

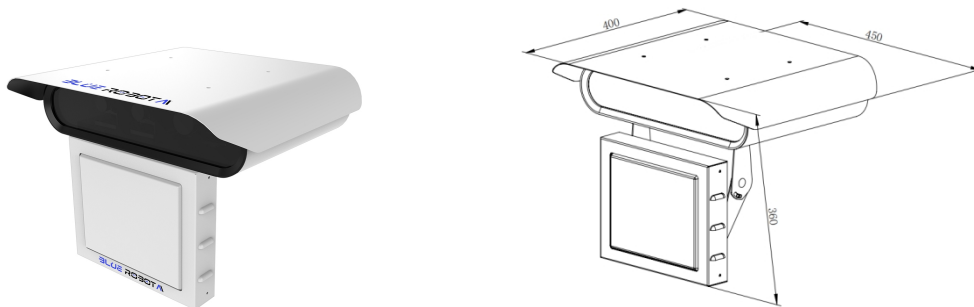
Holographic Perception All-in-One Device SV-ETL-E3A-EX

Making Cities Better

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;

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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
Camera Parameters	
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)
Lens Parameters	
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
Radar Parameters	
Antenna Beam Width	Horizontal FOV: $-14.5^\circ \sim +14.5^\circ$ @narrow beam, $-60^\circ \sim +60^\circ$ @wide beam 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	≈450*400*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)

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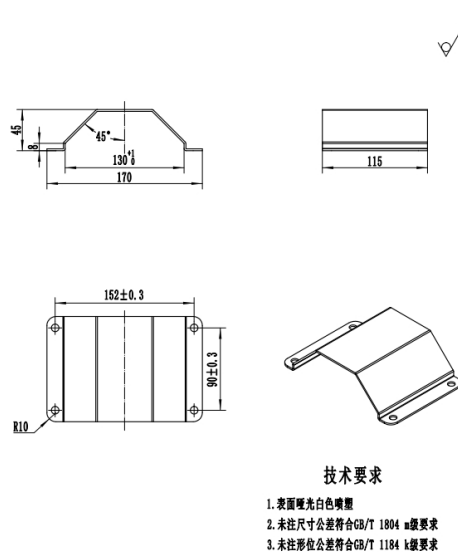
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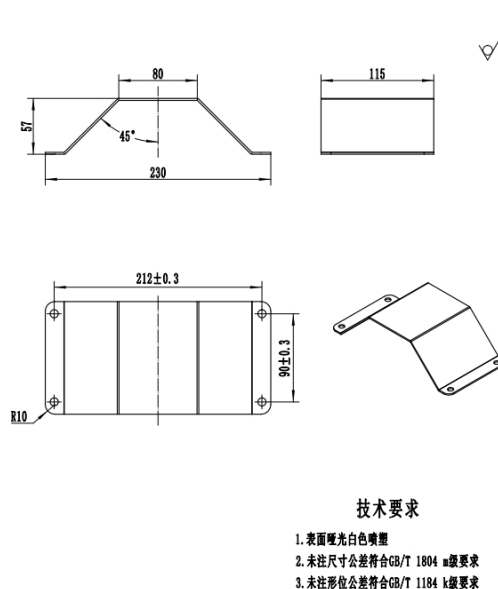
【Model】 AITS-SD-CLP-100133

Compatible Cross Arm Specification: Octagonal cross bar opposite side 100mm~133mm



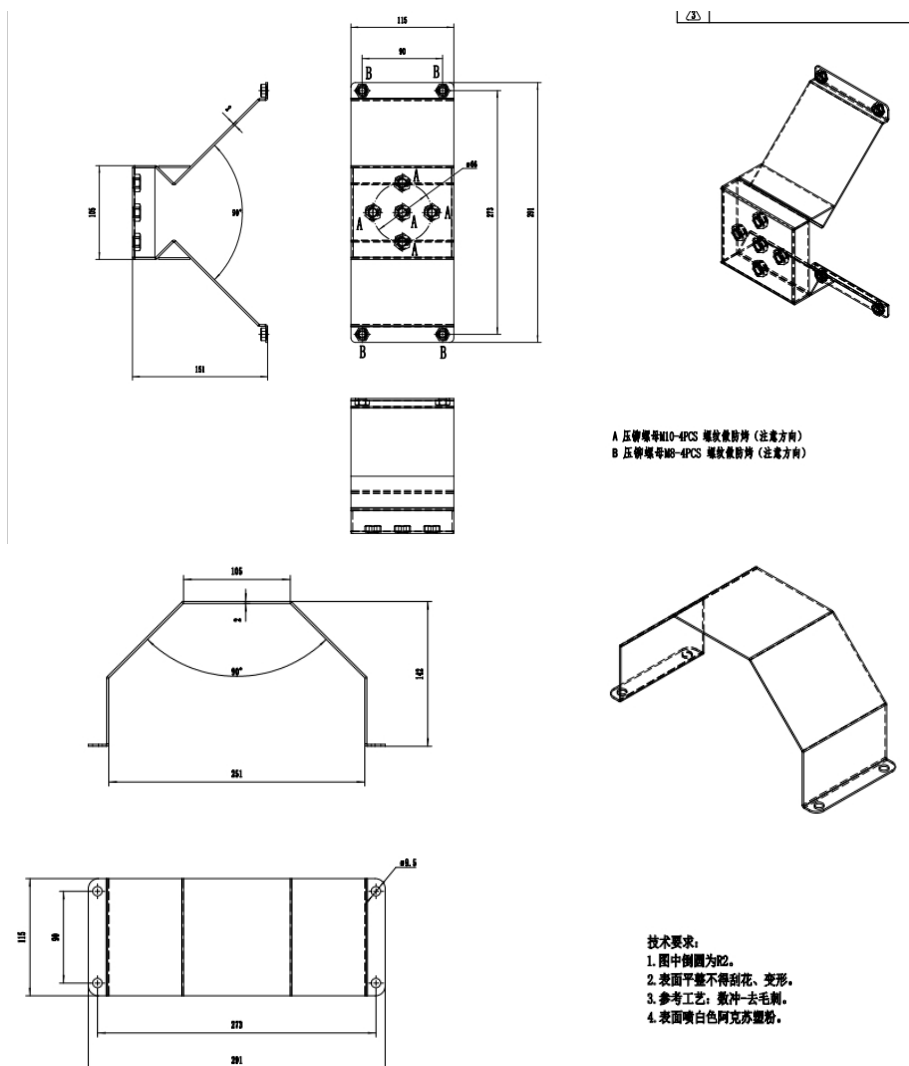
【Model】 AITS-SD-CLP-133184

Compatible Cross Arm Specification: Octagonal cross bar opposite side 133mm~184mm



【Model】 AITS-SD-CLP-230250

Compatible Cross Arm Specification: Octagonal cross bar opposite side 230mm~250mm



技术要求:

1. 图中倒圆为R2。
2. 表面平整不得刮花、变形。
3. 参考工艺: 数冲—去毛刺。
4. 表面喷白色阿克苏塑粉。

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