Smart Camera

B50M011

- **Image processing functions**
- **MultiCore technology**
- **OCR reading**
- **Pattern matching**
- **Reading of printed and directly marked 1D and 2D codes**

The smart camera weQube is based on the wenglor MultiCore technology and combines the function of the scanner and the vision sensors. Therefore, this product allows to capture all established 1D codes and various 2D code types. Region of interest and tracking ensure reliable and stable image recording. The following image processing modules are available: Dimensional accuracy check, sorting procedures, presence control, object counting, position output, pixel counting, optical character recognition, pattern matching, filter options, and statistics evaluation.

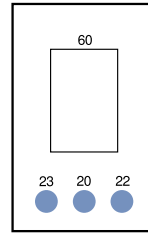| Optical Data	
Lens thread	C-Mount
Resolution	736 × 480 Pixel
Image Chip	color
Image chip size	1/3"
Pixel Size	6 × 6 μm
Service Life (T = +25 °C)	100000 h
Frame Rate	15 Hz
Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (Ub = 24 V)	< 200 mA
Response Time	66 ms
Temperature Range	-25...55 °C*
Inputs/Outputs	6
Switching Output Voltage Drop	< 2,5 V
Switching Output/Switching Current	100 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Interface	RS-232/Ethernet
Protection Class	III
Mechanical Data	
Setting Method	Ethernet
Housing Material	Aluminum
Degree of Protection	IP67
Connection	M12 × 1; 12-pin
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	263,03 a
Function	
Presence Check	yes
Pixel Comparison	yes
Reference Image Comparison	yes
Tracking	yes
OCR	yes
Object detection	yes
Dimensional accuracy check	yes
1D and 2D code reading	yes
Pattern matching	yes
Web server	yes
PNP NO	●
Illumination Output	●
RS-232 Interface	●
Ethernet	●
Connection Diagram No.	002 1008
Control Panel No.	X2
Suitable Connection Equipment No.	50 87
Suitable Mounting Technology No.	560

Display brightness may decrease with age. This does not result in any impairment of the sensor function.
* –25 °C: Ambient conditions should not result in condensation; avoid the formation of ice on the front panel!
55 °C: Continuous illumination at max. 1% or flash mode at 100% brightness with an exposure time of <= 5 ms; may affect the service life of the product.

Complementary Products

Illumination Technology	
Lens	
Protective Housing ZSZ-0x-01	
Software	
ZC4G002 connection cable	
ZC4G003 connection cable	
ZDCG004 connection cable	

Ctrl. Panel

X2

20 = Enter key
22 = Up key
23 = Down key
60 = display

002

PORT 2

1	Tx+
2	Tx−
5	
6	
7	
8	
3	Rx+
4	Rx−

1008

PORT 1

1	+
3	E/A1
4	E/A2
5	E/A3
6	E/A4
7	E/A5
8	E/A6
9	TxD
RS 232	10	RxD
11	nc
12	nc
2	−