

COH 5500

Measurable in the wavelength range of 400nm to 700nm at 10nm interval.

Spectral transmittance, Transmittance Color, Haze and color of the petroleum products can be measured by this one unit.

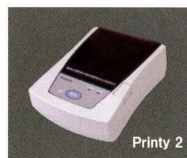


Exclusive use for transmittance measurement

Related Standards

Color : JIS Z8722,
ASTM E308,ASTM E313,Other
Color of petroleum products :
JIS K2580,ISO6271,Other
Haze : JIS K7361-1,JIS K7136,JIS K7105,
ISO13468,ISO14782,ASTM D1003

Option



Printy 2

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4types of measuring items you can choose to display.

Spectral transmittance, OD

Transmittance Color

Yxy, L*a*b*, ΔE*ab, YI

Color of petroleum products

Hazen color number (APHA),
Gardner color number,
ASTM color,
Saybolt color

Haze

Total light transmittance,
Diffuse transmittance,
Parallel transmittance,
(Turbidity)

(option)

Features

- Transmittance color and Haze can be measured simultaneously.
- Haze and Total light transmittance can be measured under the Standard ISO13468, ISO14782 and ASTM D1003.
- APHA (Hazen color number), Gardner color number, ASTM color and Saybolt color can be measured. (The input of the calibration curve is option)
- Adopts Sliding door which is easy to set the sample up to the size of 120mm×120mm.
- Adopts 5.7" TFT color LCD which is easy to see screen display. The display using a touch panel allows a user to intuitively perform operation.
- The measurement data can be saved into USB memory stick.

Specifications

Illumination&light receiving condition	Color measurement : 0:di(compliant with JIS Z8722) Haze measurement : Total light transmittance(compliant with ISO13468) Haze(compliant with ISO14782)
Size of integration Sphere	φ150mm
Measuring method	Double beam system Back end spectroscopy method
Spectrum method	Diffraction grating
Photodetector	CMOS linear image sensor
Range of measuring Wavelength	400nm to 700nm
interval of output	10nm
Light Source Lamp	White LED
Display panel	5.7 inch TFT color LCD
Operation switches	Touch panel, Membrane switch
Transmission sample chamber	Adopts large sliding door Standard sliding sample holder *A sample up to the size of 120mm×120mm can be set with standard sample holder *A cell up to the size of 20mm can be set with standard sample holder A cell up to the size of 100mm can be set with exclusive liquid cell holder(option) Measurement is possible by test tube(option)
Display on the screen	Various color values, Color difference values, Target values, Metamerism, Spectral values, Spectral graphs, Lab graphs, Color deviation criterion chart, Pseudo color, Yxy graph

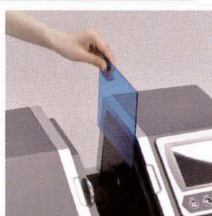
Illuminant observation	A, C, D65, F6, F8, F10
Observation condition	2°observer, 10°observer
Measuring items	Color : XYZ, Yxy, L*a*b*, L*C*h*, Lab, LCh, HVC, YI (ASTM E313-05), YI (ASTM D1095), MI, ΔE*ab, ΔE, ΔE*94, ΔE00, CMC, Haze : Haze, Total light transmittance, Diffuse transmittance, Parallel transmittance, (Turbidity) Color of Petroleum : Hazen color number (APHA), Gardner Color number, ASTM color, Saybolt color (The input of the calibration curve is option) *The Optical path length of a cell recommended by the measurement item of petroleum products changes
Averaging	2 to 99 times, settable arbitrarily
USB memory	Saving measurement data (CSV) Saving screen image Measurement data stores in the COH7700's internal data memory can be copied and saved (CSV) Saving and reading the user setting (File system FAT32)
Interface	USB port (for communication with PC) USB memory (for file system: FAT32) parallel port (for printer)
Environment for use	Temperature: 15°C to 35°C, Humidity: 80% R.H or less, No condensation
Power supply	AC100V to 240V, 50/60Hz
Dimensions & weight	540(W) × 378(D) × 255(H) mm, Approx. 17kg
Option	Thermal Printer (Printy 2), Data management software, Exclusive liquid cell holder, Various sample cell, etc.

* The above specifications are subject to change without pre-notice in the future due to technical improvement.

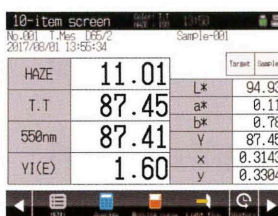
Measurement examples

Evaluation for Film, Resin and Glass

Transmittance color, Haze and Spectral transmittance can be measured simultaneously by one measurement.
Measuring items : $L^*a^*b^*$, Yxy, YI, Haze, Total light transmittance, Spectral transmittance, etc.



Measurement for Plate sample



Film

Resin

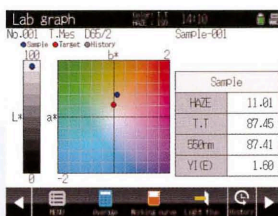
Evaluation for Color of petroleum products

Transmittance color, Turbidity, Spectral transmittance and Color of the petroleum products can be measured simultaneously by one measurement.
Measuring items : Hazen color number (APHA), Gardner color number, ASTM color, Saybolt color, $L^*a^*b^*$, Spectral transmittance, etc.

* The Optical path length of a cell recommended by the measurement item of petroleum products changes



Measurement with 100mm cell



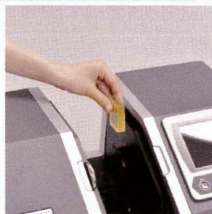
Measurement by test tube (option)



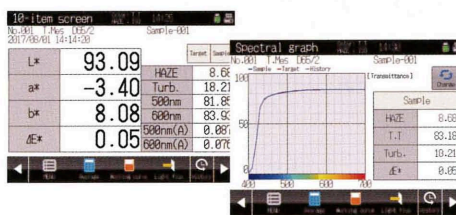
Petroleum

Evaluation for Cosmetic and Drinking water

Transmittance color, Turbidity and OD can be measured simultaneously by one measurement.
Measuring items : $L^*a^*b^*$, ΔE^*ab , Haze, Turbidity, Spectral transmittance, OD, etc.



Measurement with 10mm cell

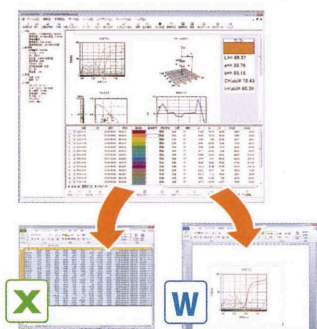


Liquid

Option

Data management software

Using Data management software, analysis of measurement data and various graph are possible on the display of your personal computer. By copying each screen, you can paste it to a spread sheet software and word processing software.



Specification

Environment for operation	O.S. : Windows10, Windows8.1, Windows8, Windows7 PC : CPU (Pentium 2GHz or faster), Memory (2GB or more), HDD (100MB or more vacant memory), Optical drive (CD-ROM), Display (1366×768 pixels of more/full colors recommended), Interface (USB port)
Display/Print	Data list, Spectral curve graph, 3D Lab graph, etc.
Measuring items	XYZ, Yxy, $L^*a^*b^*$, $L^*C^*h^*$, Lab, LCh, HVC, Haze, Total light transmittance, Diffuse transmittance, Parallel transmittance, Turbidity, Hazen color number (APHA), Gardner Color number, ASTM color, Saybolt color, YI (ASTM E313-05), YI (ASTM D1095), MI, ΔE^*ab , ΔE , ΔE^*94 , $\Delta E00$, CMC, etc.

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