



北京凯普海泰科技有限公司  
Beijing Cap High Technology Co., Ltd.

## CNR200 High-Quality Colorimeter

### High-end brands of domestic colorimeter

CNR200 is another mainstream brand colorimeter introduced by Captech which has synthesized the advantages of ten more traditional imported colorimeters and has experienced ten thousands tests and applied many innovative technologies. Accurate, Stable, Exquisite and Affordable!



© 3nh China 2012

### 1. Leading Humanity Design and Convenient Operation

- Auto White and Black Calibration at Startup
- Structure Design in line with Ergonomics
- Fool-style Operation Interface

### 2. Stable Measurement Performance

- The average fluctuation of  $\Delta E$  is less than 0.08, actually more in 0.03~0.06.
- Portable structure design which is more conducive to keeping the instrument stable when using.

### 3. Convenient and Fast Locating

- Illumination locating is a fast, simple and convenient locating function which is the original function by Captech.

### 4. PC Software—Realize More Function Expansion

- Captech has the intellectual property of PC software. The corresponding software serial number and password protection are configured in Captech colorimeter.
- Be able to perform color difference analysis, color difference cumulative analysis, chromaticity index, color sample database management, simulating object color, etc.

### 5. Advanced Power Management Design

- Captech is the first enterprise using high capacity Li-ion battery in colorimeter.
- Captech Li-ion battery can be repeatedly charged which will save cost. Meanwhile, it can measure more than 3000 times on one charge to ensure the stability of long time measurement.

## CNH Series Colorimeter Specifications

<b>Illuminating/Viewing Geometry</b>	8/d
<b>Measuring Aperture</b>	Φ8mm
<b>Detector</b>	Silicon photoelectric diode
<b>Color Space</b>	CIEL*a*b*C*h* CIEL*a*b*
<b>Color Difference Formula</b>	$\Delta E^*_{ab}$ $\Delta L^*_{a^*b}$ $\Delta E^*_{C^*h}$
<b>Light Source</b>	D65
<b>Light Source Device</b>	LED blue light excitation
<b>Errors Between Each Equipment</b>	$\leq 0.40 \Delta E^*_{ab}$
<b>Storage</b>	100pcs standards 5000pcs samples Standard deviation within $\Delta E^*_{ab}$
<b>Repeatability</b>	0.08 Average of 30 measurements of standard white plate
<b>Weight</b>	500g
<b>Dimension</b>	205×70×100 mm

<b>Power source</b>	Rechargeable lithium-ion battery 3.7V@3200mAh
<b>Lamp Life</b>	3 years, more than 1 million measurements
<b>Charging Time</b>	8 hours--100% electricity
<b>Measurement Times Before Recharging</b>	3000 times in 8 hours
<b>Operating Temperature/Humidity Range</b>	-10~40℃, relative humidity 0~85% with no condensation
<b>Data Interface</b>	USB
<b>Extended Aperture (optional)</b>	-
<b>Printer (optional)</b>	Miniature thermal printer

## List of NR200 Colorimeter

No.	Name	Type	Qty	Status
1	NR200 Colorimeter	Standard Accessories	1	√
2	White Calibration Cover	Standard Accessories	1	√
3	8mm Measuring Aperture	Standard Accessories	1	√
4	Power Adapter	Standard Accessories	1	√
5	Li-ion Battery	Standard Accessories	1	√
6	USB Cable	Standard Accessories	1	√
7	Operating Instruction	Standard Accessories	1	√
8	Software CD	Standard Accessories	1	√
9	Product Certification and Warranty Card	Standard Accessories	1	√
10	Miniature Thermal Printer	Optional Accessories	1	---
11	Powder Test Box	Optional Accessories	1	---

