

# ICR803 Image Code Reader



Miniature scanner for reading 1D/2D codes

## ICR803 – Automatic identification in highly compact housing

LED illumination, newest Imaging Technology, USB or RS 232 interface – all functions necessary for reading 1D or 2D codes are already included inside the compact housing of the ICR803. It only measures 49 x 40 x 25 mm<sup>3</sup>. With only 37 g it also is a real lightweight. Everywhere the space for mounting is limited, the ICR803 is the ideal choice.

Bar codes, stacked codes, 2D codes, RSS codes or image acquisition – the ICR803 reads omnidirectional, meaning in every code orientation. Therefore a defined code adjustment is not necessary.

The ICR803 can be integrated in different devices. Examples are clinical

analysers, electronic kiosks, robot systems, access controls as well as information and transaction terminals.

An easy, quick and safe mounting is possible through two threads included in the housing.

Through an external push-button the ICR803 can be triggered manually. The device also can be controlled via hardware trigger or via serial commands. Moreover the ICR803 offers the possibility of a so called presentation mode. In this mode the scanner automatically activates itself when codes appear inside its reading field.

The combination of high performance code reading, small form factor and easy installation allows the ICR803 to reliably solve various identification tasks.

### The ICR803 at a glance

- Omnidirectional code reading
- Triggering via push-button at device, presentation mode or hardware trigger via SICK connection module
- Optical aiming line
- Compact dimensions
- Only 37 g (without cable)
- USB and RS 232 versions
- Serial host commands possible
- RoHS and WEEE conform

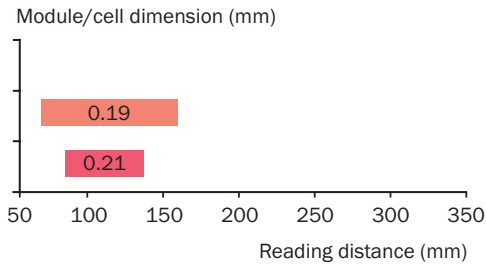
### Your benefits

- Fast and reliable code identification
- Reading of 1D codes, stacked codes, 2D codes, RSS codes, OCR-A/B and image acquisition with only one device
- Easy and fast installation and configuration
- No moving parts, robust design

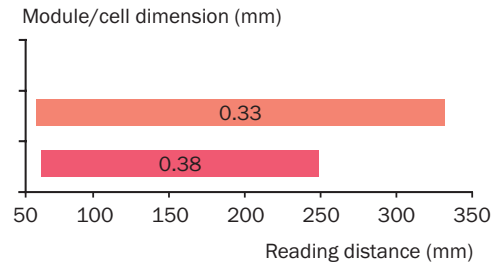
## Technical Data

Type	ICR803
Scanner design	2D Image Code Reader
Light source	
LED illumination	Visible red light (630 nm)
LED aiming line	Visible green light (530 nm)
Immunity to ambient light	Max. 100,000 lx
Resolution	752 x 480 Pixel
Code types	
Linear	Codabar, Code 39, Code 32 PARAF, Code 93, Code 2 of 5, Code 11, Code 128, Telepen, UPC/EAN, RSS14, RSS-Limited&Expanded, Codablock, Posicode, Interleaved 2 of 5, Postal Codes
Stacked	PDF417
2D	Aztec, Data Matrix, Maxicode, QR Code
OCR	OCR-A, OCR-B
Image acquisition	BMP, JPEG, TIFF
Object velocity	Max. 0.1 m/s
Interfaces	USB keyboard wedge, USB serial, RS 232 TTL
Operating voltage	5 V DC
Weight	37 g
Dimensions	49 mm x 40 mm x 25 mm
Operating temperature	0 to 50 °C

## Reading Diagrams



Reading diagram for ICR803-Axxx  
■ = 1D, ■ = 2D



Reading diagram for ICR803-Bxxx  
■ = 1D, ■ = 2D

## Order Information

Order No.	Product	Description
6034210	ICR803-A0201	2D Image Code Reader ICR803-A0201, optical version A, RS 232 interface
6034212	ICR803-A0271	2D Image Code Reader ICR803-A0201, optical version A, USB interface
6034211	ICR803-B0201	2D Image Code Reader ICR803-A0201, optical version B, RS 232 interface
6034213	ICR803-B0271	2D Image Code Reader ICR803-A0201, optical version B, USB interface
6028232		Straight USB cable, 2.4 m length
6033047		Straight RS 232 TTL cable, 2.4 m length, external power supply necessary
6028186		Straight RS 232 TTL cable, 2.4 m length, power supply on pin 9
1027093	CDB405-001	Connection module with integrated 24/5 V DC converter
6034935		Straight RS 232 TTL cable, 2 m length, for connection of ICR803 to CDB405-001
On request	Additional products such as interface cables and power supply units	