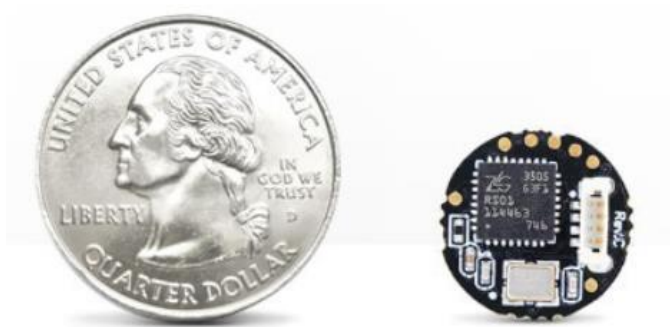# Intelligent Rain Detection Module

INTRODUCTION

This smart rain sensor offers a fast way to detect rainfall change on glass in real-time free from effects like sunlight, dust, leaves, etc., and feeds back information (no rain, light rain, moderate rain, or heavy rain) to users.

The module comes with a tiny body with a diameter of about 12.5mm, which adapts to cameras of all kinds. It can be used in security monitoring, smart home, smart agriculture, and so on. This small sensor can be easily embedded in projects even with strict space limits like box cameras and speed dome cameras.

The sensor can achieve accurate real-time rainfall detection in any rainfall environment, and its built-in optical algorithm can intelligently filter ambient factors like sunlight, dust, leaves, etc., to ensure precise rainfall data collection in complex conditions. It gives feedback about rainfall changes like light, moderate or heavy rain.

Besides, it is equipped with functions like ambient light detection and temperature detection that can monitor internal device temperature. With the combination of rainfall, ambient and internal temperature, this sensor helps users build up smart, comprehensive, and cost-effective rainfall detection applications.

The sensor supports rainfall detection sensitivity adjustment for use in different rainfall and environments.

Also, it has low power mode that reduces power consumption, greatly extending module service life.

This module is mainly used to detect rainfall on the surface of windshield glass and send rainfall information (no rain, light rain, moderate rain, and heavy rain) to the camera host. Then camera host can control wipers to get rid of the raindrops on the windshield to ensure a clear view for the camera in rainy conditions. So, these smart rain detection modules are very suitable for smart doors or windows, smart windshield wipers, and so on.

FEATURES

Can achieve accurate real-time rainfall detection in any rainfall environment

Equipped with functions like ambient light detection and temperature detection

Supports rainfall detection sensitivity

APPLICATIONS

Security monitoring

Smart home

Smart agriculture

SPECIFICATION

Communication: UART

Serial Communication Rate: 115200 bps

Voltage: 3.3V

Operating Current: ＜50mA

Temperature Range: -40℃~85℃

Dimension: diameter about 12.5±0.15mm

Wiring：Black-VCC，White-UART_TX，Yellow-UART_TX，Red-GND

SHIPPING LIST

Intelligent Rain Detection Module x1

Adapter Cable x1