



Smart Sensor

SS04U



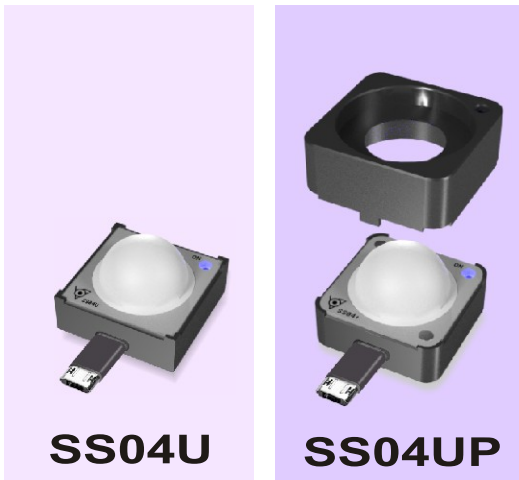
SS04U is a device designed for measurements of illuminance, based on a high speed photo sensor with sensitivity adapted to human eye. SS04U can easily be applied to a smartphone and can turn it into a professional instrument. You can use SS04U to take measurements of ambient and flash lights or you can evaluate the flicker of a light source; it features a wide measurement range and it can capture very short light impulses. Flash data can be internally stored for post-processing. An improved version with a XYZ true color sensor on board (SS04UC) is available for color temperature measurements of both ambient and flash lights.



- Lux Meter
- Light Meter
- Flash Meter
- Flicker Meter
- Color Meter

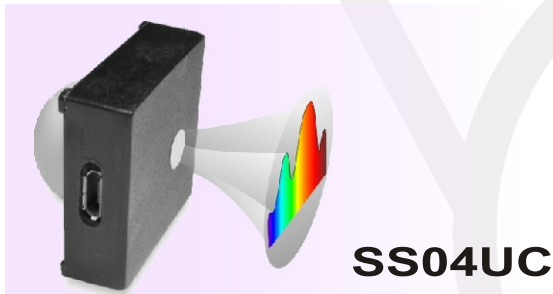
The device is powered from the host via the USB interface and there is no battery inside it.

SS04U is compatible with most of Android phones and tablets and it is fully supported by the app LxMeter.



SS04U

SS04UP



SS04UC

SS04UC is a special version of SS04U which is upgraded with an additional sensor for color measurements.

The SS04U sensor is compatible with the Android app LxMeter. You can download LxMeter from Google Play Store.



Technical specifications

MEASUREMENT RANGE

- Operating range: 0.1...3000000 lx (-5...20 EV @ISO100)
- Accuracy: $\pm 5\%$ (0.1 EV @ISO100)
- Sampling rate selectable from 1 us to 16 us

FLASH LIGHT

- Minimum flash pulse width: 1/250000 s

MEASUREMENT SENSOR

High speed silicon photodiode with spectral sensitivity $V(\lambda)$ adapted to human eye + hemispherical diffuser

COLOR TEMPERATURE (SS04UC)

- Illuminance range: 1...2500000 lx
- CCT range: 2000K...10000K
- Color accuracy: 0.002 Duv (typ @2700K,3500K,5000K)
- XYZ true color sensor + flat diffuser

POWER SUPPLY

- Self powered by USB interface (USB host mode requested)
- Available with reversible Micro-B or Type-C USB adapter

OPERATING TEMPERATURE

0°...40°C working (RH max 85% at 25°C)
20°...60°C storage

ENCLOSURE

- Black polyamide PA6 (SS04U)
- Black anodized aluminium (SS04UP)

DIMENSIONS

- 30 mm x 30 mm x 10 mm
- 30 mm x 30 mm x 20 mm with light shield (SS04UP)

WEIGHT

- ~10 g (SS04U)
- ~25 g (SS04UP with light shield)

