



Guangdong Threenh Technology Co., Ltd.

YOUR PERSONAL SKIN TONE EXPERT – ANYWHERE, ANYTIME

PS02 Skin Colorimeter



4-in-1

ITA°, Melanin, Erythema, and Lab in one measurement



High Precision

Colorimetric repeatability $\Delta E^*ab \leq 0.03$.



Just 1 Second

On-skin measurement takes only about 1 second.



Cross-Platform

Compatible with Android, iOS, Windows, WeChat Mini Program, and HarmonyOS.

The PS02 Skin Colorimeter is a flagship portable skin colorimeter designed for mobile testing and high-end beauty services. Adopting a 45/0° optical geometry compliant with CIE No.15, GB/T 3978, and other international and national standards, it delivers colorimetric repeatability of $\Delta E^*ab \leq 0.03$. A single skin-contact measurement takes only about 1 second, simultaneously outputting four core data sets: Melanin Index, Erythema Index, ITA° (Individual Typology Angle), and CIE LAB colorimetric values – meeting the demands for precise, portable, and traceable comparative skin color quantification.

Own the core tech: Top performance, budget price.



ISO9001



FROM COLOR MEASUREMENT TO SKIN TONE ANALYSIS – TECHNOLOGY TRANSFORMED

The PS02 Skin Colorimeter transforms nationally certified professional color measurement technology into a portable tool for skincare, cosmetics, and research applications. It supports personal skin profile creation and multi-platform smart connectivity, delivering quantifiable, recordable, and traceable objective skin color data. It empowers skincare efficacy validation, client skin management, cosmetic product evaluation, and skin tone research — moving skin assessment and effect tracking beyond subjective visual judgment to standardized, traceable, authoritative data support.



KEY FEATURES

1. 1-Second Measurement, Four Indicators Simultaneously Output

Compliant with CIE/GB standard 45/0° optical geometry, covering the full 400–700 nm wavelength range. A single measurement takes about 1 second, simultaneously outputting ITA° (Individual Typology Angle), Melanin Index, Erythema Index, and CIE LAB values. The PS02 doesn't just measure "color" — it delivers four key data points in one go:

1

ITA° (Individual Typology Angle)

Higher values indicate lighter skin tone; lower values indicate darker skin. Helps determine skin type classification.

Erythema Index (EI)

Value changes reflect skin redness levels, suitable for sensitive skin care reference.

3

2

Melanin Index (MI)

Value changes reflect skin tone depth trends, useful for tracking whitening care efficacy.

CIE LAB Color Space Values

Internationally recognized color standard coordinates for professional color comparison.

4



One measurement, four dimensions — no need for multiple devices. Whitening tracking, redness assessment, and color comparison — quickly capture the comprehensive skin color status.



2. High Precision – Stable and Traceable Data

Featuring a nano-integrated spectral device paired with a silicon photodiode array (dual-row 16 sets), it locks onto true skin color data — capturing even the subtlest skin tone changes after using whitening products. Replaces subjective visual judgment, making efficacy validation data more convincing and product claims data-backed.

Reception Geometry: 45/0° (compliant with CIE No.15, GB/T 3978, ISO 7724-1, and other international and national standards)

Repeatability: $\Delta E^*ab \leq 0.03$ (after warm-up and calibration, average of 30 measurements of white plate at 5-second intervals)

Wavelength Range: Full coverage 400–700 nm

Metrology Certification: Certified to national metrology standards.

3. Cross-Platform Connectivity – Zero-Learning-Curve Operation

Supports Android, iOS, Windows, WeChat Mini Program, and HarmonyOS. With Bluetooth real-time data synchronization and automatic report generation, it is ready for multiple scenarios — no professional background required for quick and easy operation.



4. Palm-Sized Portability – Professional Testing Anywhere

Dimensions: Ø32 x 100 mm — about the size of a lipstick, easily fitting into a pocket or makeup bag. A full charge supports up to 12,000 measurements — ready for home visits, outdoor use, or sampling anytime. Breaks the location constraints of professional testing, accurately measuring even fine areas, with long battery life for worry-free use.



APPLICATION SCENARIOS

- **Beauty Salons / Skin Management:** Data-driven consultations, before-and-after visualization, enhancing professional trust.
- **Skincare Brands / R&D:** High-precision metrology-certified data supports efficacy testing and filing, quantifying whitening and redness-reduction effects.
- **Skincare Bloggers / Reviewers:** Quickly produce multi-dimensional quantitative comparisons, chart-based conclusions enhance content credibility and create differentiated review competitiveness.
- **Research / Educational Institutions:** Standard-compliant, reproducible data meets research and teaching needs. With high-precision, traceable data, enhance professional image and competitiveness.



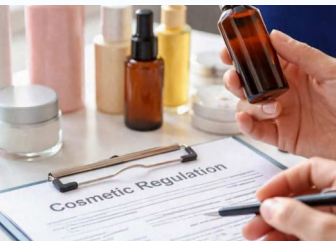
Beauty Salons / Skin Management



Skincare Brands / R&D



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Research / Educational Institutions

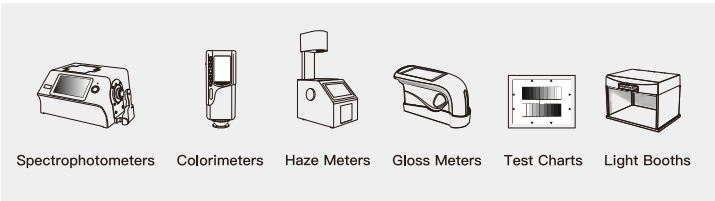
OPTIONAL ACCESSORIES

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

TECHNICAL SPECIFICATIONS

Product Model	PS02 (Skin Colorimeter)
Illumination Geometry	45/0 (45° annular uniform illumination, 0° reception); 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. Compact and portable.
Integrating Sphere Size	/
Illumination Light Source	Full-spectrum LED light source
Sensor	Silicon photodiode array (dual-row 16 sets)
Measurement Wavelength Range	400—700 nm
Measurement Aperture	Φ8mm
Specular Component	/
Color Spaces	CIE LAB
Color Difference Formula	ΔE*ab
Other Colorimetric Indices	ITA°, Skin Type, Erythema Index (EI), Melanin Index (MI)
Observer Angle	10°
Observation Light Source	D65
Display Resolution	0.01
Measurement Time	Approx. 1.0 s
Display	Sample colorimetric values, color difference, pass/fail results, color simulation, color deviation, reflectance (partially via mobile app)
Repeatability	Colorimetric values: ΔE*ab within 0.03 (after warm-up and calibration, average of 30 measurements of white plate at 5-second intervals)
Accuracy	Certified to national metrology standards
Measurement Modes	Single measurement, average measurement (2—99 times) (via mobile app)
Positioning Method	/
Dimensions	Ø32X100mm
Weight	Approx. 88 g
Battery	Lithium battery, up to 12,000 measurements on a full charge
Display	IPS full-color screen, 1.14-inch
Interfaces	USB, Bluetooth
Data Storage	Expandable mass storage via mobile app
Languages	Simplified Chinese, English
Software Support	Android, iOS, Windows, WeChat Mini Program, HarmonyOS
White Calibration	Automatic calibration
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	Data cable, user manual, calibration box, quality management software ,app (Software Download: http://www.3nh.com/en/client_en_14.html)
Optional Accessories	USB micro printer, powder test cell

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