Contents

Appearance Introduction .......................................................... 4
Packing Contents ........................................................................... 5
Product Features ........................................................................ 6
Measurement Introduction ......................................................... 7
Setting Items ................................................................................ 8
Save File ..................................................................................... 10
SRI-2000-UV computer software installation steps ....................... 11
Transferring Data With PC Connection ........................................ 12
Spectroradiometric Report ............................................................. 13
Measuring Capabilities ................................................................ 14
Power Indicator Light ................................................................. 15
GAMMA Test Report ................................................................. 16
Shanghai Institute of Metrology Test Report ............................... 17
Product Specification .................................................................. 18
Appearance Introduction

29mm integrating sphere receptor

Light collector

Power Switch

Mini USB port

Power Jack
Packing Contents

SRI 2000  Power adaptor  USB cable

Protection Bag  Case
Product Features

◆ Fast booting level, can perform instant measurement, no unnecessary action, measurement result is real time display.
◆ Using integrating sphere as light entrance port, consist perfect consine effect at different angel.
◆ Unique long focal length, high precision spectrometer for measurement.
◆ Connect to PC to transfer and remote operation control.
◆ Measurement result is real time display.
◆ Simple operation with accurate measurement, R1-R15 measurement are clearly shown.
◆ A wide range of Illuminance, up to 10lx illumination can be measured.
◆ Spectral irradiance resolution 0.5nm, half bandwidth resolution 1.0nm.
◆ Save up to 500000 files.
◆ Connect to PC to export the data by USB.
◆ Can be output as Excel file.
◆ Formal report output.
Measurement Introduction

1. Press "measuring" begin to make measurements.

2. At appropriate distance then press power switch.

3. Measured data will display on the screen.
Fast switching the screen shown to follow, read all the information.

Fast Boot level, can perform instant measurement, no unnecessary action, measurement result is real time display.
Set Icon

Save Icon

Save Settings

Cancel

Dark current Calibration:
Please follow the message instructions, and complete Dark current Calibration.

Measurement type:
- Single
- Continuous

Measurement Backlight:
- ON
- OFF

Auto Save File:
- ON
- OFF

Auto save file name:
MeasureData - 0

Delay time (5~3600s):
10 s

End time (1~1000 minute):
1 minute

Measuring wavelength range:
250 nm - 850 nm

Sound:
- ON
- OFF

SDCM standard:
- Fluorescent
- ANSI

Power factor:
Ev: 1.0

Spectral scale mW max value:
- Auto set
- Manual

Language:
- English
- 繁體中文
- 日本語

System Information

Save File
File Name:
MeasureData-0001

Load File
New select:
N/A

MeasureData-0003.csv

SerialNumber: SRI-171107

Updated: 20180103

HHSC: ver_1.1.0.0

APP: ver_3.7.0.0

DLL: ver_1.5.0.3

DataRecipients: ver_3.3.0.0

OnlineControl: ver_1.3.0.0

Reset

Dark current Calibration

SRI-2000-UV
SRI-2000-UV computer software installation steps

Software and Drive installation process, please refer Disc Drive

1. Install dotNetFx40_Full_x86_X64.

2. Please complete SRI-2000-UV operating system, connected to mini USB cable, click Driver folder selected computer system vision then installation the driver.

3. Confirm Driver is installed successfully.
   (Please back to windows than check driver manager.)

4. Installation software SRI-2000 Data Recipients_ver_X_X_X_X.
Export Data to PC

1. Use USB cable to connect SRI-2000-UV and PC.
2. Install the software.
Output data can be printed into a formal report.

Spectroradiometric Report

Radiometry and Photometry Measurements Analysis

Ev = 838.96 lx  Ee = 2691.6000 mW/m²  PPFD = 11.68 umol/m²s  J = 0.2692 mJ/cm²  
Candle E = 77.94 fc

Spectrum Measurements Analysis

Color Rendering Index :  Ra = 75.9 %
R1 = 74  R2 = 81  R3 = 82  R4 = 76  R5 = 74  R6 = 71  R7 = 85  R8 = 65
R9 = 71  R10 = 51  R11 = 71  R12 = 43  R13 = 76  R14 = 90  R15 = 71

Color Quality Scale :  Qa = 70.68

Chromaticity Coordinates :  x = 0.3236  y = 0.3327  SDCM = 3.79  u' = 0.2040  v' = 0.4719  Δu'v' = 0.0043

Correlated Color Temperature :  Tc = 5917.7 K  Dominant Wavelength :  λd = 490.85 nm

Color purity :  Purity = 3.22%  Peak Wavelength :  λp = 451.50 nm  Half Band Width :  Δλd = 19.00 nm

Product Name :  Product No :  
Operator :  Test Date :  2018-1-5  
Ambient Temperature :  Humidity :  
Manufacturer :  Remarks :  
SRI-2000-UV Spectrophotometer  Optimum optoelectronics Corp.
Measuring Capabilities

◆ Illuminance(lx)
◆ Spectral Irradiance
◆ Chromaticity Coordinates(x,y)
◆ Correlated Color Temperature(CCT)
◆ Color Rendering Index; Ra(CRI)
◆ Dominant Wavelength(λd)
◆ Half-with Wavelength(Δλd)
◆ Peak Wavelength(λp)
◆ Purity
◆ SDCM for ANSI standard
◆ CIE-1931(x,y)
◆ CIE-1976(u’,v’)
◆ Binning

Power Indicator Light

Red : Charging
Green : Power on
Blue : Low battery
Yellow : Power on and charging
Cyan : Power on and low battery
White : Power on and low battery charging
※This product is used the new lithium battery, please refer to the following Cautions and charging:

1. The new Lithium batteries have no memory effect, can be charged on any time, The battery is charged before it has been exhausted, battery life will be longer.

2. The user should charge when the cyan light is on (about 3 ~ 4 hours remaining power - depending on the use of the situation), do not let the machine forced off before charging, otherwise it will reduce battery life, If the power is not enough to force shutdown, turn OFF the switch and then charge it.

3. If the machine is forced to shut down before the power is charging, may occur:
   (1) Flash red light: Please re-plug the adapter to continue charging.
   (2) Machine can not boot: As the battery protection mechanism is enabled, to be consecutively charged about 2.5 hours before stand-alone use, for emergency use is connected to the adapter before the boot.

4. It is recommended that the machine be turned off when charging.

5. Continuous charging about six hours later, the charging protection at this time, please re-plug the adapter to continue charging, if the battery is fully charged, the charge indicator (red) will automatically turn off.

6. When charging, you must use the adapter provided by OPTIMUM, do not use other adapters or methods to charge the product, so as to avoid the damage of the circuit.

7. Do not connect the mini-USB while the machine is on or off, otherwise it the adapter to charge.

8. If the above precautions are not followed and the charging method causes damage, it is not within the scope of the machine warranty.
<table>
<thead>
<tr>
<th><strong>PRODUCT SPECIFICATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Detector Type</strong></td>
</tr>
<tr>
<td><strong>Cosine Receptor Diameter</strong></td>
</tr>
<tr>
<td><strong>Measurement Range</strong></td>
</tr>
<tr>
<td><strong>Wavelength Range</strong></td>
</tr>
<tr>
<td><strong>Exposure Time Range</strong></td>
</tr>
<tr>
<td><strong>Capture Mode</strong></td>
</tr>
<tr>
<td><strong>Integrating Mode</strong></td>
</tr>
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| **Measuring Capabilities** | 1. Illuminance / Lux  
2. Spectral Irradiance  
3. C.I.E Chromaticity Coordinates  
   (1) C.I.E 1931 (x, y) Coordinates  
   (2) C.I.E 1976 U.C.S (u', v') Coordinates  
4. Peak Wavelength  
5. Dominant Wavelength  
6. Correlated Color Temperature; CCT (in Kelvins)  
7. Color Rendering Index; Ra (Rendering Average)  
8. SDCM for ANSI standard  
9. Binning |
| **Digital Resolution**   | 16 bits |
| **Dark Calibration**     | Auto |
| **Stray Light**          | 0.001% |
| **Wavelength Data Increment** | 0.5 nm |
| **Wavelength Accuracy**  | ± 0.3 nm |
| **FWHM**                 | 6 nm (Spectrometer) |
| **Illuminance Accuracy** | ±2% / ±4% |
| **Color Accuracy**       | ±0.001 / ±0.003 |
| **Color Repeatability**  | ±0.0003 / ±0.0005 |
| **CCT Accuracy**         | ±1% / ±2% |
| **CRI Accuracy @ Ra**    | ±0.8% / ±1.5% |
| **Display**              | 5" LCD 480X800 Touch Panel |
| **Max. files storage**   | Up to 500000 Files |
| **Battery Operation Time** | Up to 6 hours continuous use |
| **Battery**              | 3400 mAh / Rechargeable lithium ion battery |
| **Date Output Interface** | mini-USB 2.0 |
| **Data Format**          | Microsoft Excel compatible |
| **Weight (with Battery)** | 660 g ± 20 g |
| **Size (mm)**            | 200(L)×92(W)×30(H) |
| **Operating Temperature Range** | 0 ~ 50° C |