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	ves
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	<u>2</u> , c p, x cca.
MTTFd (EN ISO 13849-1)	263,03 a
Function	200,000 G
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 yes
1D and 2D code reading Pattern matching	yes yes yes
1D and 2D code reading Pattern matching Web server	yes yes
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull	yes yes yes
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull Switchable to NC/NO	yes yes yes
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull Switchable to NC/NO Illumination Output	yes yes yes
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull Switchable to NC/NO Illumination Output RS-232 Interface	yes yes yes
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull Switchable to NC/NO Illumination Output RS-232 Interface Ethernet	yes yes yes
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull Switchable to NC/NO Illumination Output RS-232 Interface	yes yes yes
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull Switchable to NC/NO Illumination Output RS-232 Interface Ethernet PROFINET EtherNet/IP™	yes yes yes yes
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull Switchable to NC/NO Illumination Output RS-232 Interface Ethernet PROFINET EtherNet/IP™ Connection Diagram No.	yes yes yes yes O02 1008
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull Switchable to NC/NO Illumination Output RS-232 Interface Ethernet PROFINET EtherNet/IPTM Connection Diagram No. Control Panel No.	yes yes yes yes 002 1008
1D and 2D code reading Pattern matching Web server Configurable as PNP/NPN/Push-Pull Switchable to NC/NO Illumination Output RS-232 Interface Ethernet PROFINET EtherNet/IP™ Connection Diagram No.	yes yes yes yes 002 1008

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

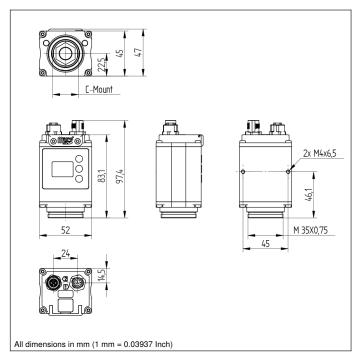
55° C: Continuous illumination at max. 1% or flash mode at 100% brightness with an exposure time of ≤ 5 ms; may affect the service life of the product.

Complementary Products

Comp	olementary i roddets
Illumina	ation Technology
Lens	
Protect	ive Housing ZSZ-0x-01
Softwa	re

sensor function.
* -25° C: Ambient conditions should not result in condensation; avoid the formation of ice on the front panel!





Ctrl. Panel

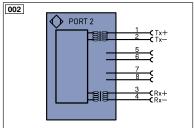


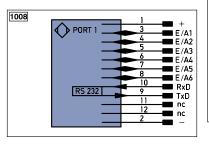
20 = Enter Button

22 = UP Button

23 = Down Button

60 = Display





Leger	nd		PT	Platinum measuring resistor	ENARS	₂ Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected		Encoder B/B (TTL)
_	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B
Α	Switching Output (NO	0)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (NC	()	W-	Ground for the Trigger Input	Амах	Digital output MAX
V	Contamination/Error Output (NO	0)		Analog Output	Аок	Digital output OK
V	Contamination/Error Output (NC	()	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SY OL	T Synchronization OUT
Т	Teach Input		Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance
S	Shielding		b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path			Synchronization	Wire	Colors according to DIN IEC 757
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black
RDY	Ready		E+	Receiver-Line	BN	Brown
GND	Ground		S+	Emitter-Line	RD	Red
CL	Clock		÷	Grounding	OG	Orange
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow
•	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey
Signal	Signal Output		Mag	Magnet activation	WH	White
BI_D+/	- Ethernet Gigabit bidirect, data line	(A-D)		Input confirmation	PK	Pink
ENors4	₂ Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNY	Green/Yellow







