

# Clarity & Haze Meter HTC-1003

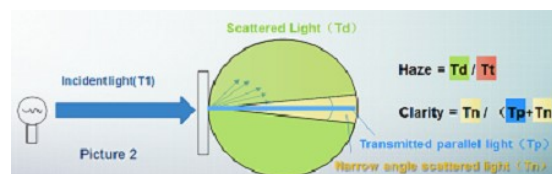


It is designed for clarity, colour, haze, spectral transmittance and total transmittance measurement of transparent and translucent materials such as plastic sheets, films, glass, LCD panel and touch screen, etc.



## Instrument Introduction

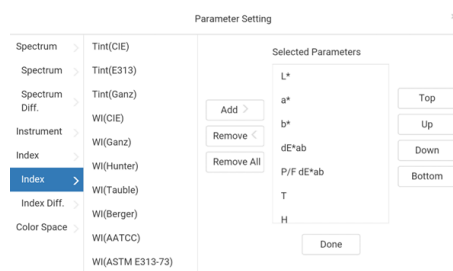
**1. Different measurement parameters and professional clarity measurement function.** The clarity and haze meter HTC-1003 can not only measure haze, transmittance, and transmission colour, but also provides professional clarity measurement function, suitable for applications in high-definition films, display glass and other fields.



Clarity Measurement Theory

## 2. Comprehensive Transmission Colour Parameters

Clarity and haze meter HTC-1003 has comprehensive color parameters, which can measure dozens of colour parameters such as Lab, yellowness index, whiteness index, Gardner, Pt-Co / APHA / Hazen colours.



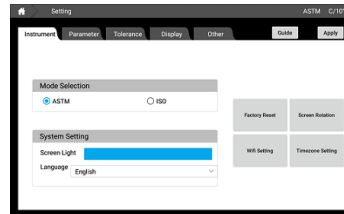
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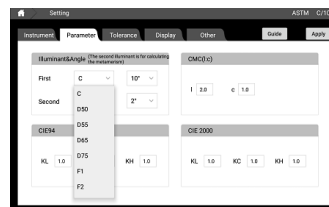
### 3. Comply with ASTM and ISO Standards

The clarity and haze meter HTC-1003 complies with both ASTM and ISO measurement standards. It can meet the following measurement standards ASTM D1003 / D1044, ISO13468 / ISO14782, JIS K7105, JIS K7361, JIS K7163 and other international standards.



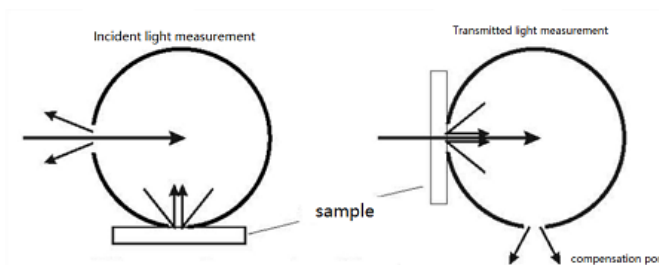
### 4. Different Light Sources for Different Measurement Requirements

Clarity and haze meter HTC-1003 provides A, C and D65 measurement light source selection, and 24 types of measurement light source for colour measurement.



### 5. Compensation Measurement to Make Test Result More Accurate

It can realize the compensation measurement of transmittance and provide more accurate transmittance test results.



### 6. Haze QC software as Standard Accessory

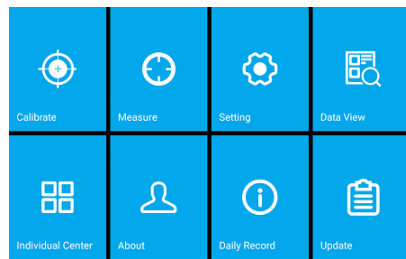
Provide powerful haze, colour, and transmittance measurement and analysis software, which can operate on a computer to generate and print test reports.



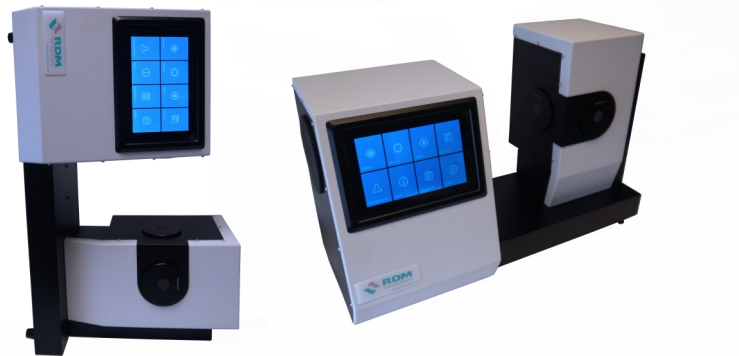
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### 7. Seven-inch Android Touch Screen for Better Testing Experience

Android operate system and touch screen for more convenient operation and better user experience.

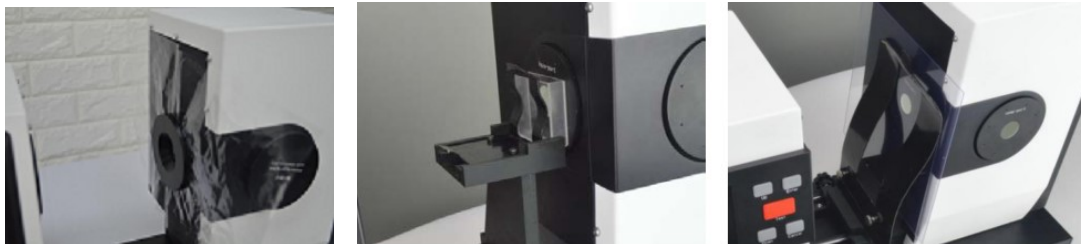


**8. Open Sample Measurement Area, Sample can be Measured Horizontally or Vertically.** Open sample measurement area, which is no limit on sample size, you can perform horizontal or vertical measurement according to different samples.

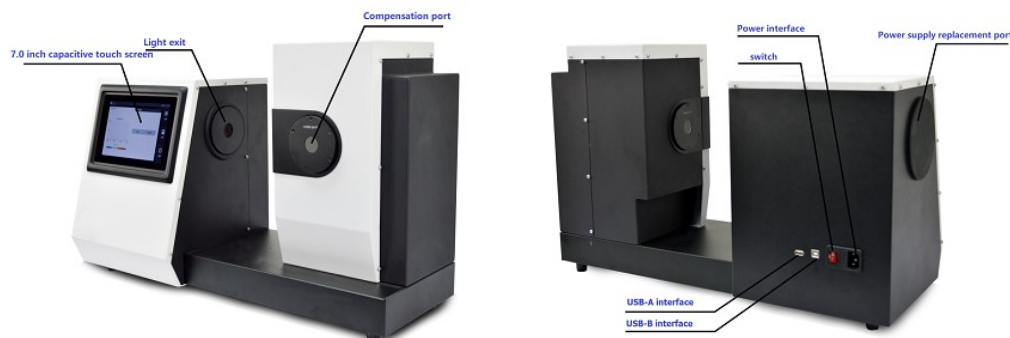


### 9. Abundant Measurement Fixtures

Meet the measurement needs of different forms of sheet and liquid samples Soft and Tough Film Fixture Liquid Fixture



## Instrument Pictures



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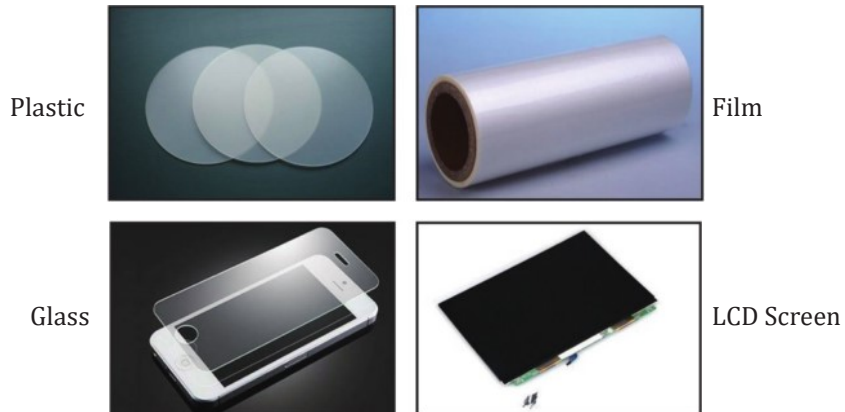
### Specifications

<b>Model</b>	<b>Haze Meter HTC-1003</b>
<b>Light Source</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, NBF, TL83, TL84
<b>Standards</b>	ASTM D1003/D1044, ISO13468/ISO14782, JIS K 7105, JIS K 7361, JIS K 7136, CIE No.15, ISO 7724/1, ASTM E1164, DIN 5033 Teil7, JIS Z8722 Condition C standard, GB/T 2410-2008
<b>Parameters</b>	HAZE, Transmittance Curve and Value(T), Clarity (C%), CIE Lab, LCh, CIE Luv, XYZ, Yxy, Transmittance Spectrum, Hunter Lab Munsell MI, CMYK, WI (ASTM E313-00, ASTM E313-73, CIE/ISO, Hunter, Taube Berger Stensby), YI (ASTM D1925, ASTM E313-00, ASTM E313-73), Tint (ASTM E313-00), Metamerism IndexMilm, APHA, Pt-Co, Gardner, Colour difference ( $\Delta E^*ab$ , $\Delta E^*CH$ , $\Delta E^*cmc$ (2:1), $\Delta E^*cmc$ (1:1), $\Delta E^*94$ , $\Delta E^*00$ )
<b>Spectral Response</b>	CIE Luminosity function Y/V ( $\lambda$ )
<b>Wavelength</b>	400-700nm
<b>Wavelength Interval</b>	10nm
<b>Geometry</b>	0/d
<b>Illumination and Test Aperture Size</b>	16.5mm/21mm
<b>Measurement Range</b>	0-100%
<b>Haze Resolution</b>	0.01 Unit
<b>Haze Repeatability</b>	Haze <10%, Repeatability $\leq 0.05\%$ ; Haze $\geq 10\%$ , Repeatability $\leq 0.1\%$ ; Transmittance Repeatability $\leq 0.1\%$
<b>Sample Size</b>	Thickness $\leq 145\text{mm}$
<b>Data Storage</b>	20,000 pcs of samples
<b>Display</b>	7 inch TFT LCD Screen, Android System
<b>Interface</b>	USB
<b>Power</b>	110-240V
<b>Working Temperature</b>	0~45°C, relative humidity 80% or below( at 35°C ), no condensation
<b>Storage Temperature</b>	-25~55°C, relative humidity 80% or below( at 35°C ), no condensation
<b>Dimensions</b>	598mm x 247mm x 366mm (L x W x H)
<b>Weight</b>	12kgs
<b>Standard Accessory</b>	PC Software (Haze QC)
<b>Optional</b>	Measuring Fixture, Haze Standards, Transmittance Standards, 5m / 7mm / 10mm Apertures, 40 * 10 Glass Cell



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### Applications



### Technical Support



The HTC-1003 Haze Meter comes with one year warranty.

