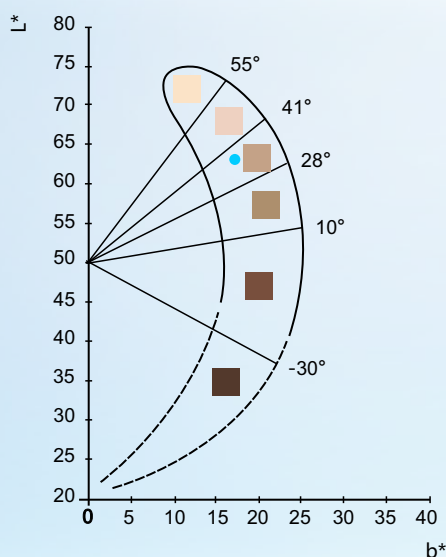




Four Metrics, One Screen – Read Your Skin Instantly.

Quantify the effects of brightening, spot fading, UV protection, and soothing through changing values.



ITA°

Erythema Index (EI)

Melanin Index (MI)

Lab

Skin Colorimeter PS08

The PS08 is a research-grade skin colorimeter designed for professional applications including cosmetics R&D, medical aesthetics efficacy evaluation, and synthetic skin validation. Featuring a D/8 integrating sphere optical system with simultaneous SCI/SCE measurement, a single skin-contact measurement simultaneously outputs four core data sets: Melanin Index, Erythema Index, ITA° skin type classification, and CIE Lab* colorimetric values – meeting the demands for high-precision, traceable professional skin color measurement.



FROM COLOR MEASUREMENT TO SKIN TONE ANALYSIS – TECHNOLOGY TRANSFORMED

The PS08 Skin Colorimeter transforms internationally standardized color science technology into a professional testing tool for skincare, medical aesthetics, and synthetic skin industries. It delivers quantifiable, traceable, and comparable skin color data, supporting cosmetics efficacy validation, medical aesthetics outcome evaluation, synthetic skin verification, and personalized treatment planning — ensuring professional services are backed by reliable data.



1. 4-in-1 Multi-Dimensional Insights – One Touch, Instant Results

A single skin-contact measurement simultaneously outputs Melanin Index, Erythema Index, ITA° (Individual Typology Angle), and Lab* colorimetric values.

Melanin Index (MI) — Evaluates whitening product efficacy, monitors pigmentation changes, and tracks post-sun exposure recovery.

Erythema Index (EI) — Assesses skin sensitivity, monitors post-treatment recovery, and evaluates anti-redness product efficacy.

ITA° (Individual Typology Angle) — Scientifically classifies skin tone levels, eliminating subjective product selection.

CIE Lab Colorimetric Values — Internationally recognized color coordinates for precise skin color documentation.

One measurement, four core data sets output simultaneously. No more guesswork — research-grade efficiency that creates a "digital skin profile" for your skin.

2. Skincare Efficacy Tracking – Build a Personal Skin Profile, Trends at a Glance

Each measurement is automatically recorded. Users can categorize and archive data by different body areas — face, neck, chest, arms, etc. By comparing values across different dates (MI, EI, ITA°, Lab*), you can clearly determine — does this serum truly fade spots? Does this sunscreen effectively block UV? Is skin redness gradually subsiding?

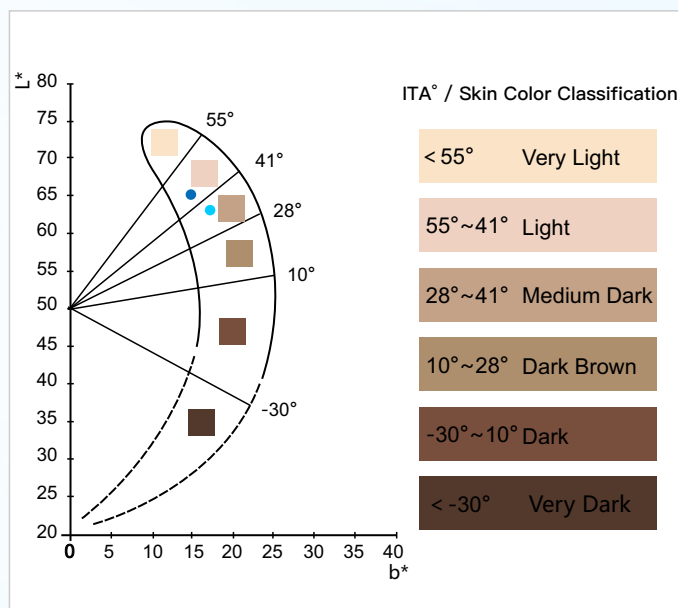
Multi-area independent profiling — Create separate profiles for face, neck, chest, arms, and more for full-body skin condition management.

Clear value comparisons — All four indicators (MI, EI, ITA°, Lab*) can be compared and analyzed — results speak through data.

Product efficacy comparison — Before, during, and after product use data comparison to quantify true whitening/soothing/sunscreen effects.

Local data storage — Data stays on device, not uploaded to the cloud (optional) — privacy is absolutely protected.

Data tells the truth — no more guessing in skincare, efficacy measured in numbers.



3. Create Content with Data – Measure Products, Track Treatments, Digitize Skincare

Perfect for skincare bloggers, ingredient enthusiasts, and beauty consultants:



Evaluate sunscreens
compare EI values before and after sun exposure.

Monitor skincare treatments
observe erythema index regression cycles.

Verify whitening serums
track ITA° value changes over time.

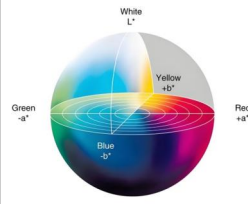
- Generate data reports — no more “subjective impressions.” Build professional trust with research-grade digital data.

4. No More Visual Errors – Research-Grade Precision, Unaffected by Lighting

Featuring a D/8 optical geometry with a plane grating spectrophotometric system, strictly compliant with CIE, GB/T, ASTM, and other international standards. Unaffected by ambient lighting, surface gloss, or visual fatigue — measurements taken today, tomorrow, or three months from now are automatically comparable, revealing true trends. Your skin changes won’t escape its “eye.”

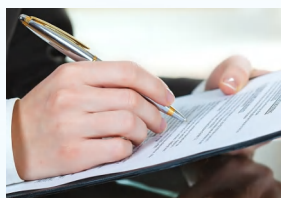
5. Rich Colorimetric Indices – Professional-Grade Analysis Capability

Supports CIE LAB, XYZ, Yxy, LCh, ΔE^*ab , and multiple color spaces. Not only suitable for daily skincare tracking but also serves cosmetics R&D testing, beauty treatment recording, and comprehensive quantitative management across all scenarios.

	L (Lightness)	1–100	Reflects skin pigmentation level — higher values indicate lighter skin tone.
	a* (Red–Green Axis)	a* (green) ~ +a* (red)	Describes skin redness level, useful for assessing skin inflammation and sensitivity.
	b* (Yellow–Blue Axis)	b* (blue) ~ +b* (yellow)	Reflects skin pigmentation and tanning level, closely related to melanin content.

APPLICATION SCENARIOS

- **Daily Skin Tracking** — Scientific management of skin color.
- **Skincare Bloggers / Ingredient Enthusiasts Content Creation** — Building audience trust with research-grade data.
- **Cosmetics R&D / Internal Testing** — Rapid formula screening.
- **Skincare Efficacy Verification** — Whitening, spot fading, repair — efficacy measured in data.
- **Beauty Salon Consultations & Outcome Monitoring** — Enhancing professional service quality.



Daily Skin Tracking



Skincare Efficacy Verification



Beauty Salon Consultations & Outcome Monitoring



Skincare Bloggers / Ingredient Enthusiasts Content Creation



Cosmetics R&D / Internal Testing

OPTIONAL ACCESSORIES

Product Name	Material Code	Image	Function
Powder Test Box	2.006.01.0011		Easy to use, designed specifically for measuring powdered targets.
Bluetooth micro printer	1.609.01.0020		Portable and convenient, capable of continuous printing without connecting to a computer. All measured parameters are easy to store.
USB micro printer	2.006.01.0013		

TECHNICAL SPECIFICATIONS

Product Model	PS08 Skin Colorimeter
Illumination Geometry	D/8 (diffuse illumination, 8° viewing); SCI/SCE measurement; Compliant with CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724-1, ASTM E1164, DIN 5033 Teil 7
Features	For skin color measurement, convenient measurement of ITA°, skin type, Melanin Index, and Erythema Index.
Integrating Sphere Size	Φ40 mm
Illumination Light Source	Full-spectrum LED light source
Spectrophotometry Method	Plane grating spectrophotometry
Sensor	Silicon photodiode array (dual-row 32 sets)
Measurement Wavelength Range	400–700 nm
Wavelength Interval	10 nm
Half Bandwidth	10 nm
Measurement Range	L: 0~120; Reflectance: 0~200%
Measurement Aperture	Single aperture: Φ8 mm
Focusing Method	Optical focusing
Specular Component	Simultaneous SCI/SCE measurement
Color Spaces	CIE LAB, XYZ, Yxy, Lch
Color Difference Formula	ΔE*ab
Other Colorimetric Indices	ITA°, Skin Type, Erythema Index (EI), Melanin Index (MI)
Observer Angle	2°/10°
Observation Light Source	D65
Display Resolution	0.01
Measurement Time	Approx. 1.5 s (simultaneous SCI/SCE approx. 3.2 s)
Display	Skin color classification chart, sample colorimetric values, color difference values/graph, pass/fail results, color simulation, color deviation
Repeatability	Colorimetric values: MAV/SCI, ΔE*ab within 0.04 (after warm-up and calibration, average of 30 measurements of white plate at 5-second intervals)
Inter-instrument Agreement	MAV/SCI, ΔE*ab within 0.35 (average of BCRA Series II 12 color tiles)
Accuracy	Certified to national metrology standards
Measurement Modes	Single measurement, average measurement (2–99 times) (via mobile app)
Positioning Method	Stabilizing plate positioning
Dimensions	81 × 71 × 214 mm
Weight	Approx. 460 g
Battery	Lithium battery, 6,000 measurements within 8 hours
Display	TFT true color 3.5-inch capacitive touchscreen
Interfaces	USB, Bluetooth
Data Storage	1,000 standard samples, 20,000 test samples (one record can include both SCI and SCE), mass storage via app
Languages	Simplified Chinese, English, Traditional Chinese
Operating Temperature Range	0–40°C, 0–85% RH (non-condensing), altitude below 2000 m
Storage Temperature Range	–20 to 50°C, 0–85% RH (non-condensing)
Standard Accessories	Power adapter, USB cable, user manual, SQCX quality management software((Software Download: http://www.3nh.com/en/client_en_14.html), black/white calibration box, protective cover, wrist strap, single aperture: Φ8 mm conical aperture, MOBCCS app
Optional Accessories	USB micro printer, powder test cell, Bluetooth micro printer

GUANGDONG THREENH TECHNOLOGY CO., LTD.



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts



Light Booths

★ CONTACT US



web: www.3nh.com



Email: 3nh@3nh.com



Tel: 0086-020-82880288



Add: 6-8th floors, Building B33, Low Carbon Headquarters Park, Xincheng Road No.400, Zengcheng District, Guangzhou, Guangdong Province, China