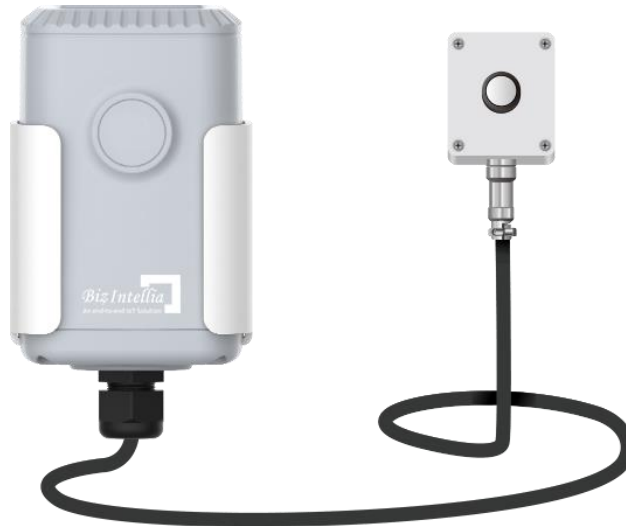# Intellia Light Sensor
INT-Light-02

Introduction:

Intellia Light Sensor is designed for measuring light in harsh environments and transmitting data using LoRaWAN technology. With this low power consumption technology, Light Sensor can work up to 5 years with 19000 mAh battery. Combining with Biz4Intellia LoRaWAN gateway and Intellia IoT Platform, users can manage all sensor data remotely and visually.

Light Senosr is widely used for outdoor applications like smart agriculture, urban lighting, etc.

◆ Features

- ➢ Wide measuring range and high precision
- ➢ Ultra-wide-distance transmission up to line of sight of 10km
- ➢ IP66 waterproof enclosure for harsh environment applications
- ➢ Built-in 19000 mAh replaceable battery and work for 10 years without replacement
- ➢ Equipped with NFC for easy configuration
- ➢ Compliant with standard LoRaWAN gateways and network servers
- ➢ Quick and easy management with Biz4Intellia IoT Platform

◆ Applications

- ➢ Smart buildings
- ➢ Urban lighting
- ➢ Greenhouse control
- ➢ Smart agriculture
- ➢ Weather monitoring

◆ Specifications

Wireless Transmission	
Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-147dBm @300bps
Mode	OTAA/ABP Class A

Measurement	
Range	0 - 100000 lux
Accuracy	±3%
Resolution	1 lux

Operation	
Power On & Off	NFC, power button (Internal)
Configuration	Mobile APP(via NFC) or PC software(via USB Type-C)

Physical Characteristics	
Cable Length	3 m
Power Supply	19000 mAh Li-SOCL$_2$ battery (ER34615)
Battery Life*	4 years (10 min interval, SF12) >10 years (10 min interval, SF7)
Operating Temperature	-30°C to +60°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP66(Transceiver)/IP65(Light Sensor)
Dimension	Transceiver: 105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in) Light Sensor: 64 × 58 × 34 mm (2.5 × 2.3 × 1.3 in)
Installation	Pole, wall or DIN Rail Mounting