

GlasSmart1000

On-site Optical and Thermal Parameters Measuring System for Insulating Glass

Standards: ISO 15099, ISO10292, ISO 9050

Measure optical & thermal parameters

Directly measure IG

Suit for onsite and lab use

WiFi connection



Brief

GlasSmart1000 is a portable measuring system suitable for on-site measurement of installed building glass. It can quickly measure the glass structure, non-destructive measure U value and SHGC of insulating glass.

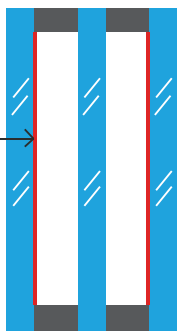
Parameters

Item	Parameters
Light source	Halogen
Wavelength range	300~2500nm
Interface	WiFi
Lithium battery for control box	14.8V/5Ah, charging time is about 4 hours
Lithium battery for T head	14.8V/3Ah, charging time is about 3 hours
Duration working time	3 hours
Measurement time	about 20 minutes
Glass types	installed or un-installed energy saving glass without scattering
Sample thickness	Single pane: 50mm, IG:42mm (6+12A+6+12A+6)
Power supply	DC20V
Working conditions	-10°~40°, < 90%RH

Remark:Aoptek reserves the right to modify the information, the actual instrument & manual be as final.

Measurable Parameters

- Low-E position
- E value



- Visible light transmittance
- Visible light reflectance
- Glass thickness
- Space thickness
- Overall thickness
- Total Solar Energy Transmittance
- Total Solar Infrared Heat Transmittance
- Shading Coefficient
- U value
- LSC



The GlasSmart1000 is developed by Aoptek, which can be calibrated by the China National Institute of Metrology (NIM).

Application

Production verification
Finished glass inspection
Self validating before sending
the third party



Glass enterprise

Window



Factory inspection
Construction site inspection
Comparison of glass products
from different manufacturers

Laboratory inspection
Project site inspection



Inspection unit

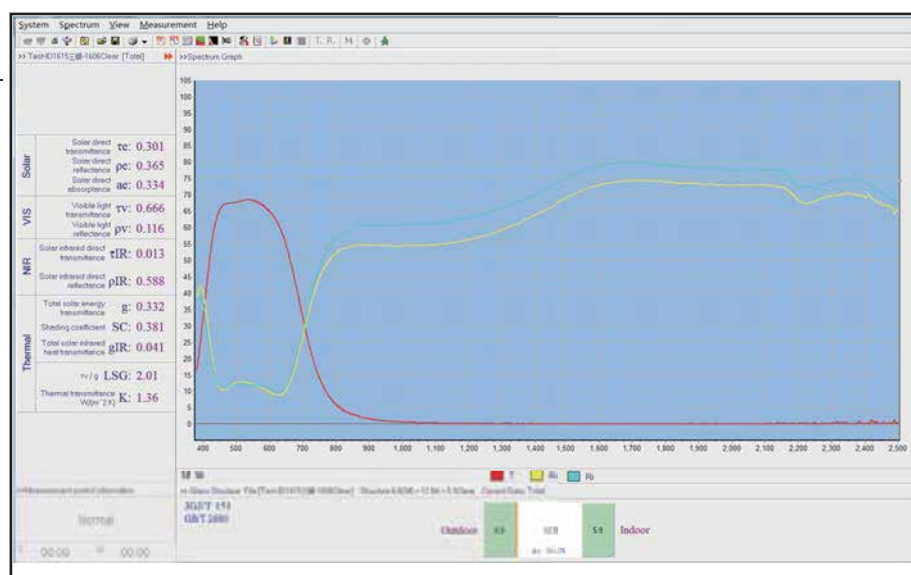
Construction unit



Construction site inspection
Comparison of different manufacturers
Evaluation of existing window & curtain wall

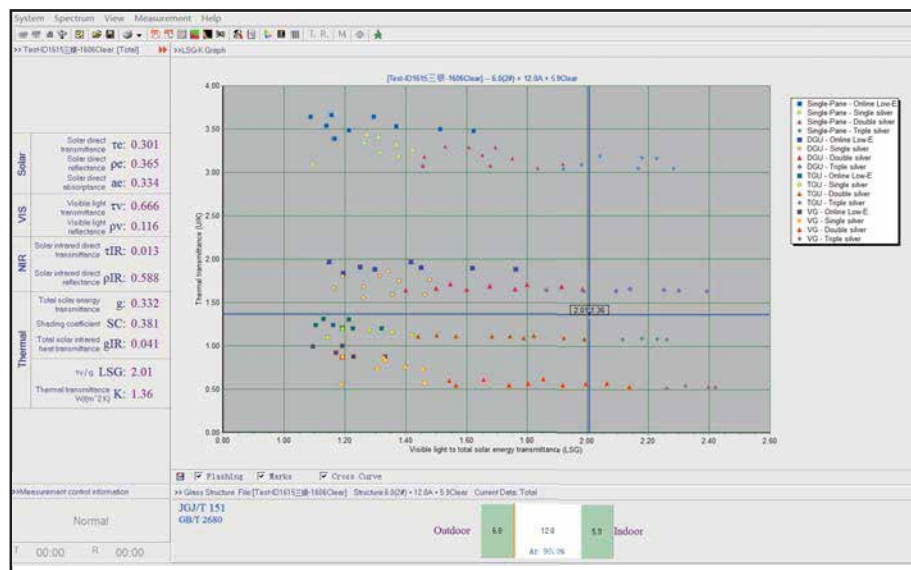
Measurement Interfaces

Show all
Optothermal
parameters



→ Spectrum Curve

→ Glass Structure Parameters



Characteristics

All basic parameters can be measured, spectrum transmittance & reflectance, thickness, Low-E side, and E value.

All optical and thermal parameters are calculated according to relevant standards.

Nondestructive measurement, directly measure the optical and thermal parameters of IG.

Field measurement, directly measure the installed glass.

Guided measurement, easy to use.

Reliable result, the measurement value can be traced back to NIM.

Lithium battery power supply, suitable for site use.