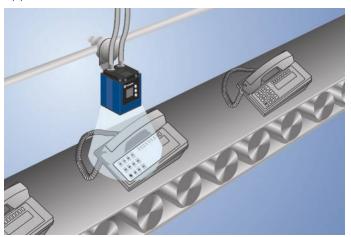


- Image processing functions
- MultiCore technology

The vision sensor weQubeVision is based on the wenglor MultiCore technology. The functions autofocus, region of interest and tracking ensure optimal object detection. The following image processing modules are available: Dimensional accuracy check, sorting procedures, presence control, object counting, position output, pixel counting, filter options, and statistics evaluation. Thanks to the integrated color image chip, all image processing functions are also available for remote applications.



Technical Data

Technical Data	
Optical Data	
Working Range	≥ 20 mm
Resolution	736 × 480 Pixel
Image Chip	color
Light Source	White Light
Service Life (T = +25 °C)	100000 h
Visual Field	see Table 1
Frame Rate	15 Hz
Electrical Data	
Supply Voltage	1830 V DC
Current Consumption (Ub = 24 V)	< 200 mA
Response Time	66 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)	227,7 a
Function	
Presence Check	yes
Pixel Comparison	yes
Reference Image Comparison	yes
Tracking	yes
Object detection	yes
Dimensional accuracy check	yes
Web server	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 Equipment No.	50 87
Suitable Mounting Technology No.	560
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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

Disk with Polarization Filter ZNNG004

Illumination Technology

License Upgrade, weQube Pattern Matching DNNL006

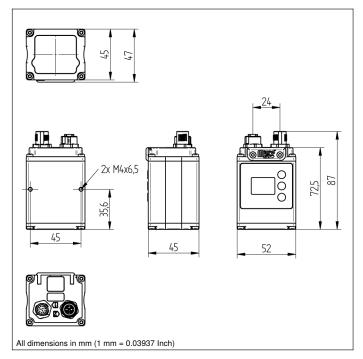
Protective Housing ZNNS001, ZNNS002

Software

weQubeDecode License Upgrade DNNL002

weQubeOCR License Upgrade DNNL003

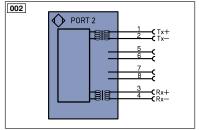


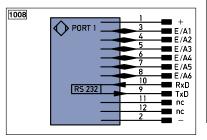






- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 60 = Display





_eger	nd	PT		Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
+	Supply Voltage +	nc		not connected	ENBRS422	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 (N	O) W		Trigger Input	Amin	Digital output MIN
Ā	Switching Output (N	C) W-	-	Ground for the Trigger Input	Амах	Digital output MAX
٧	Contamination/Error Output (N	O) 0		Analog Output	Аок	Digital output OK
V	Contamination/Error Output (N	C) 0-	-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ		Block Discharge	SY OUT	Synchronization OUT
T	Teach Input	Aw	W	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	SY		Synchronization	Wire Co	olors according to IEC 60757
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	SnF	7	Switching Distance Reduction	YE	Yellow
0	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	Mac	a	Magnet activation	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data lin			Input confirmation	PK	Pink
	2 Encoder 0-pulse 0-0 (TTL)	EDI		Contactor Monitoring	GNYE	Green/Yellow

Table 1

Working Distance	20 mm	100 mm	200 mm
Visual Field	24 × 16 mm	74 × 48 mm	145 × 94 mm









