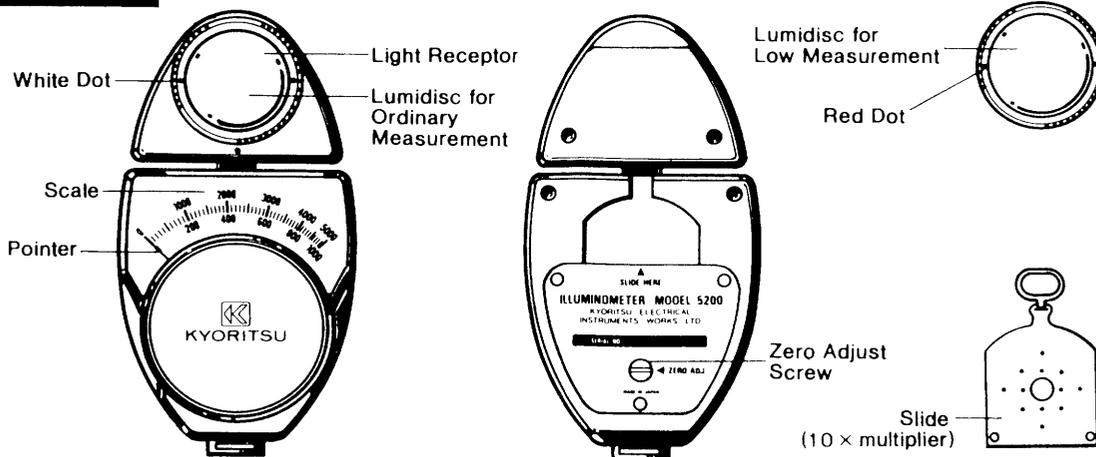


# ILLUMINOMETER

# MODEL 5200

## DESIGNATIONS



## FEATURES

### Functional Design

Compact, lightweight and portable. Designed for maximum ease of operation throughout.

### Highly Accurate

±10% accuracy. Permits a wide range of light measurements from 0 to 5,000 Lux. Sealed against dust.

### Swivel Head

Swivel head that revolves 300 degrees will always allow the user to make measurements at an optimum viewing position.

## OPERATING INSTRUCTIONS

### Preparations for Measurements

#### Zero Adjustment

Where no light enters into the light receptor the pointer should be at zero. If not, turn the zero adjust screw on the back of the instrument until the pointer comes to the zero position.

#### Setting Lumidisc

Insert the lumidisc into the light receptor. Make sure that the white or red dot on the outer ring of the lumidisc is set to the white or red dot on the light receptor. Turn the lumidisc lightly clockwise (45 to 90 degrees) until it tightly fits in the light receptor.

#### How to Make Measurements

##### Ordinary Measurement (0~5,000 Lux)

Set the lumidisc for ordinary measurement (with white dot) on the light receptor of the illuminometer. Then, place the lumidisc of the illuminometer in parallel to the surface to be measured. Read the BLACK figure on the scale.

##### Measurement of High Illumination Levels (5,000~50,000 Lux)

Set the lumidisc (with white dot) for ordinary measurement on the light receptor. Then, insert the slide into the slit located on top of the light receptor. Make the light measurement in the same way as the ordinary measurement described above. Read the BLACK figure on the scale and multiply the reading by 10 to obtain the true Lux.

##### Measurement of Low Illumination Levels (0~1,000 Lux)

Set the lumidisc (with red dot) on the light receptor of the illuminometer and make the same light measurement as the ordinary measurement described above. Read the RED figure on the scale and multiply the reading by the correction factor of each light source (see below) to obtain the true Lux.

#### Correction Factor

Mercury Arc Lamp	× 1.1
Fluorescent Lamp	× 1.0
Incandescent Light	× 1.0
Daylight	× 0.8

#### Example:

When the pointer indicates 600 Lux. under mercury arc lamp the true Lux. is:  $600 \times 1.1 = 660$

## SPECIFICATIONS

Model 5200	
Ranges:	
Low	0~1,000 Lux (Red Scale)
Ordinary	0~5,000 Lux (Black Scale)
High	0~50,000 Lux (Black Scale w/10x slide.)
Accuracy:	± 10% (tested by a standard parallel light tungsten lamp of 2854°K colour temperature)
Angle Allowance:	
30°	Less than — 3%
60°	Less than — 10%
Correction of	0~1,000 Lux Use correction factor.
Sight Sensitivity:	0~5,000 Lux Read directly.
Power Source:	No battery required.
Operating Conditions:	
Temperature	0~40°C
Humidity	45~85%
Dimensions:	112mm(L) × 58mm(W) × 27mm(D)
Weight:	135g
Accessories:	Instruction Manual / Carrying Case / Lumidisc for Ordinary Measurement / Lumidisc for Low Measurement / Slide

## CAUTION

1. Be careful not to let any shadow enter the surface of the lumidisc at every measurement.
2. When making light measurements make sure to place the illuminometer in parallel to the surface to be measured.
3. Do not leave the illuminometer in high temperature and high light intensity environments for many hours.
4. It should also be housed in a carrying case and kept in a dry place when not in use.



**KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.**  
 No 5 20, Nakane 2 chome, Meguro ku, Tokyo, 152 Japan  
 Phone (03)723-0131 Telex 0246-6703  
 Cable Address "KYORITSUKEIKI" TOKYO  
 Factories Tokyo, Uwajima & Ehime (JIS Licensed Factory)