

**Haze-Gard i** ASTM D1003, ASTM D 1044, ISO 13468, ISO 14782

[www.WorldofTest.com/haze-gard-i.htm](http://www.WorldofTest.com/haze-gard-i.htm)

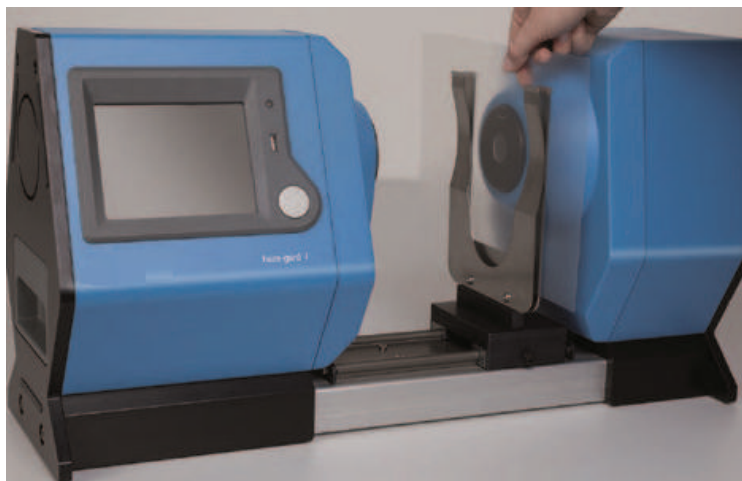
**The objective standard for a clear view**

Transparent products can have a milky or fuzzy appearance dependent on their light scattering behavior. The haze-gard i quantifies the visual perception with objective measurement criteria:

**Features**

- Total transmittance
- Transmission haze
- Clarity

Haze-gard i controls complete transparency by taking only one reading.

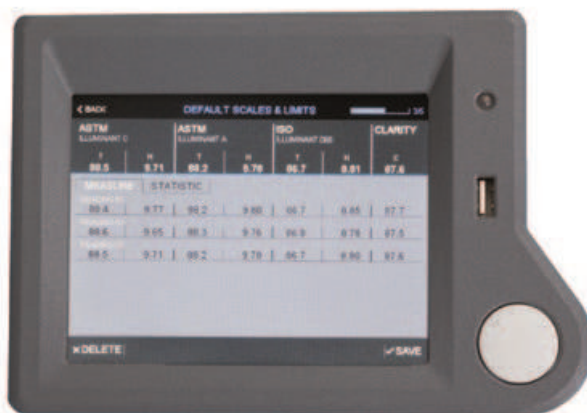


**Global communication**

Haze and transmittance control according to international standard methods with one unit:

- ASTM D1003 – illuminants C and A Non-compensated method
- ISO 13468 – illuminant D65 Compensated method

haze-gard i displays all results simultaneously - well prepared for any customer specification.

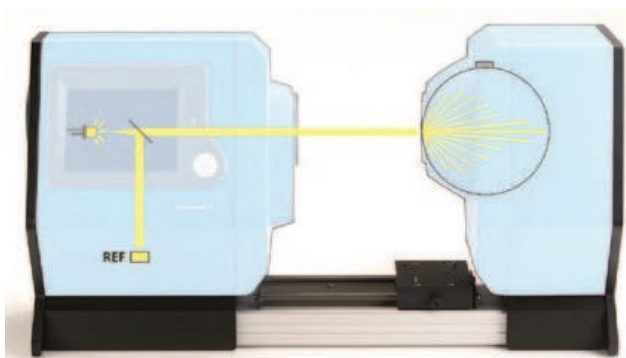


**Reliable and Precise**

With state-of-the-art optics and LED technology the haze-gard i delivers an unprecedented performance:

- Reference beam, self-diagnosis and enclosed optics
- LED light source assures long-term stable results for many years: 10 year warranty on the lamp life.
- Automatic, long-term calibration - operator friendly and safe

Superior repeatability and inter-instrument agreement are guaranteed.



Haze-Gard i ASTM D1003, ASTM D 1044, ISO 13468, ISO 14782

**Smart and Fast**

The new touch display is designed to be intuitive and easy to use for any task:

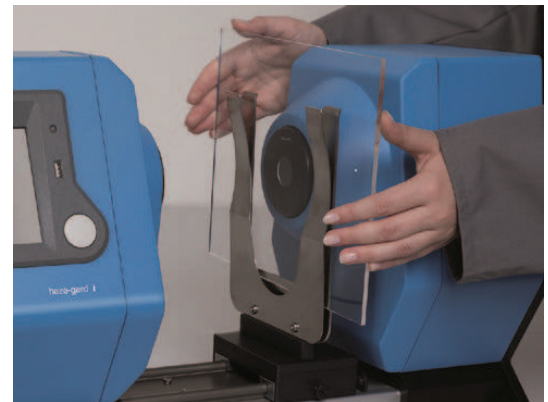
- Large touch display in color
- Symbols to select a menu function
- Dedicated measurement button
- Foot switch allows hands-free operation



**Open and Flexible**

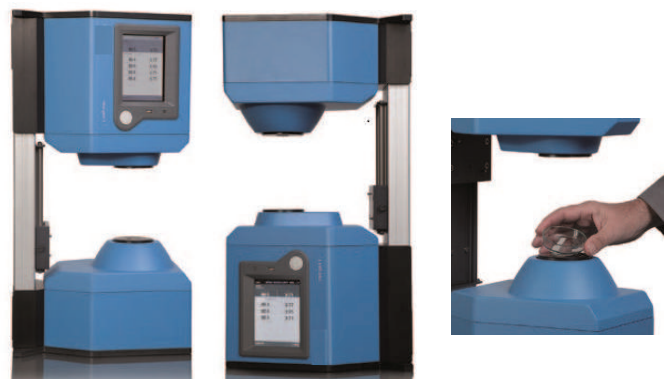
The open measurement compartment lets you work freely to analyze any sample size:

- Open design for small and large specimens
- Fast change and positioning of samples
- No influence of ambient light
- Versatile sample holder for films and sheets
- Sample holders for taber abrasion test and cuvettes for liquids optional
- Customized sample holders can be easily attached



**Horizontal or vertical set-up**

Sample handling in any position is convenient and allows you highest flexibility.



Haze-Gard i **ASTM D1003, ASTM D 1044, ISO 13468, ISO 14782**

**Onboard analysis**

Measurement data can be analyzed and saved in projects directly in the haze-gard i for efficient work management:

- Large instrument memory (5000 readings)
- Complete statistics with averaging, min / max, standard deviation
- Limit input for different product specifications with colorful Pass/Fail analysis



**Professional Connection**

Data transfer can be performed in all sorts of ways to support you in routine lab work:

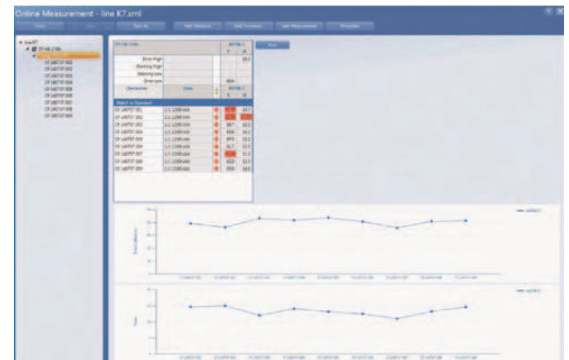
- Direct data transfer via USB-port to PC
- Direct LAN connection to your network for further analysis in Laboratory Information Management Systems (LIMS)
- Save data on a USB-stick



**Smart-Lab Haze – Data Analysis Software**

Whatever the task, smart-lab haze will do it for you. From simple data tables of single test series to trend reports over time – anything is possible.

- Define your product specifications in standard management by setting up product groups with Pass/Fail limits
- Measure your products online and get instant QC reports displayed: Data table with statistic and line graph including Pass/ Fail coloring
- Manage your lab work in projects to show production process stability using trend reports
- Transfer product specs and projects to haze-gard i and vice versa for daily work management



**Haze-Gard i** ASTM D1003, ASTM D 1044, ISO 13468, ISO 14782

Technical Specification	
Illuminants	CIE-C, CIE-A (ASTM D1003) CIE-D65 (ISO 13468, ISO 14782)
Spectral Response	CIE luminosity function y
Geometry	0° / diffuse
Measurement Area	∅ 18 mm (0.7 in)
Sample Port	∅ 25.4 mm (1.0 in)
Measurement Range	0 - 100 %
Repeatability	± 0.1 units (standard deviation)
Reproducibility	± 0.4 units (standard deviation)
Memory	5000 readings
Interface	LAN, USB 2.0, additional front USB-port for memory stick
Power Supply	115 V /230 V self-adapting
Operating Temperature	+10 to 40 °C (+50 to 104 °F)
Storage Temperature	0 to 50 °C (+32 to 122 °F)
Dimensions	62 x 33 x 22 cm (24 x 13 x 9 in)
Weight	18 kg (40 lbs)

### Standards

- ASTM D 1003, D 1044
- ISO 13468, 14782

### Comes complete with:

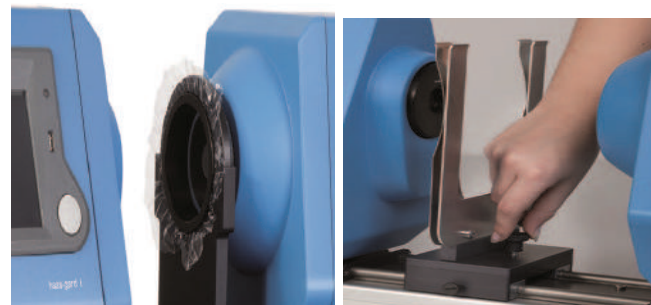
- Hazemeter
- Guide carriage for sample holders
- Clarity calibration standard
- Traceable certificate
- Foot switch and power cable
- USB-cable and LAN-cable
- smart-lab haze software on CD with License Key (2 licenses)
- Operating manual

### Versatile sample holders for specific needs

We offer sample holder for films and sheets. The precision guide carriage allows easy replacement of different holders. We also offer special holder for very thin films.

The measurement of haze is used to determine abrasion resistance of transparent materials. The haze-gard i Abrasion Holder facilitates positioning of the abraded area in the measurement beam.

Liquids are best measured using cuvettes and the cuvette table.



**Haze-Gard i** ASTM D1003, ASTM D 1044, ISO 13468, ISO 14782

**Traceable Reference Standards for Haze, Clarity and Total Transmittance**

- Reference for regular performance control of the haze meter
- Various standards available
- Comes in protective case with traceable certificate



Part #	Description
AT-4775	Haze-Gard i Includes: Haze meter, Guide carriage for sample holders, Clarity calibration standard, Traceable certificate, Foot switch and power cable, USB-cable and LAN-cable, smart-lab haze software on CD with License Key (2 licenses), Operating manual, Training
<b>Calibration Accessories</b>	
AT-4776	Clarity Calibration Standard
AT-4777	Clarity Reference Standard
AT-4790	Haze Standard 1
AT-4791	Haze Standard 5
AT-4792	Haze Standard 10
AT-4793	Haze Standard 20
AT-4794	Haze Standard 30
AT-4795	Haze Standard Set
AT-4778	Transmittance Standard 10
AT-4779	Transmittance Standard 30
AT-4780	Transmittance Standard 50
AT-4781	Transmittance Standard 70
AT-4782	Transmittance Standard 90
AT-4783	Transmittance Standard Set
<b>Optional Accessories</b>	
AT-4784	Thin Film Holder – Special holder for very thin films
AT-4785	Taber Abrasion Holder - For evaluation of abrasion resistance with the haze meter
AT-4786	Cuvette Table – For measurement of liquids
AT-4788	Sample Holder
AG-6180	Cuvette Table for Liquids, 2.5 mm
AG-6182	Cuvette Table for Liquids, 5 mm
AT-6183	Cuvette Table for Liquids, 10 mm
AT-6189	Cuvette Table for Liquids, 20 mm
AT-4865	Smart- Lab Haze Software for professional analysis and documentation