Digital Illuminance Meter
Model: LX1010B
Operation Manual

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As this device is an intellectual precise measurement apparatus, it is very important that you read through these instructions before using this device.
Your purchase of this DIGITAL LUX METER makes a step forward for you into the field of precision measurements. Although this LUX METER is a complex and delicate instruments, it’s ruggedness will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach.
VI MEASURING CONSIDERATION

As the DIGITAL LUX METER is a high accurate & sensitive instrument and its PHOTO SENSOR has special feature for the curve on low display reading area. Therefore if display indicates one or more leading zeros, user has to shift Range switch to the next lower range scale to improve resolution and accuracy. For example.

<table>
<thead>
<tr>
<th>Range</th>
<th>x1</th>
<th>x10</th>
<th>x100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>182</td>
<td>018</td>
<td>002</td>
</tr>
<tr>
<td>Reading</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

User should select Range Switch to “x1” range, and the exact reading values is 182 LUX.

VII REPLACEMENT OF BATTERY

1. It is necessary to replace battery, when left corner of LCD display show “ ”.
2. Slide the battery cover.
3. Replace the battery (6V DC 9V)

I FEATURES

- Precise and easy readout.
- High accuracy in measuring.
- LSI-circuit use provides high reliability and durability.
- Permits a wide range of light measurements.
- LOW BATTERY indicator.
- Auto zero adjust.
- LCD display provides low power consumption.
- Compact, light-weight, and excellent operation.
- LCD display can clearly read out even in high ambient light.
- Separate LIGHT SENSOR allows user take measurements at an optimum position.

II GENERAL SPECIFICATIONS

Display: 18mm (0.7”) LCD (Liquid Crystal Display)
Ranges: 1~100,000 Lux (3 Ranges)
Over-input: Indication of “1”
Sampling Time: 0.4 second
Operating Temperature: 0°C to 50°C (32°F to 122°F)
Operating Humidity: less than 80%RH
Dimension: 130x72x30mm
Weight: 170g (including battery)
Power Supply: 606P DC 9V battery
Consumption current approx. 2mA
Standard Accessories: Light Sensor............1 pc
Instruction manual.........1 pc


### III ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Range (Lux)</th>
<th>Resolution (Lux)</th>
<th>Accuracy (23 ± 5°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–1,999</td>
<td>1</td>
<td>± (4%rdg±2d)</td>
</tr>
<tr>
<td>2,000–19,999</td>
<td>10</td>
<td>± (4%rdg±2d)</td>
</tr>
<tr>
<td>20,000–100,000</td>
<td>100</td>
<td>± (5%±2d)</td>
</tr>
</tbody>
</table>

*NOTE: Accuracy tested by a standard parallel light tungsten lamp of 2854 K temperature*

### IV SPECTRAL SENSITIVITY CHARACTERISTIC

(Spectra Sensitivity)

![Spectral Sensitivity Graph](Fig 1)

### V CORRECTION FACTOR

- Mercury Lamp: x1.1
- Fluorescent Lamp: x1.0
- Incandescent Light: x1.0
- Daylight: x1.0

### VI PANEL DESCRIPTIONS

(Fig 2)

1. LCD display
2. Range select button
3. Turn off, turn on, value hold
4. Photo detector