Part Number



- 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.

## **Technical Data**

Technical Data			
Optical Data			
Lens thread	C-Mount		
Resolution	736 × 480 Pixel		
Image Chip	monochrome		
Image chip size	1/3"		
Pixel Size	6 × 6 μm		
Service Life (T = +25 °C)	100000 h		
Frame Rate	25 Hz		
Electrical Data			
Supply Voltage	1830 V DC		
Current Consumption (Ub = 24 V)	< 200 mA		
Response Time	40 ms		
Temperature Range	-2555 °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	you .		
	yes		
Configurable as PNP/NPN/Push-Pull			
Switchable to NC/NO			
Illumination Output			
RS-232 Interface			
Ethernet			
Connection Diagram No.	002 1008		
Control Panel No.	X2		
Suitable Connection Technology No.	50 87		
Suitable Mounting Technology No.	560		
Display brightness may decrees with age. This does	not requit in any impairment of the		

Display brightness may decrease with age. This does not result in any impairment of the sensor function.

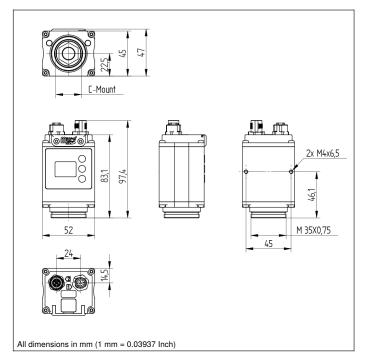
## **Complementary Products**

Illumination Technology
Lens LAC25-14-K02
Protective Housing ZSZ-0x-01
Software

<sup>\* -25°</sup> C: Ambient conditions should not result in condensation; avoid the formation of ice on the front panel!

The finit paren:
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.





## Ctrl. Panel

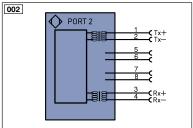


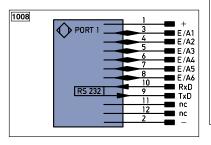
20 = Enter Button

22 = UP Button

23 = Down Button

60 = Display





Leger	nd		PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +		nc	not connected	ENB	Encoder B	
-	Supply Voltage 0 V		U	Test Input	Amin	Digital output MIN	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	Амах	Digital output MAX	
Α	Switching Output	(NO)	W	Trigger Input	Аок	Digital output OK	
Ā	Switching Output	(NC)	0	Analog Output	SY In	Synchronization In	
٧	Contamination/Error Output	(NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT	
V	Contamination/Error Output	(NC)	BZ	Block Discharge	OLT	Brightness output	
Е	Input (analog or digital)		AMV	Valve Output	М	Maintenance	
T	Teach Input		а	Valve Control Output +			
Z	Time Delay (activation)		b	Valve Control Output 0 V			
S	Shielding		SY	Synchronization		Wire Colors according to	
RxD	Interface Receive Path		E+	Receiver-Line	DIN IEC 757		
TxD	Interface Send Path		S+	Emitter-Line	BK	Black	
RDY	Ready		±	Grounding	BN	Brown	
GND	Ground		SnR	Switching Distance Reduction	RD	Red	
CL	Clock		Rx+/-	Ethernet Receive Path	OG	Orange	
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow	
•	IO-Link		Bus	Interfaces-Bus A(+)/B(-)	GN	Green	
PoE	Power over Ethernet		La	Emitted Light disengageable	BU	Blue	
IN	Safety Input		Mag	Magnet activation	VT	Violet	
OSSD	Safety Output		RES	Input confirmation	GY	Grey	
Signal	Signal Output		EDM	Contactor Monitoring	WH	White	
BI_D+/-	- Ethernet Gigabit bidirect. data	a line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
ENors42	Encoder 0-pulse 0-0 (TTL)	, ,		Encoder B/B (TTL)	GNYE	Green/Yellow	









