COLORIMETER

ACCURATE MEASUREMENT TO REDUCE COLOR ERRORS

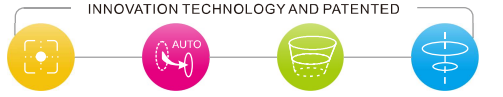
MODEL: NH310

NH310 is a mainstream brand colorimeter introduced by 3nh which has synthesized the advantages of ten more traditional imported colorimeters. Accurate, Stable Exquisite and Affordable!

MODEL: NH300

NH300 is the highest cost-effective portable colorimeter with high precise in NH series.

INNOVATION TECHNOLOGY AND PATENTED



Camera Locating
Illumination Locating

Built-in white plate
Automatic Calibration at Startup

Extended Aperture(Optional)
Available for Measuring Concave

Configure with 8mm/4mm
Dual Measurement Aperture

COLORIMETER

SPECIFICATION PARAMETER

Model	Locating	Calibration	ΔE	Aperture	Illuminant	Color Space	SCI SCE	Whiteness	Formula	Yellowness	CQCS3 software
NH310	Camera Illumination Locating	Automatic Manual	<0.06	8mm/4mm	D65 D50 A	Lab XYZ CIE-RGB LCH Luv	✓	✓	✓	✓	✓
NH300	Illumination Locating	Manual	<0.07	8mm	D65	Lab XYZ	–	–	–	–	✓

PRODUCT FEATURES

1. Leading Humanity Design and Convenient Operation

Auto White and Black Calibration at Startup
Structure Design in line with Ergonomics
Easy-to-use Operation Interface.

2. Stable Measurement Performance

The average fluctuation of △E is less than 0.06, actually more in 0.03~0.06.
Portable structure design which is more conductive to keeping the instrument stable when using.

3. More Measurement Modes

Three measuring apertures for more circumstances.
Five color spaces for more color schemes selection.
Three light sources for more circumstances.

4. Flexible and Accurate Locating

Camera locating can solve the problem of locating a small area. The minimum width of locating is 4mm.
Illumination locating is a fast, simple and convenient locating function which is the original function by 3nh.

5. PC Software and Li-ion Battery

PC software can perform color difference analysis, color difference cumulative analysis chromaticity index, color sample database management, simulating object color, etc.
Advanced Li-ion battery can measure over 3000 times on one charge.

6.Optional Accessories

Powder Test Box
(For Powder)

8mm Extended Aperture
(For Concave, circular arc surface)

Universal Test Component
(For Liquid, Particle and Paste)

NH310、NH300 Contrast

Function / Model	Location Method	Calibration	ΔE	Aperture	Illuminant	Color Space	SCI/SCE	Whiteness	Color Difference Formula	Yellowness	Software
NH310	Illumination Location /Camera Location	Automatic /Manual	<0.06	8mm/4mm	D65 D50 A	CIE Lab XYZ CIE-RGB LCH CIE Luv	✓	✓	✓	✓	✓
NH300	Illumination Location	Manual	<0.07	8mm	D65	Lab XYZ	–	–	–	–	✓

Color space	CIE L*a*b*,CIE XYZ,CIE RGB, CIE L*u*v*,CIE L*C*H*, WI(Whiteness), YI(Yellowness),Color Fastness,Staining fastness
Color Difference Formula	ΔE*ab,ΔE (h) ,ΔE*uv,ΔE*94,ΔE*cmc(2:1), ΔE*cmc(1:1),ΔE*00
Optical Geometry	CIE Recommended way: 8°/d
sensor	Silicon Photoelectric Diode Array
Measuring Aperture	Φ8mm/Φ4mm (Φ8mm Matching)
Correction function	Auto Calibration at Starting
Illuminant	D65/D50/A/C/F2/F6/F7/F8/F10/F11/F12
Data Storage	Chinese/English interface 100 standard samples 20,000 trial-produced samples
Measurement mode	SCI(Specular reflection)&SCE (Non-specular reflection)
Locate Mode	Illumination Location/Camera Location
Observer	CIE 10°standard observer

Light wave range	L:0-100
Repeatability	ΔE<0.06 (Average of 30 times measurement of the white board)
Measurement Time	1.5s
Battery Performance	Able to do 3000 times of measurements within 8 Hours
Lamp Life	5 years, more than 1.6 million measurements
Display	TFT colour 2.8inch@ (16:9) Resolving power400*240
Interface	USB
Operating Environment	0℃~40℃ (32°F ~104°F)
Storage Environment	-20℃ ~50℃ (-4°F~122 °F)
Humidity range	Humidity: 0 ~ 85% (No Condensation)
Weight	about400g (Includes 3200 mAh battery weight)
size	205×70×100mm