

# HY-SLV2E Forward Scattering Visibility Sensor

## Introduction

HY-SLV2E is a low cost visibility sensor working based on forward scattering principle developed by Hongyuv. Main application is for traffic purposes. Anodized aluminum alloy shell make it will never rust, applicable to drilling platforms, ships, highways and other transport sector. Using forward-scattering technique it measures the amount of particles in the air that limit the visibility. It emits pulses of infrared light and measures the intensity of the forward-scattered light of the suspended particles in the atmosphere, using suitable algorithms to convert the measurements to meteorological visibility values.

## Application

Expressway safety early alarm  
Aviation, marine, and road condition assessments  
Air quality management  
Intelligent Transportation Systems (ITS)  
Climate Research  
Environmental Monitoring

## Site photo



## Specification

Visibility: 10 ~ 6000 meters Resolution: 1 meter

Accuracy:  $\pm 20\%$

Serial Output: RS232 or RS485

Formats: ASCII active output, MODBUS-RTU, SDI-12

Baud rate: 1200 ~ 115200 bps

Material: Aluminium with anodized surface  
Stainless steel is optional with extra cost.

Power consumption:

Host: 170mA@12VDC

Heating module: 360mA@12VDC

Operating Temperature:  $-40 \sim +70^{\circ}\text{C}$

Protection Class: IP65

Dimensions: 280x180x90 mm

Weight: 2.6kg

Shipping Weight: 4 kg



Hongyuv Technology Co., Ltd.

Xinye Road 4th, Pidu Zone, Chengdu City, Sichuan Province, China

TEL / Whatsapp: +86 18681878709 Skype: stefan@hongyuv.com

Email: stefan@hongyuv.com

Wechat: wswgenius

Website: www.hongyuv.com/en