

TZ 7700

**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, Other
Haze : JIS K7105

Option



4 types 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)

Features

- Transmittance color and Haze can be measured simultaneously.
- Spectrophotometer which adopts white LED.
- Transmittance color can be measured under the Standard illuminants and other illuminants.
- Adopts Sliding door which is easy to set the cell up to the size of 100mm.
- 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 : (compliant with JIS K7105)
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
Measuring time	Color measurement: Approx. 6sec. (Color and Haze simultaneous measurement: Approx. 10sec.)
Display panel	5.7 inch TFT color LCD
Operation switches	Touch panel, Membrane switch
Transmission sample chamber	Adopts large sliding door A cell up to the size of 100mm can be set with exclusive liquid cell holder 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 observer	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 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 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.