

Color and Haze Meter/Clarity and Haze Meter

It is designed for plastic, films, glass, LCD panel, touch screen other transparent and semi-transparent materials color, haze and transmittance measurement.



Color and Haze Meter CS-700



Clarity and Haze Meter CS-720

CS-700/720

Product Features

- 1. Different measurement parameters and professional clarity measurement function
- 2. Comprehensive Transmission Color Parameters
- 3. Comply with ASTM and ISO standards
- 4. Different Light Sources for Different Measurement Standards
- 5. Compensation Measurement to Make Test Result More Accurate
- 6. Haze QC software as Standard Accessory
- 7. Seven-inch Android Touch Screen for Better User Experience
- 8. Open Sample Measurement Area, Sample can be Measured Horizontally or Vertically
- 9. Abundant Measurement Fixtures

Technical Data

| Type                            | CS-700                                                                                                                                                                                                                                                                                                                                                                                                                                          | CS-720                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Light Source                    | Haze / Transmittance: CIE-A,CIE-C,CIE-D65<br>Chromaticity index: A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CMF,U30,DLF,NBF,TL83,TL84                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Standards                       | ASTM D1003/D1044,ISO13468/ISO14782 JIS K 7105,JIS K 7361,JIS K 7136,GB/T 2410-08,CIE No.15, ISO 7724/1,ASTM E1164,DIN 5033,Teil7,JIS Z8722,Condition c standard                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Parameters                      | Haze (HAZE),Transmittance (T),Spectral transmittance, CIE Lab, LCh, CIE Luv, XYZ, Yxy, , Hunter Lab Munsell MI,CMYK, Whiteness WI(ASTM E313-00,ASTM E313-73, CIE,ISO2470/ R457, Hunter, Taube Berger Stensby),Yellow Index YI(ASTM D1925, ASTM E313-00, ASTM E313-73), Tint(ASTM E313-00), Heterochromatic index Milm, APHA, Pt-Co(Index of platinum cobalt), Gardner, Color difference (ΔE*ab,ΔE*CH,ΔE*uv,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*94,ΔE*00) | Haze (HAZE),Transmittance (T),Spectral transmittance,Clarity CIE Lab, LCh, CIE Luv, XYZ, Yxy, , Hunter Lab Munsell MI,CMYK, Whiteness WI(ASTM E313-00,ASTM E313-73, CIE,ISO2470/ R457, Hunter, Taube Berger Stensby),Yellow Index YI(ASTM D1925, ASTM E313-00, ASTM E313-73), Tint(ASTM E313-00), Heterochromatic index Milm, APHA, Pt-Co(Index of platinum cobalt), Gardner, Color difference (ΔE*ab,ΔE*CH,ΔE*uv,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*94,ΔE*00) |
| Spectral Response               | CIE The spectrum functionY/V(λ)                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Wavelength                      | 400-700nm                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Wavelength Interval             | 10nm                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Geometry                        | 0/d                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Measurement Area<br>Sample Port | 16.5mm/21mm                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18mm/25.4mm                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Measurement Range               | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Haze Resolution                 | 0.01%                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Haze Repeatability              | Haze < 10%, Repeatability≤0.05;Haze≥10%, Repeatability≤0.1%;Transmittance≤0.1%                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sample Size                     | Thickness≤145mm                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Display                         | 7 Inches Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Memory                          | Mass storage                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Interface                       | USB-A,USB-B                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power                           | 220V ( with power cable )                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Working Temperature             | 5~40°C, Relative humidity 80% or below (at 35 ° C), no condensation                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Storage Temperature             | -20°C~45°C, Relative humidity 80% or below (at 35 ° C), no condensation                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Size<br>Weight                  | length X width X height: 598mmX247mmX366mm<br>12kg                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Standard Accessory              | PC management software(Haze QC)                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Optional                        | Measurement Fixture, Haze standard film                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sphere Diameter                 | 154mm                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |