



AGILE, ROBUST,  
SMART LAB SYSTEM.

SUSTAINABILITY AND RESILIENCE.

**a l a r g e**  
www.alarge.com.tr

# OPTICAL DEVICES

## AL COL HIGH QUALITY COLORIMETER

AL-COL colorimeter, easy to use and cost-effective, widely used in R&D, quality control and production management department, can measure color difference accurately and quickly.

- User friendly design and easy to operate
- Stable performance
- Easy & quick localization
- PC software may realize many additional functions
- Advanced design for power supply

### APPLICABLE INDUSTRIES

Automobile, stonematerial, plastic, metal, paints, printing and others.



### TECHNICAL SPECIFICATIONS

#### ● Illuminating / Viewing

**Geometry :** 8/d

● **Measuring Aperture :** Ø68mm

● **Detector :** Silicon photoelectric diode

● **Color Space :** CIEL\*a\*b\*C\*h\*  
CIEL\*a\*b\* CIEXYZ

● **Color Difference Formula :**  
 $\Delta E^*ab$   $\Delta L^*a^*b^*$   $\Delta E^*C^*h^*$

● **Light Source :** D65

● **Light Source Device :** LED  
blue light excitation

● **Errors Between Each Equipment :**  $\leq 0.40 \Delta E^*ab$

● **Storage :** 100pcs

standards 20000pcs samples

● **Repeatability :** Standard deviation within  $\Delta E^*ab$  0.07  
Average of 30 measurements of standard white plate

● **Weight :** 500g

● **Dimension :** 205\*70\*100 mm

● **Power source :**

Rechargeable lithium-ion battery 3.7V@3200mAh

● **Lamp Life :** 5 years,  
more than 1.6 million measurements

+90 212 924 56 52

**www.alarge.com.tr**

ALARGE ALIÇ AĞACI MAK. ELEK. AR-GE SAN. TİC. LTD. ŞTİ.

Çifte Havuzlar Mah. Eski Londra Asfaltı Cd. YTÜ Teknopark D2 Blok No: 2B01 Davutpaşa - İstanbul/TÜRKİYE

Fax: +90 212 278 61 33 Mail: info@alarge.com.tr

## OPTICAL DEVICES



# AL GLO GLOSS METER

ISO 2813, GB/T 9754, ASTM D 523, ASTM D 2457 STANDARDS.

- 3.5 inch large screen with high resolution full-view display
- Display 5 sets of measurement data, better for comparison
- Connectable to PC, for more extend futures
- Super configuration of hardware, integrated multiple innovative technologies
- Automatic calibration, convenient and quick AL-GLO is an economic gloss meter with independent intellectual property rights. It is manufactured according to ISO02813 and GB/T 9754 standards. It has a large display screen, stable performance, high accuracy and user friendly interface.

### PRODUCT FEATURES

- 60° angle for semi-gloss
- Concise appearance, feel good
- Display 5 sets of measurement data, good for comparison
- Built-in lithium ion rechargeable battery
- Basic model measurement can

meet basic glossiness testing requirements

- Connectable to PC, for more extend futures
- One button for all angles measurement
- Comply with international standards
- Stable performance, easy to read data.

### APPLICABLE INDUSTRIES

Automobile, stonematerial, plastic, metal, paints, printing and others.

### SPECIFICATION FEATURES

- **Measuring Angle:** 60°
- **Comply With Standard:** ISO 2813, GB/T 9754, ASTM D 523, ASTM D 2457
- **Measuring Area (mm):** 9x15
- **Measuring Range:** 0-300GU
- **Division Value:** 0.1GU
- **Measurement Range:** 0-10GU, 10-100GU, 100-300GU
- **Repeatability:** ±0.1GU, ±0.2GU, ±0.2%GU
- **Reproducibility:** ±0.2GU, ±0.5GU,

±0.5%GU

**Measurement Standard:** Conform with JJG696 first class glossmeter working requirement

**Chromaticity Corresponding:** Corresponding with CIE 1931(2°) under CIE C light source

**Errors:** ±1.5, ±1.5 %

**Measuring Time:** 0.5s

**Dimension:** LWH : 160mm\*75mm\*90mm

**Weight:** 350g

**Language:** English

**Battery:** 3200mAh Li-ion battery, >10000 times (within 8 hours)

**Display:** TFT 3.5 inch

**Interface:** USB/RS-232

**Storage:** Basic mode: 1000

**Software:** GQC6 Quality control software

**Operation Temperature:** 0-40°

**Storage Temperature:** -20-50°C

**Humidity:** <85% relative humidity, no condensation

**Standard Accessories:** Power adapter, USB cable, user manual, GQC6 software CD (except HG60S), calibration plate

## AL HAZ HAZEMETER

Transmittance haze meter, AL-HAZ, is designed for plastic sheets, films, glasses, LCD panel, touch screen and other transparent and semi-transparent materials haze and transmittance measurement. It does not need warm-up during test which saves significant time.

### AL-HAZ HAZEMETER ADVANTAGES

- 1** Conforms to international standards **ASTM D 1003, ISO 13468, ISO 14782, JIS K 7361 and JIS K 7136.**
- 2** Three kinds of light sources A, C and D65 for haze and total transmittance measurement.
- 3** It can realize transmittance compensation measurement which can provide higher accuracy test result.
- 4** Open measurement area, no limit on sample size.
- 5** Instrument is with 5.0 inches TFT display screen with good human-computer interface.
- 6** It can realize both horizontal and vertical measurements to process wider class of materials.
- 7** It adopts LED light source whose lifetime can reach 10 years.
- 8** No need to do a warm-up, after the instrument is calibrated, it can be used immediately. The measurement time is only 3 seconds.
- 9** Small size and light weight which makes it much easier to carry.

COMPLIANCE WITH AS TM D 1003,  
ISO 13468, ISO 14782,  
JIS K 7361 and JIS K 7136.

