Equipment for Brightness Distribution Measurement **ColorLive**

"ColorLive" is the instrument to collectively measure the brightness distribution of surface light sources such as LED backlight and regular illumination where the uniformity is required.

Space saving

Easy handling

Low cost

Easy introduction

USB memory key and USB cable

Image of measurement

It is possible to designate luminous region, to instantaneously check the result and also to measure color and chromaticity on maximum 10,000 points at a time.

It is possible to specify precise-circular, ellipsoidal or polygonal areas in the designated luminous region.

X	Y	cd/m2	x	y
4	1	8690.36	0.269	0.280
5	1	7847.46	0.269	0.280
6	1	6393.53	0.269	0.283
0	2	6830.26	0.269	0.284
1	2	8109.02	0.269	0.281
2	2	8888.98	0.269	0.280
3	2	9182.22	0.270	0.280
4	2	8973.13	0.269	0.280

Information
Camera Serial : CLIVE-150P3-BK-26054
Exposure : 978   Limit Brightness : 15817.6
Divide : X=7 [10.0%] Y=5 [15.0%]
Set Divide : Normal
Measure Method : Circle 5.0mm

Edit Limit

Brightness(cd/m2)

		Lower	Upper
Max	9182.22	0	0
Min	5872.43	0	0
Ave	7805.45	0	0
Cen	9182.22	0	0
Uniformity(%)	63.95	0.00	0.00

Color

x Max	0.270	0.00	0.00
x Min	0.269	0.00	0.00
x Cen	0.270	0.00	0.00
y Max	0.284	0.00	0.00
y Min	0.280	0.00	0.00
y Cen	0.280	0.00	0.00

AutoSave
AutoSave FolderPath

In response to mass production line

■ Automatic judgment function of acceptance/rejection

Judgment of acceptance/rejection can be made by setting the conditions of optical specifications. If measured results are out of specifications, the values are displayed in red color.

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Min	5872.43	0	0
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y Min	0.280	0.00	0.00
y Cen	0.280	0.00	0.00

☐ Edit Limit

After measurement, "OK" or "NG" can be displayed in large letters automatically.

OK

NG

■ Keylock function

In order to prevent malfunctioning or incorrect setting, the system can be administered by Password.

■ Multiple languages (Japanese, English, Chinese) can be displayed.

Data saving

Measured data can be saved by the following file format.

■ Graphical content : JPEG PNG BMP ■ Measured value : CSV
■ Original : CLI
  Re-measurement from the original file (CLI) is possible.

Measurement results can be saved automatically in sequential form of last 4 digits of 0001～9999.
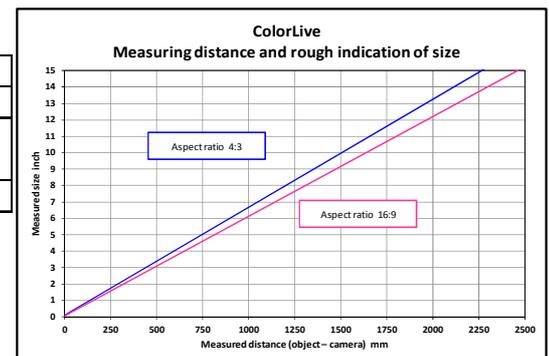
Contents of the equipment

Camera unit	1 set	(with 4.8m USB cable)
USB memory key	1 piece	(with manual for installation)

Main specifications

Measuring specifications

Lens	Made by FUJINON HF25SA-1 (C mount)
Camera	1.5 million PIXEL (1,360 x 1,024 pixel) 1/2 inch CCD
Resolution of camera	Color camera : RGB 256 gradations each (24 bit in total)
	Monochrome camera : 256 gradations (8 bit)
Measurement error	Within ±5% when calibrating brightness and chromaticity

ColorLive
Measuring distance and rough indication of size

Aspect ratio 4:3

Aspect ratio 16:9

Measured size inch

Measured distance (object – camera) mm

Operating environment

CPU	Intel Core 2 Duo 2.0GHz or more.
Memory	1,024MB or more (Not-used-physical memory of more than 100MB is needed when program execution).
HDD	More than 10MB of free space is needed when installing.
OS	Windows XP SP1 or more, Windows Vista, Windows 7.
USB	Two or more USB2.0-supporting ports need to be available.
	To be used for camera connection and USB memory key.
	For camera connection USB port, use USB controller that chip-set made by INTEL is built in.
Monitor	Required to display resolution of more than XGA (1,024 x 768).
	Recommended to display resolution of more than SXGA (1,280 x 1,024) with size of 17 inches or more.

Reliability specifications of camera

Recommended environment	0～+35℃ recommended (＜80%RH, no condensation)
MTBF	＞70,000hrs (at +60℃)

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