

# CS2190

## Coedless Laser Barcode Scanner



### Features

- Stylish and ergonomic design
- Small base, saving installation space
- Excellent 1D scanning performance
- Working range up to 200 meters
- Support point-to-point and multi-point transmission
- Built-in rechargeable & replaceable battery, ensures long lifecycle
- Batch Mode capability (3,000 barcodes stored in memory)
- Support vibration mode, ideal for both noisy and quiet environment

# CS2190 Specifications

## Communication Characteristics

Working Range	200 meters (open air)
Radio Link	430.5 ~ 432.0 MHz , 433.05 ~ 434.79 MHz with adaptive frequency hopping

## Mechanical Characteristics

Dimensions (L × W × D)	Handheld unit: 90.2 mm × 70 mm × 180 mm Base: 118 mm × 89.5 mm × 74 mm
Weight	Handheld unit: 207 g Base: 140 g (without cable)
Indicator	Handheld unit: LED, beeper, vibration Base: LED
Programming Method	Manual (reading special barcode)
Firmware Upgrade	Using Flash Utility software, while a cradle unit is required.
Interface	USB Keyboard, USB Virtual COM, RS232, PS/2 Keyboard

## Electrical Characteristics

Input Voltage	DC 5 ± 0.25 V
Current	Handheld unit: 4 mA (standby), 130 mA (working) Base: 60 mA (working), 500 mA (charging, maximum)
Battery	1400 mAh Lithium-ion battery
Charge Time	4 hours
Standby Time	5 days
Operating Time	21 hours (1 scan / 5 s)

## Performance Characteristics

Light Source	650 nm visible laser diode
Decoding Rate	200 times / second
Scanning Angle	±60°, ±65°, ±42° (skew, pitch, roll)
Print Contrast	20% minimum reflection difference
Decoding Capability	UPC-A, UPC-E, UPC-E1, EAN-13, EAN-8, ISBN (Bookland EAN), ISSN, Code 39, Code 39 full ASCII, Code 32, Trioptic Code 39, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Codabar (NW7), Code 128, UCC/EAN 128, ISBT 128, Code 93, Code 11 (USD-8), MSI/Plessey, UK/Plessey, China Post, China Finance, Telepen, GS1 DataBar (formerly RSS) variants
Decoding Depth	3 mil (3 chars): 20 - 70 mm 5 mil (3 chars): 0 - 120 mm 10 mil (3 chars): 0 - 280 mm 13 mil (6 chars): 0 - 350 mm 20 mil (3 chars): 25 - 480 mm 30 mil (2 chars): 15 - 650 mm

## Environmental Characteristics

Temperature	0° to 50°C (32° to 122°F), operating; -40° to 60°C (-40° to 140°F), storage
Humidity	5% to 95% (non-condensing)
Safety	Laser safety: EN60825-1, Class 1   EMC: EN55022, EN55024 Electrical Safety: EN60950-1   Sealing: IP52 Drop Resistance: Multiple 1.2 m (3.9 ft.) drops to concrete

[Notice]: Specifications are subject to change without notice.

### For more information:

[www.mindeo.cn](http://www.mindeo.cn)

**Shenzhen MinDe Electronics Technology Ltd.**

Telephone : +86 (0)755 8614 1288

E-mail : [info@minde.cn](mailto:info@minde.cn)

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