

# Holographic Perception All-in-One Device

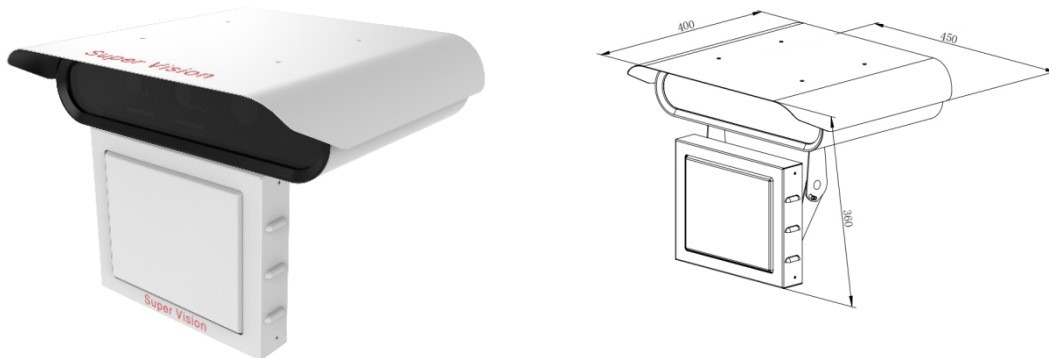
## SV-ETL-E3A-EX

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### Product Overview

The Holographic Perception All-in-One Device is an intelligent transportation product that deeply integrates multi-camera high-definition video perception and wide-area microwave detection; features all-weather all-day operation, long detection distance, and high resolution; widely used in highways, urban intersections and road sections; integrates motor vehicle, non-motor vehicle, and pedestrian detection and recognition, and also has traffic violation capture functions such as traffic statistics, red light running, lane pressing, and retrograde driving, providing real-time and accurate data for road holographic perception and vehicle-road-cloud integration.

### Product Appearance



### Functional Features

- 1x1" 9MP Global Exposure CMOS + 2x1/1.8" 8MP Low-light CMOS;
- Image and video delay of dual 8MP cameras is no more than 90ms;
- Supports PTP time synchronization, enabling accurate time synchronization;
- Supports multi-stream output, H.265/H.264 high- and low-resolution combination, balancing remote preview and HD storage;

## SUPER VISION

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- License plate recognition supported;
- Supports electronic police function, can capture various violations such as running red lights, line pressing, retrograde driving, and not driving in the correct lane,
- Compliant with GA/T496-2014 industry standard;
- Supports display of motor vehicle 2D coordinates, speed and other functions;
- Combination of long and short focus, multi-camera fusion analysis, balancing field of view and image quality, improving video image effects;
- Wide-area microwave detection technology, adopts high-performance millimeter wave radar module, stable and reliable detection performance,
- Detection distance up to 250m, maximum coverage of 8 lanes;
- High-precision measurement, speed measurement accuracy  $\pm 0.15\text{km/h}$ , angle measurement accuracy  $\pm 0.2^\circ$  (narrow beam) /  $\pm 0.6^\circ$  (wide beam);
- Real-time data analysis and processing, processing cycle 100ms;
- Supports remote device algorithm and software upgrade, parameter configuration;
- Integrated industrial-grade design, IP67 ingress protection rating.

## Technical Parameters

| Parameter Name             | Parameter Value                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Camera Parameters</b>   |                                                                                                                                                                                                       |
| Vehicle Capture Camera     | 9MP, 1" Global Exposure CMOS *1                                                                                                                                                                       |
| Vehicle Detection Camera   | 8MP, 1/1.8" Starlight CMOS *2                                                                                                                                                                         |
| Video Compression Standard | H.264, H.265 video encoding, supports dual streams;                                                                                                                                                   |
| Video Bitrate              | 256Kbps~16Mbps                                                                                                                                                                                        |
| Video Frame Rate           | 1~25fps                                                                                                                                                                                               |
| Lens Mount                 | CS/C                                                                                                                                                                                                  |
| Image Output               | Main Stream: 4096*2160 (capture camera), 3840*2160 (detection camera) @25fps (configurable), Sub Stream: 1920*1080@25fps (configurable)                                                               |
| <b>Lens Parameters</b>     |                                                                                                                                                                                                       |
| Focal Length               | 8/12/16/20/25/35/50mm                                                                                                                                                                                 |
| Resolution                 | Detection Camera: 8 mega pixels; Vehicle Capture Camera: 9 mega pixels                                                                                                                                |
| Adjustment Method          | Manual Adjustment                                                                                                                                                                                     |
| <b>Radar Parameters</b>    |                                                                                                                                                                                                       |
| Antenna Beam Width         | Horizontal FOV: $-14.5^\circ \sim +14.5^\circ$ @narrow beam, $-60^\circ \sim +60^\circ$ @wide beam<br>Pitch FOV: $-4.5^\circ \sim +4.5^\circ$ @narrow beam, $-12.6^\circ \sim +12.6^\circ$ @wide beam |
| Detection Distance         | 30~250m                                                                                                                                                                                               |
| Speed Measurement Range    | -300km/h~+300km/h                                                                                                                                                                                     |
| Speed Measurement Accuracy | $\pm 0.15\text{km/h}$                                                                                                                                                                                 |
| Angle Measurement Accuracy | $\pm 0.2^\circ$ @narrow beam / $\pm 0.6^\circ$ @wide beam                                                                                                                                             |
| Ranging Accuracy           | $\pm 0.4\text{m}$ @narrow beam / $\pm 0.15\text{m}$ @wide beam                                                                                                                                        |

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| Basic Parameters          |                         |
|---------------------------|-------------------------|
| Power Interface           | DC5521                  |
| Network Interface         | RJ45*2                  |
| Fan                       | 1PCS                    |
| Switch                    | 100M/1000M Auto-sensing |
| Voltage                   | DC12V±5%                |
| Power Consumption         | <40W;                   |
| Weight                    | ≈12.5KG                 |
| Dimensions                | ≈500*450*360 (mm)       |
| Operating Temperature     | -30°C-70°C              |
| Ingress Protection Rating | IP67                    |

## Application Scenarios

Intelligent Transportation: Holographic Intersection, Smart Road Network, Smart Highway, Vehicle-Road-Cloud Integration.



## Accessories

When installing on the cross arm of a pole, it is recommended to use a hoop form. The specific specifications are divided into the following types (size determined by cross arm specification)





