

# 1D/2D Code Scanner

## C50C002

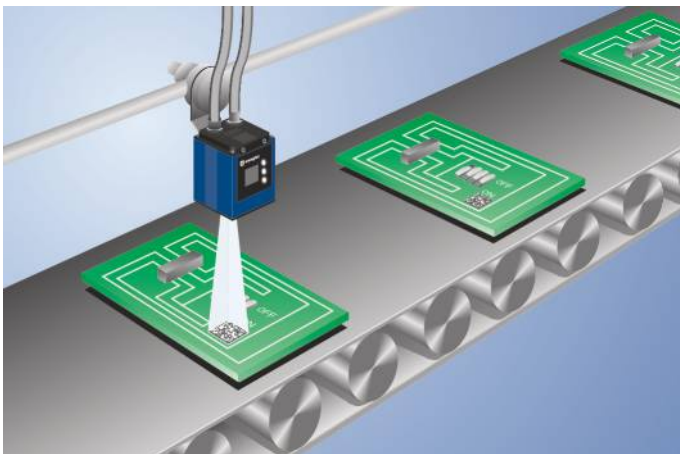
Part Number

weQubeDecode



- **MultiCore technology**
- **Reading of printed and directly marked 1D and 2D codes**

The scanner weQubeDecode is based on the wenglor MultiCore technology. Omnidirectional scanning enables decoding of printed, needle-punched, laser-engraved or etched codes on various materials in any orientation. Good scanning results are even obtained with poor code quality. In addition to the established 1D codes it is also suitable for scanning various 2D codes. A list of readable code types is found in the operating instructions.



### Technical Data

Optical Data	
Working Range	≥ 20 mm
Resolution	736 × 480 Pixel
Image Chip	monochrome
Light Source	Infrared Light
Service Life (T = +25 °C)	100000 h
Visual Field	see Table 1
min. Resolution	0,1 mm
Barcode Printing Contrast	> 15 %

Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (U <sub>b</sub> = 24 V)	< 200 mA
Scan Rate	20 scans/sec
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.

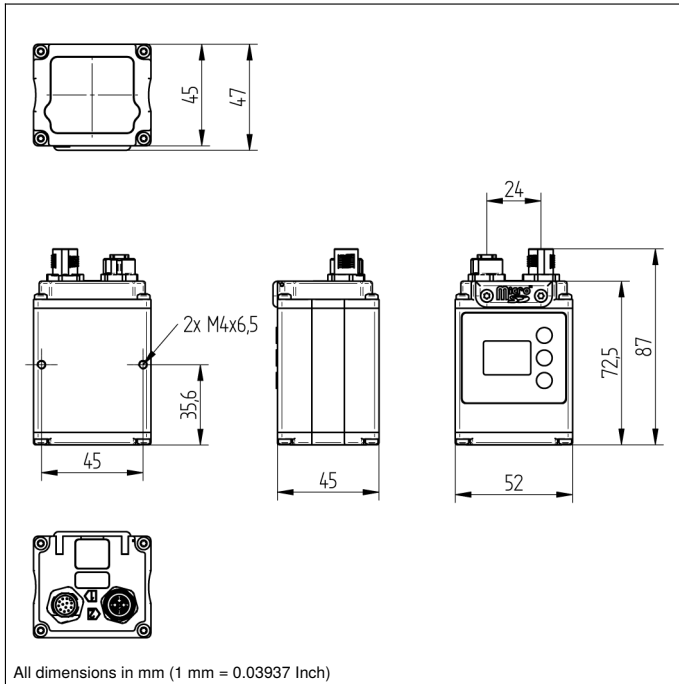
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	230,41 a

Function	
1D and 2D code reading	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

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.

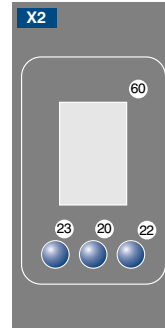
### Complementary Products

Disk with Polarization Filter ZNNG004
Illumination Technology
Protective Housing ZNNS001, ZNNS002
Software
weQubeOCR License Upgrade DNNL003
weQubeVision License Upgrade DNNL001

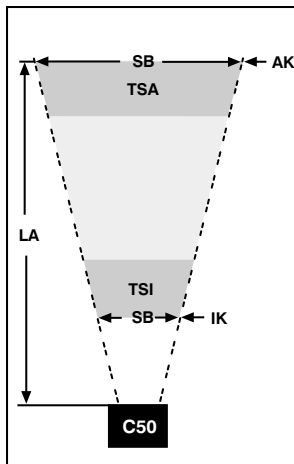


All dimensions in mm (1 mm = 0.03937 Inch)

### Ctrl. Panel



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



AK = Outer Edge    IK = Inner Edge    LA = Read Range    SB = Scan Width    TSA = Depth of Focus Outer Edge    TSI = Depth of Focus Inner Edge

Min. Resolution		Max. Visual Field		Depth of Focus		Read Range
1D	2D	IK	AK	TSI	TSA	
0,1 mm	—	22×14 mm	29×19 mm	1 mm	2 mm	20 mm to 30 mm
0,13 mm	—	22×14 mm	54×36 mm	4 mm	8 mm	20 mm to 65 mm
0,19 mm	—	22×14 mm	85×55 mm	6 mm	12 mm	20 mm to 115 mm
0,38 mm	—	40×26 mm	177×115 mm	18 mm	60 mm	47 mm to 251 mm
0,76 mm	—	78×51 mm	361×235 mm	80 mm	250 mm	105 mm to 500 mm
—	0,15 mm	22×14 mm	29×19 mm	1 mm	2 mm	20 mm to 30 mm
—	0,27 mm	22×14 mm	66×43 mm	7 mm	16 mm	20 mm to 85 mm
—	0,49 mm	22×14 mm	131×85 mm	12 mm	58 mm	20 mm to 180 mm
—	1,25 mm	24×15 mm	358×233 mm	35 mm	385 mm	27 mm to 500 mm

**Table 1**

Working Distance	20 mm	200 mm	1000 mm
Visual Field	16 × 12 mm	120 × 90 mm	600 × 450 mm

