

DS-2TD816B-160ZC4F/W**Thermal & Optical Bi-spectrum Network Stable PTZ**

Hikvision DS-2TD816B-160ZC4F/W Thermal & Optical Bi-spectrum Network Stable PTZ equipped with SWIR technology which owns powerful haze cutting ability, can realize extended super long range monitoring under all environments. It is processed with high-strength aluminum alloy and stainless steel with particular sealing technology. The product is applied to large area perimeter protection scenes, such as airport, railway, oilfield etc.

This item is available for customization, HIKVISION team has the right for the final explanation of the technical spec.



▪ Specification

Thermal Module	
Image Sensor	Indium Gallium Arsenide Uncooled Focal Plane Arrays
Resolution	640 × 512
Pixel Interval	5 μm
Response Waveband	0.4 μm to 1.7 μm
Focal Length	7.1 to 200 mm
Focus Mode	Semi-auto & Manual
Frame Rate	50 HZ
Aperture	F1.7 to F4.7
HFOV	25.4° to 0.92°
Min. Focusing Distance	1-5 m adjustable
Optical Module	
Image Sensor	1/1.8" Progressive Scan CMOS
Resolution	2688 × 1520, 4 MP
Min. Illumination	Color: 0.005 Lux @ (F1.5, AGC ON), B/W: 0.0005 Lux @ (F1.5, AGC ON)
HFOV	61.9° to 1.86°
Focal Length	6.5 to 240 mm, 37x
Aperture (Range)	F1.5 to F4.8
Focus Mode	Auto/Semi-auto/Manual
Shutter Speed	1/3s to 1/30,000 s
Digital Zoom	Up to ×16
Image Stabilization	EIS
Defog/De-icing	Support
PTZ	
Movement Range	Pan: 360° Continuous Rotate; Tilt: From -45° to + 45° (auto flip)
Pan Speed	Configurable, From 0.01°/s to 30°/s
Tilt Speed	Configurable, From 0.01°/s to 15°/s
Proportional Zoom	Yes
Presets	255 in total.
Presets Accuracy	±0.1。
Patrol Scan	2; Up to 64 Presets Per Patrol
Pattern Scan	1 Linear Scan
Video	
Main Stream	Optical channel 50 Hz: 25 fps (2688×1520, 1920×1080, 1280×960, 1280×720) 60 Hz: 30 fps (2688×1520, 1920×1080, 1280×960, 1280×720)
Video Compression	H.265/ H.264
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, Bonjour
Interface	
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-422 interface

General

Power Supply	30 VDC
Power Consumption	≤100W
Work Temperature	From -40° C to 60° C
Storage Temperature	From -40°C to 65°C
Wiper	Yes
Protection Level	IP66 Standard
Dimension	285mm ×482mm ×293mm
Weight	≤15 kg (33.1 lbs)

DRI Range Table

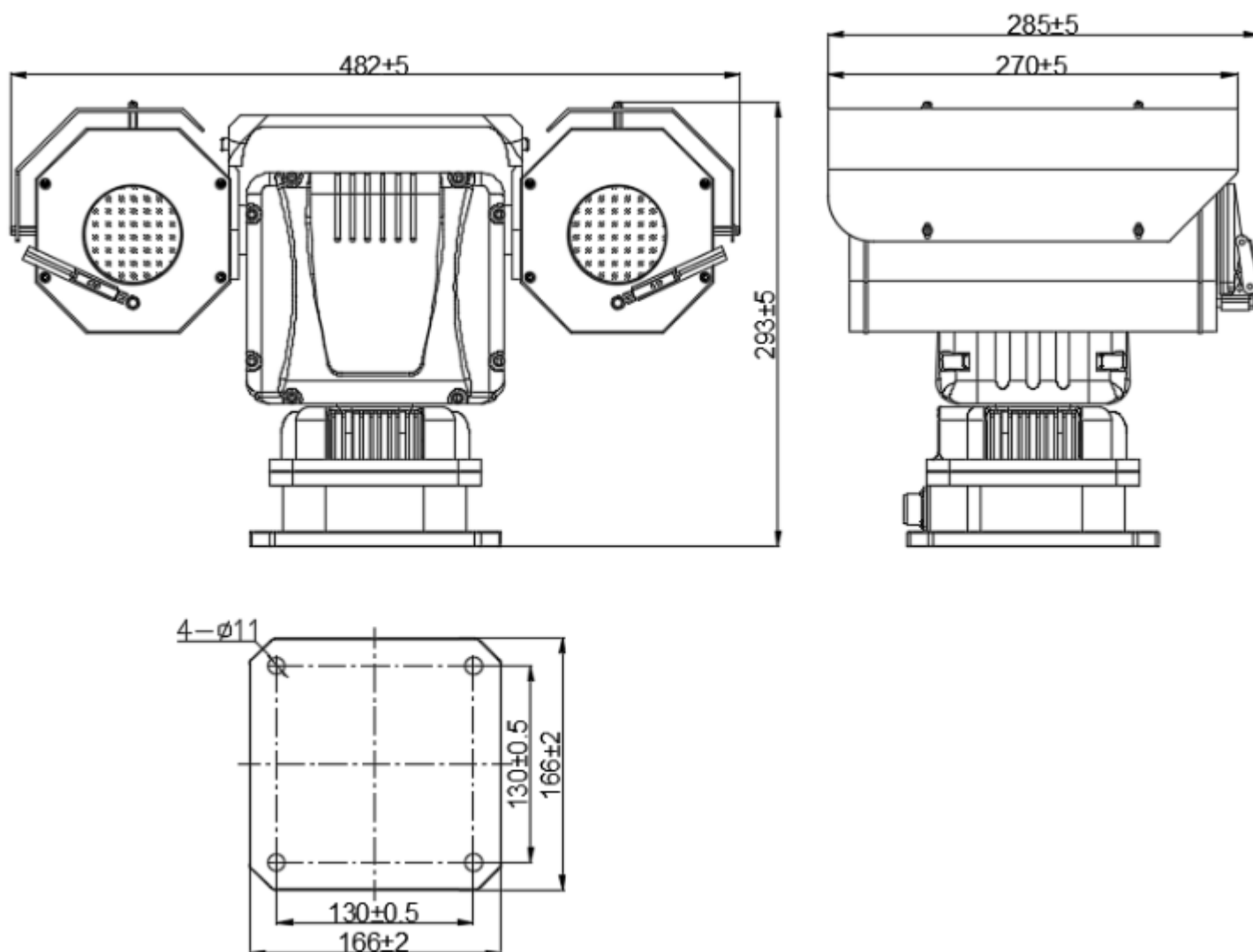
* The table distance is under visibility >20km, relative humidity $\leq 60\%$ and temperature difference < 6K environment. The performance may vary according to different environment.

Vehicles Detection Range	Human Detection Range	Vehicle Recognition Range	Human Recognition Range
≥ 3000 m	≥ 2000 m	≥ 2000 m	≥ 1000 m

Available Model

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Dimension



Unit: mm

COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.

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