

- Performance tester of color filter ink used in liquid crystal panel etc.
- Measurement display the transmission luminance at low luminance and high luminance as contrast.



CT-1 制御プログラム [Ver 2.20.00]

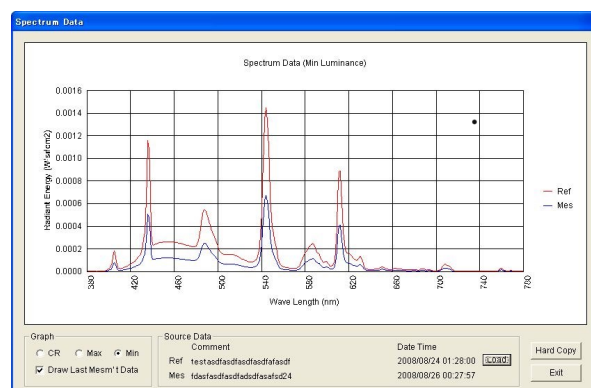
ファイル ツール ヘルプ

【測定結果】

No.	測定値	MAX値	MIN値	コメント	日時時刻
1	10210.000	1021.000	0.100	test1-1	2015/09/17 09:46:49
2	10311.111	1020.800	0.099	test1-2	2015/09/17 09:47:49
3	10200.000	1020.000	0.100	test1-3	2015/09/17 09:49:40
4	10200.000	1020.000	0.100	test1-3	2015/09/17 09:50:37
5	10305.051	1020.200	0.099	test1-3	2015/09/17 09:51:26

Clear 最低輝度 = 0.059 試料チェック ワンボタン校正 原点位置調整 輝度調整 キャリブレーション 測定

TSUBOSAKA ELECTRIC



CT-1 series are measurement tester of contrast feature of paint for LCD (liquid crystal display).

Sandwiches the specimen with two polarizing plates, and rotates one of the polarizing plate by the electric rotating stage.

Measures the maximum value and minimum value of the transmission light quantity from the constant light quantity correctly, and measures the extinction ratio (contrast) in the state of passing through the sample.

There are three grades.

In Professional, it is possible to measure surrounding 4 points in addition to one conventional measurement point automatically.

In addition, functions that clean the inner of tester, and adjust the inner temperature automatically are added. (In Standard, option setting possible)

Measurement outline

What to measure

Measures the contrast of resist ink spin-coated on glass.

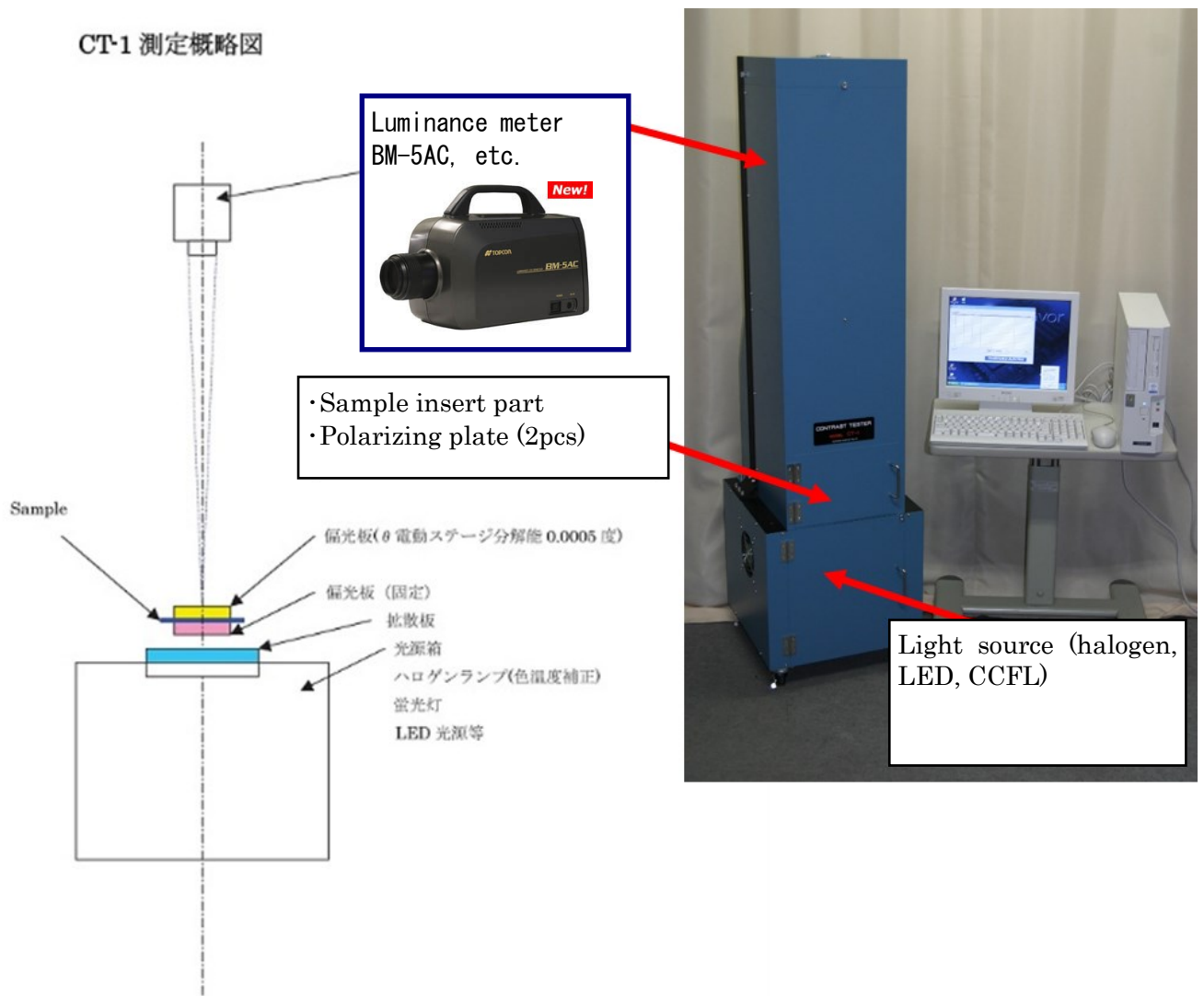
Measurement method of contrast

Controls the luminance to enter in ink by the polarizing plate, and reproduces the low luminance time and high luminance time.

e.g: 3000cd/m^2 , 0.1cd/m^2 Contrast 30000:1

Feature of polarizing plate

State in which two sheets of polarizing plates are superimposed and the light passes in the parallel state at the maximum. The state where light is orthogonally 90 degrees from that point is minimize the amount of light passing through.



Main functions (Three grades)

Light	Standard	Professional
Measurement display of contrast		
Dedicated PC software compatible with Windows10		
Storage of measurement values (CSV form)		
One button calibration function		
Sample tray size (200mm square)		100mm square
Measurement point : Center one point		5points auto measurement *1
x, y chromaticity measurement (BM-5AC, SR-UL2, CS-2000A)		
Spectroscopic measurement (SR-UL2, CS-2000A)		
		Internal clean air mechanism
		Internal heater mechanism (Temperature auto adjustment)

*1 Measures contrasts of the center and surrounding 4points with auto XY stages.
Sample tray size is changed to 100mm square.

Configuration/Model (Light)

Series name	CT-1L Series
Model	CT-1-LL1
Luminance meter	LS-150 (KONICA MINOLTA)
Configuration	Main unit · Polarizing plate (slide type) 1set · Light source 1pcs · Dedicated PC software
Light source	Select one from below (same price) Halogen light source (500cd/m ² or 1000cd/m ²) CCFL light source (either of 1000, 2000, 3000cdm ²) LED light source (3000cd/m ²)
Option	Desktop PC & monitor Notebook PC PC rack PC rack for clean room Cher for clean room Sample tray miniaturized plate (conversion plate)

Configuration/Model (Standard)

Series name	CT-1ST Series		
Model	CT-1-STB1	CT-1-STS2	CT-1-STC1
Luminance meter	BM-5AC	SR-UL2	CS-2000A
Configuration	Main unit · Polarizing plate (slide type) 1set · Light source 1pcs · Dedicated PC software		
Light source	Select one from below (same price) Halogen light source (500cd/m ² or 1000cd/m ²) CCFL light source (either of 1000, 2000, 3000cdm ²) LED light source (3000cd/m ²)		
Option	Desktop PC & monitor Notebook PC PC rack PC rack for clean room Cher for clean room Sample tray miniaturized plate (conversion plate) Addition of clean air mechanism & heater mechanism *Neither mechanism can be added alone.		

Configuration/Model (Professional)

Series name	CT-1P Series		
Model	CT-1-PB1	CT-1-PS2	CT-1-PC1
Luminance meter	BM-5AC	SR-UL2	CS-2000A
Configuration	Main unit · Polarizing plate (slide type) 1set · Light source 1pcs · Dedicated PC software 5points auto measurement · Internal clean air mechanism · Internal heater mechanism		
Light source	Select one from below (same price) Halogen light source (500cd/m ² or 1000cd/m ²) CCFL light source (either of 1000, 2000, 3000cdm ²) LED light source (3000cd/m ²)		
Option	Desktop PC & monitor Notebook PC PC rack PC rack for clean room Cher for clean room		

Common specifications

Common measurement item	Contrast value · Maximum luminance · Minimum luminance
Measurement target	Ink etc, that is coated to glass
Thickness of sample	Max 2.0 [mm]
Measurement reproducibility	±5 [%] or less (at temperature 25°C±2°C)
Rotating stage resolution	0.0025 [deg]
Power supply voltage	AC100~AC220 ±10% [V] 50/60 [Hz]
Measurement environment	Temperature : 25 +/-5 [°C] Humidity : 30~85 [%] No condensation
Storage environment	Temperature : 5~45 [°C] Humidity : 30~85 [%] No condensation

*The following depends on model.

- ① Measurement item
- ② Measurement display contents
- ③ Sample size (sample tray size)
- ④ Measurement time per sample.
- ⑤ Dimensions and weight.

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