

## Transparency Transmission and Clarity Haze Meter

Models: H-700, H-720



### Overview

The H-700 and H-720 Clarity and Haze Meters are designed for one-stop measurement solutions, suitable for evaluating color, haze, spectral transmittance, and total transmittance of transparent and translucent materials such as plastics, films, glass, LCD panels, and touch screens.

- Meets American ASTM and international ISO standards for haze measurement, including GB/T 2410, ASTM D 1003, ISO 13468, and ISO 14782.
- Measures haze, total transmittance, spectral transmittance, and clarity (clarity exclusive to H-720), and also assesses dozens of color parameters including Lab, yellowness, whiteness, Gardner, and platinum-cobalt color.
- Provides multiple measurement light source options for haze, including A, C, D65, among others. And 24 light source options for color measurement.
- Enables compensatory transmittance measurements for more accurate transmittance test results.
- Includes standard data analysis and management software, allowing for computer-based operation and the ability to print test reports.
- Features a 7-inch touchscreen with an Android operating system for more convenient operation and a smoother user experience.
- Open sample chamber that eliminates size constraints on samples, allowing the instrument to be positioned vertically or horizontally according to practical application requirements.
- Offers a comprehensive selection of fixtures to meet the measurement needs of various sample forms, including films and liquids.

# Specifications

Model	Haze meter 700	Clarity and haze meter 720
<b>Illuminants</b>	Haze / Transmittance: CIE-A,CIE-C,CIE-D65 Chromaticity index: A, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CMF, U30, DLF, NRF TI 83 TI 84	
<b>Standards</b>	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	
<b>Measurement parameters</b>	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/ISO, 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 ( $\Delta E^*ab,\Delta E^*CH,\Delta E^*uv,\Delta E^*cmc(2:1),\Delta E^*cmc(1:1),\Delta E^*94,\Delta E^*00$ )	Haze (HAZE),Transmittance (T),Spectral transmittance, <b>Clarity(C%)</b> , CIE Lab, LCh, CIE Luv, XYZ, Yxy, , Hunter Lab Munsell MI,CMYK, Whiteness WI(ASTM E313-00,ASTM E313-73, CIE/ISO, 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 ( $\Delta E^*ab,\Delta E^*CH,\Delta E^*uv,\Delta E^*cmc(2:1),\Delta E^*cmc(1:1),\Delta E^*94,\Delta E^*00$ )
<b>Spectral response</b>	CIE luminosity function Y/V( $\lambda$ )	
<b>Geometry</b>	0°/diffus	
<b>Illumination and aperture area</b>	16.5mm/21mm (diameter)	18mm/25.4mm (diameter)
<b>Illumination and aperture area</b>	6.50 in / 8.27 in (diameter)	7.09 in / 10 in (diameter)
<b>Measurement range</b>	0-100%	
<b>Resolution</b>	0.01 unit	
<b>Repeatability</b>	haze < 10%, repeatability≤0.05; haze ≥ 10%, repeatability≤0.1%;	
<b>Wavelength range</b>	400-700nm	
<b>Wavelength interval</b>	10nm	
<b>Sample size</b>	Thickness≤145mm	
<b>Memory</b>	20,000 readings	
<b>Interface</b>	USB	
<b>Languages</b>	English French German Italian Spanish Chinese Japanese Russian	
<b>Power supply</b>	110V / 220V / 240V	
<b>Operating temperature</b>	5 - 40 °C, 41 - 104 °F	
<b>Storing temperature</b>	10 - 40 °C, 50 - 104 °F	
<b>Dimensions: L x W x H</b>	59.8 x 24.7 x 36.6 cm, 23 x 10 x 14 in	
<b>Weight</b>	26 kg, 26 lb	
<b>Standard</b>	PC management software	
<b>Optional</b>	Measuring fixture, Haze standards, Transmittance standards, 5mm/7mm/10mm apertures, 40 * 10 Glass Cell	