HONG YUV



HY-TWSE Series

Integrated Weather Station

»Product Introduction

The HY-TWSE series of integrated weather stations is specifically designed for multi-point deployment along expressways and national and provincial highways. These stations integrate various road traffic meteorological observation parameters—including visibility, road surface conditions, road surface temperature, and conventional meteorological elements—making them a comprehensive solution for traffic meteorological monitoring. Featuring a compact size, light weight, low power consumption, and ease of installation and maintenance, these stations provide road traffic authorities with meteorological data on road traffic conditions to assist traffic management departments in making informed decisions.

The lens features a patented anti-webbing design (Patent No.: ZL 2025 1 0768826.0) that prevents insects such as spiders from spinning webs in the optical detection area, which could otherwise affect data accuracy, thereby ensuring maintenance-free operation.

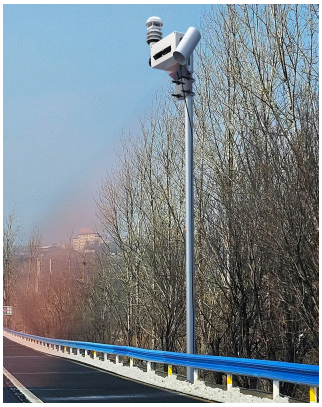
»Technical Indicators

Parameter Configuration	HY-TWSE-A	HY-TWSE-B	HY-TWSE-C	HY-TWSE-D
Visibility: 10–6000 m	●	●	/	●
Road Conditions: Dry, Puddles, Icy, Snow-Covered	●	/	●	●
Road Temperature: -40–+80 ℃	●	/	●	●
Wind Speed: 0–60 m/s	/	●	●	●
Wind Direction: 0–359°	/	●	●	●
Environment Temperature: -50 ℃–+80 ℃	/	●	●	●
Environment Humidity: 0–100 %RH	/	●	●	●
Operating Range: -40 ℃–+80 ℃ / 0–100 %RH	●	●	●	●
Pressure: 300–1100 hPa	/	●	●	●
PM2.5/PM10: 0–1000 μg/m³ (Optional)	/	○	○	○
Radiation: 0–2000 W/m² (Optional)	/	○	○	○
Noise: 10–110 dB (Optional)	/	○	○	○
Illuminance: 0–200000 lux (Optional)	/	○	○	○
Rainfall: 0–400 mm (Optional)	/	○	○	●
Rainfall Intensity Levels: Light Rain, Moderate Rain, Heavy Rain, Torrential Rain, Very Heavy Rain, Extreme Torrential Rain	/	●	●	●
Snowfall Levels: Light Snow, Moderate Snow, Heavy Snow	/	○	○	○
4G Communications (Optional)	○	○	○	○
Bluetooth Communication (Optional)	○	○	○	○
Camera (Optional)	○	○	○	○

Note: ● Standard Configuration; ○ Optional; / None. The actual product may differ slightly from the images in terms of appearance and features; technical specifications can be customized.

»Applications

- Along the Highway
- Along the National Highway
- On the Deck of River Bridges
- Along Main Urban Thoroughfares



»Key Features

- Designed for multi-point deployment along expressways and national and provincial highways
- Integrates visibility, road surface conditions, road surface temperature, and conventional meteorological elements
- Compact size, light weight, low power consumption, easy installation and maintenance
- Provides road traffic authorities with data to assist traffic management departments in making informed decisions
- Patented anti-webbing lens design prevents insects from affecting data accuracy; maintenance-free operation



»Product Showcase

