CHNSpec

**50mm ultra-largeaperture**

**Professional measurement of coffee beans' SCAA value, roasting degree, and color difference**

**Coffee Colorimeter**

**DS-806**


# 1. Product Features

- Z50mm ultra-large aperture, suitable for measuring coffee beans of various irregular shapes
- 7-inch touchscreen, simple and user-friendly operation
- One-click measurement of SCAA, HCCI, and roasting degree
- Capable of measuring color values and performing color difference comparison for coffee beans.

# 2. Technical Parameters

| | |
|---|---|
| Model | DS-806 |
| Illumination Method | D/8, including specular reflection light (SCI) |
| Integrating Sphere Diameter | 100mm |
| Light Source | Full-spectrum balanced LED light source |
| Wavelength Range | 400-700nm |
| Reflectance Measurement Range | 0–200%, resolution 0.01% |
| Wavelength Interval | 10nm |
| Measurement Aperture | 50mm |
| Observation Light Source | D65 |
| Observation Light Source | 10° Standard Observer |
| Measurement Time | Approx. 1 second |
| Color Space | CIE LAB |
| Chromaticity Indexes | SCAA value, HCCI index, Roasting Degree |
| Color Difference Formula | ΔE*ab |
| Repeatability | Standard deviation ΔE*ab within 0.03 (Condition: after calibration and warm-up, measure the white plate 30 times at 3s intervals and take the average) |
| Inter-instrument Error | ΔE*ab ≤ 0.4 (Based on the average value of 12 BCRA II color tiles) |
| Maximum Data Storage | 10,000 records |
| Dimensions | 202*264*152mm |
| Weight | Approx. 3kg |
| Power Supply | 100~240V 50/60HZ |
| Measurement Mode | Single measurement, average measurement |
| Light Source Lifetime | 10 years / 2 million measurements |
| Display | 7-inch IPS full-view LCD screen |
| System Languages | Simplified Chinese, English |
| Data Interface | USB |
| Operating Temperature Range | 5–40°C, relative humidity ≤80% (at 35°C), no condensation |
| Storage Temperature Range | -20–45°C, relative humidity ≤80% (at 35°C), no condensation |
| Standard Accessorise | Petri dish, black cavity, white calibration plate, data cable, power cable |

## 3. Optional Accessories

| Material Code | Name | Reference Image |
|---|---|---|
| 3.07.04.2005-0 | 800 Quartz Cylindrical Cuvette |  |
| 3.02.40.0030-0 | Plastic Petri Dish |  |