



Image-based code readers ICR88x / ICR880

ICR880



Model Name > **ICR880**

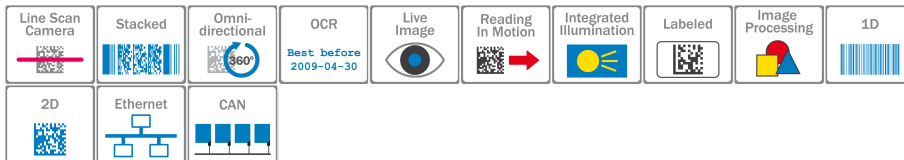


At a glance

- High-end camera system; optimized for short reading distances
- Highest level of integration - all decoders onboard
- Highest level of reliability - no external PCs needed
- 1D and 2D codes supported
- Parameter cloning for all components
- High line rate of 19 kHz for high-resolution images (> 200 dpi)
- Integration of laser scanners and dimension systems possible
- Industrial design for highest reliability

Your benefits

- Compact design without deflection mirrors; easy to install
- Increased read rates due to high-resolution images and powerful decoders
- Possibility of image-output for tracking and analysis
- "One-component-solution" instead of multiple matrix camera arrays
- Maintenance-free system design
- Reduced energy consumption due to reduced lighting and integrated decoder
- Easy configuration with SOPAS engineering tool
- High reliability (80,000 h MTBF); short MTTR (10 min)



Features

Reading field:	Front
Focus:	Dynamic focus control
Sensor:	Line camera
Sensor resolution:	8,192 px x 200 dpi (1.3 m)
Reading distance (at code resolution):	0.8 m ... 1.35 m (0.2 mm)
Scanning frequency:	19,100 Hz
Light source:	Visible red light (620 nm)
MTBF:	80,000 h
MTTR (Mean time to repair):	< 10 min
Covered conveyor width:	800 mm (200 dpi)
Depth of field:	550 mm (200 dpi)
Scanner design:	Image-based code readers (customized)

Performance

Bar code types:	Interleaved 2 of 5, Codabar, Code 128, Code 39, EAN/UPC with add-on, GS1-128/EAN 128
2D code types:	Others on request, Data Matrix ECC200, MaxiCode
OCR fonts:	On request
Transport speed:	≤4.8 m/s (100 lpi)
Print ratio:	2:1 ... 3:1
Minimum object distance:	50 mm
Number of objects per second:	10

Interfaces

Serial (RS-232):	✓
Function (Serial (RS-232)):	AUX
Data transmission rate (Serial (RS-232)):	≤ 57,600 Baud
Ethernet:	✓ (3)
Function (Ethernet):	AUX, real-time image output
Data transmission rate (Ethernet):	1x 10/100 Mbit/s, 2x Gbit/s
Protocol (Ethernet):	TCP/IP
CAN bus:	✓ (2)
Function (CAN bus):	SICK CAN sensor network (Master/Slave, Multiplexer)
Data transmission rate (CAN bus):	10 kbit/s ... 1 Mbit/s
Protocol (CAN bus):	CSN (SICK CAN Sensor Network)
PROFIBUS DP:	✓
Remark (PROFIBUS DP):	Via MSC800 controller
PROFINET:	-
DeviceNet:	-
Optical indicators:	5 LED (status displays)
Reading pulse:	CAN
Memory card:	SD card, 128 MB

Mechanics/electronics

Power consumption:	155 W, typical
Electrical connection:	7 x M12 2 x RJ-45 1 x IN/OUT power supply
Housing:	Die-cast aluminum, Aluminum extruded profile
Housing color:	Light blue (RAL 5012)
Weight:	28.5 kg
Dimensions:	874 mm x 348 mm x 231 mm
Enclosure rating:	IP 64 (DIN 40 050)
Protection class:	III (IEC 1010-1)
Lens:	80 mm (standard)

Ambient data

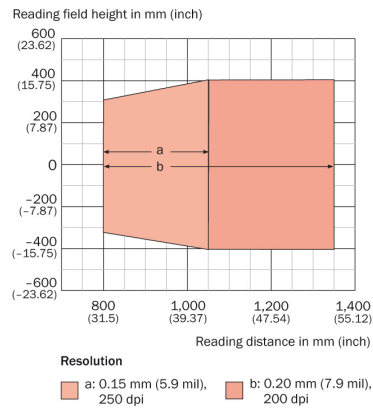
Bar code print contrast (PCS):	≥ 40 %
Electromagnetic compatibility (EMC):	EN 61000-6-2/EN 61000-6-4
Vibration resistance:	IEC 68-2-6
Shock resistance:	IEC 68-2-27/IEC 68-2-32
Ambient operating temperature:	0 °C ... 50 °C
Storage temperature:	-20 °C ... 70 °C
Permissible relative humidity:	95 %, non-condensing
Ambient light safety:	2,000 lx, on code

General notes

Items supplied:

Consisting of camera, decoder and lighting. Additional components are assembled according to customer requirements.

Reading field diagram



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