

UV LTR-390 sensor

Overview

The LTR-390 is a compact UV and ambient light sensor with high sensitivity, low power consumption, and I²C interface. Ideal for UV index monitoring, wearables, and IoT, it's used in environmental, healthcare, and industrial applications

Key Features

- Dual sensing capability – detects both UV intensity and ambient visible light.
- Ultra-low power design – consumes only ~1.5 μ A in standby mode.
- Digital interface – I²C communication with multiple address options.
- High sensitivity & accuracy – suitable for wearables and precise UV index monitoring.
- Compact form factor – optimized for integration in small IoT and portable devices.



Technical Specification

- Operating Voltage: 1.7 V to 3.6 V.
- Interface: I²C digital (configurable addresses).
- Detection Range: UV index measurement + visible light sensing.
- Current Consumption: 1.5 μ A in standby (low-power operation).
- Package: Compact sensor package suitable for wearables and embedded systems.

Application

- UV Index Monitoring – environmental monitoring and personal UV trackers.
- Wearables – smartwatches, bands, and fitness trackers.
- Automatic Brightness Control – smartphones, tablets, laptops.
- IoT Devices – smart home and connected sensing applications.
- Healthcare & Industrial – UV safety, sterilization monitoring, and light control.