



# CH-C202 Ambient Light Monitoring Equipment

**Daylight Sensor**

(LTE Channel)



**User Manual**

VERSION: CH-C202-01

**CHENG HONG E-TECH. CO., LTD**

## I: Equipment Introduction

The CH-C202 Environmental Light Monitoring Equipment is independently researched and developed by our company. According to the Road/Tunnel environment, it cooperates with the intelligent lighting centralized controller to automatically control the illuminance of the lamps according to the changing of environmental brightness, to achieve the purpose of intelligent management and control.

Traditional municipal street lighting, tunnel lighting, industrial lighting such as factory&warehouse lighting Switches Controlling Modes are generally divided into Loop Controlling, Sunrise & Sunset Controlling, the corresponding fixtures Loop Controlling in different time periods. Although the controlling is mature and widely used, there are still many problems, such as: it can't be automatically adjusted Brightness at rainy, sandy weather , the adjustment range is fixed (only loop switch); moreover, it is impossible to know the environmental brightness of the project site in time. In response to these problems, our company launched this Luminance Collection Equipment. which integrates brightness collection, data processing, and data communication.

The device adopts GPRS communication mode, which can report the collected brightness data to the server directly.

## II: ELECTRICAL SPECIFICATION:

Item		Rating
Working Voltage		AC 220V ± 20%
Working Frequency		50Hz
Static Power		<10W
Range of light acquisition (when used as luminance meter)		0-5000cd/m <sup>2</sup>
Measurement Error		1%
Insulation	L/N-PE	1.75KV
	L/N-DIM	3.5KV
Power Surge (L-N L-PE N-PE)		±4KV
Static Electricity		±8KV
Working Temperature		-25°C ~ +60°C
Max. Operating Temperature		-40°C ~ +70°C
Storage and Transport Tempt.		-45°C ~ +70°C
Storage & working humidity range		≤85%

### III: Key Functions

#### 1. Brightness Collection Function

Using industrial high-precision photoelectric sensor, complete set of lens, filter, aperture and other devices, to collect the environment reflected light, through the internal high-speed data calculation unit, according to the algorithm for data conversion, using a unique fault-tolerant mechanism to ensure smooth and effective data, to ensure accurate and effective acquisition of optical brightness.

#### 2. Communication Function

Using GPRS channel for data transmission, data interaction and parameter configuration operations can be carried out with the server.

It can be set as Active Reporting or Polling communication type.

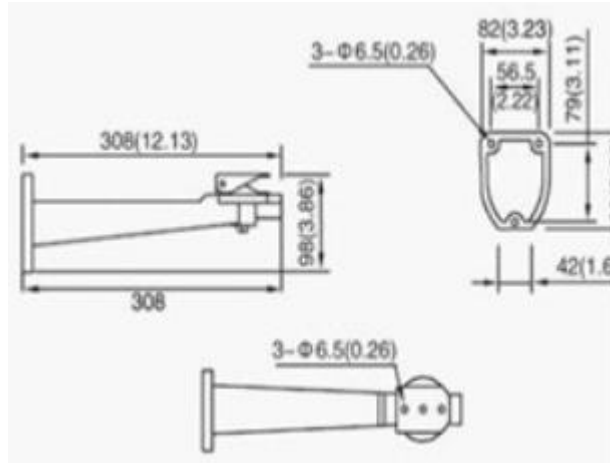
### IV: DEMENSIONS & INSTALLING SIZES

#### 1. Dimensions



#### 2. Standard Mounting Bracket diagram

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## 2. Multi-function mounting bracket diagram optional

