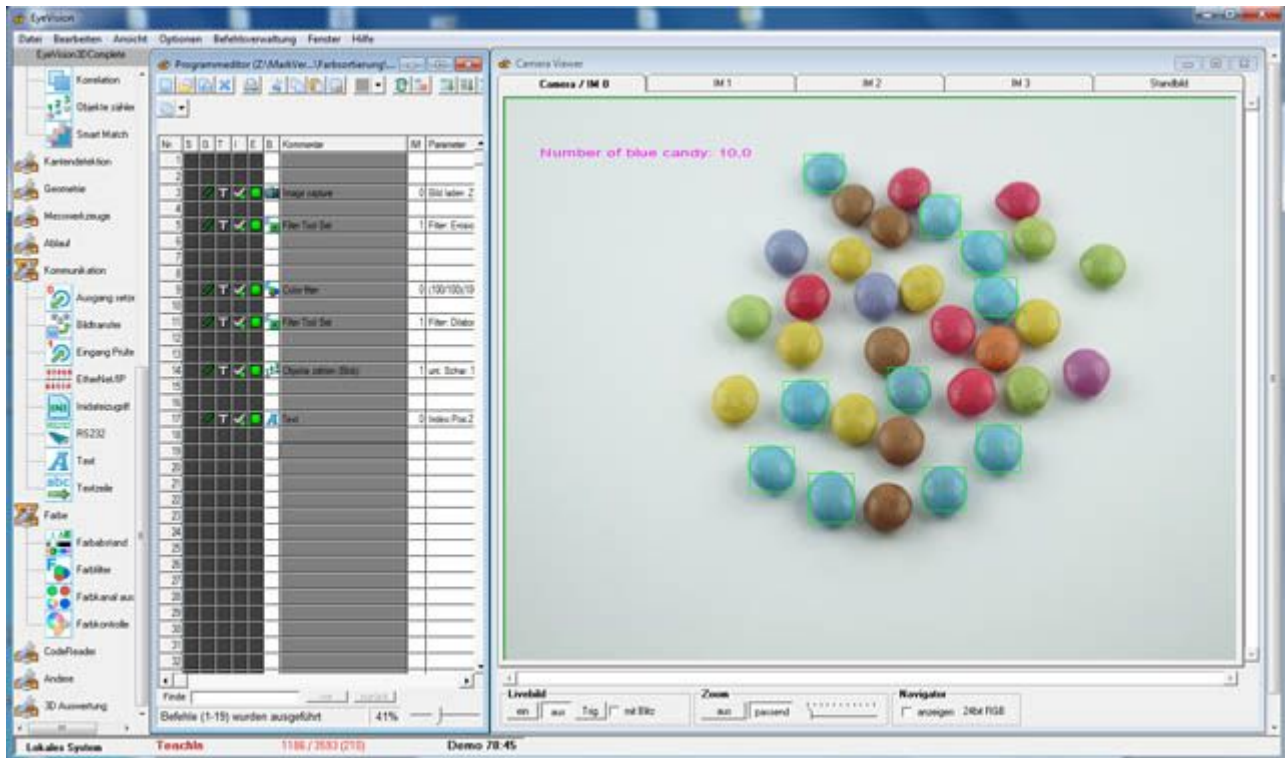
## EyeVision Software

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

Every EyeSens 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.

The screenshot displays the EyeVision software interface. On the left is the 'Command Set' window with a tree view of various commands. In the center is the 'Program Editor' window showing a sequence of commands in a table format. On the right is a 3D visualization of a red and blue ring with a green outline. Blue arrows indicate the flow of data from the Command Set to the Program Editor and then to the 3D model.

	E	G	T	I	R	B	Kommentar	IM	Parameter
0									
1	✓		T				Stop watch	0	Reset stop watch
2	✓		T				Reset Point list	0	Reset point list
3	✓		T				Reset calibration	0	Set scaling factors in x,y
4									
5									
6	✓		T				Load images	0	Load file Load image 1.tif
7	✓		T				copy IM1	0	Window: 0.0000 / 0.00
8	✓		T				binarize	1	Window: 211.0000 / 150
9									
10	✓		T				copy IM2	0	Window: 0.0000 / 0.00
11	✓		T				blob IM 2	2	lower Threshold: 171up
12									
13							Mark Position adjust		
14							Find object		
15									
16	✓		T				Jump if NOK	0	Jump to Wrong number 1
17									
18									
19	✓		T				Calibration	0	Define origin (Only x and y)
20									
21									
22	✓		T				Mark Diameter 1	0	Mark Diameter 1
23	✓		T				Reset Point list	0	Reset point list
24	✓		T				Probe point(Circle probe)	0	-11.9125/2.5000 R: 8.11
25	✓		T				Circle	0	Best fitting circle (Least 1)
26	✓		T				Evaluate diameter 1	0	Register index to be enl
27	✓		T				Show result	0	Index: Position: 361/671
28									
29									



EyeVision Configuration Mode: detecting blue chocolate drops

### Further *EyeSens* Vision Sensors:

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