

300-meter Perimeter Radar-Camera System RVS441



Features

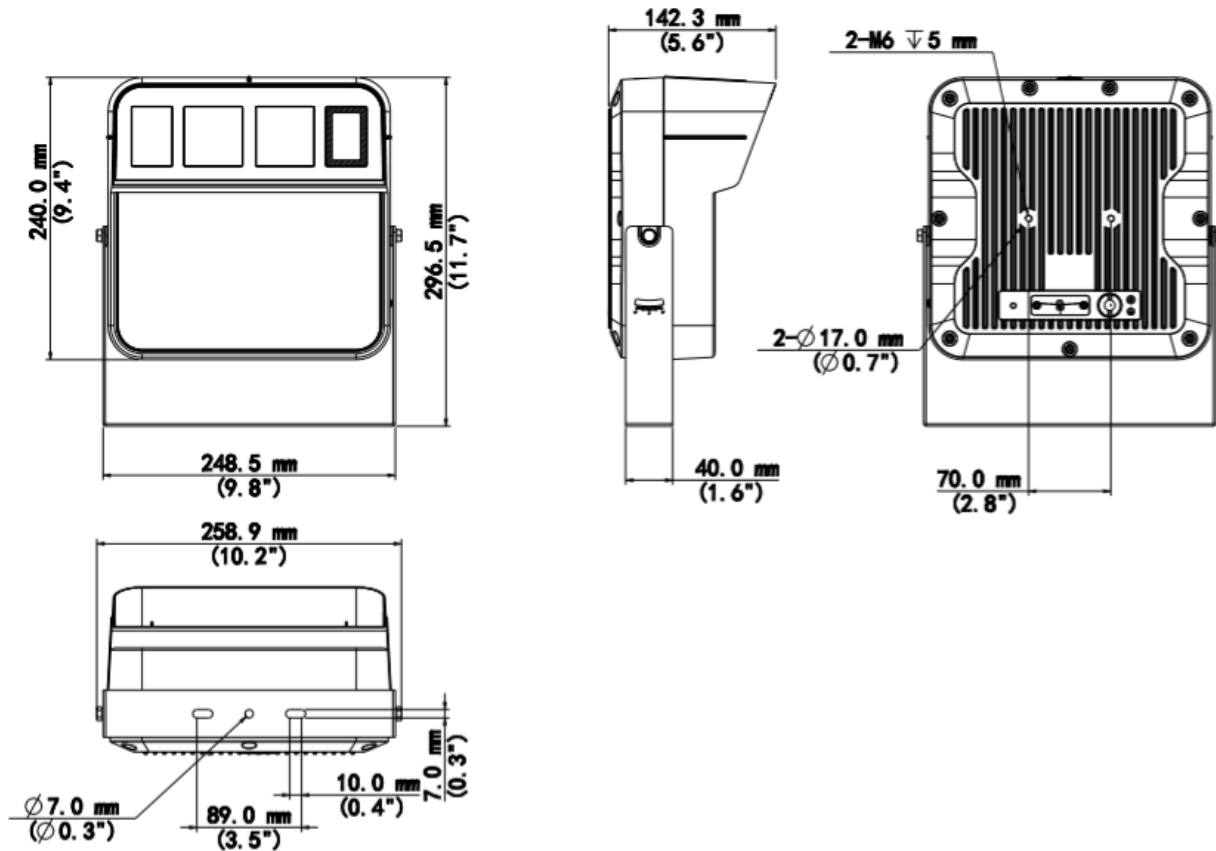
- 80GHz high-frequency band millimeter-wave radar enables high-precision and high-resolution detection.
- Supports dual-scene coverage with long and short focal lengths to adapt to diverse application scenarios.
- Incorporates starlight-level sensors for enhanced nighttime performance.
- Facilitates radar-video data fusion to boost target detection and recognition capabilities.
- Supports simultaneous detection of 32 targets.
- Supports detection of motor vehicles, non-motor vehicles, and pedestrians.
- Supports accurate recognition of various pedestrian actions, including walking, crawling, crouching, running, and wall climbing.
- Supports simultaneous monitoring of 8 detection zones.
- Maximum 300m detection range.
- Supports automatic tracking of intruders.
- Supports event detection including intrusion detection and cross line detection.
- Applicable to diverse environments including campuses, airports, railways, power facilities, and other operational scenarios.

Specifications

Channel	channel 1	channel 2
Camera		
Max Resolution	4 MP	
Sensor	1/1.8" CMOS	
Basic Parameters		
Min. Illumination	0.0003 lux (1.0, AGC ON, color), 0 lux (warm light on)	0.0005 lux (F1.6, AGC ON, color) , 0.0003lux (F1.6, AGC ON, black/white)
Shutter Range	1 ~ 1/100000s	
Day/Night	Color, all day	Day : Color, Night : IR
Lens		
Focal Length	4.0 mm	8 to 32 mm
Optical Zoom	N/A	4X
Iris	F1.0	F1.6
Field of View (H)	51.2°	8.7° ~ 24.5°
Field of View (V)	93.9°	15.4° ~ 44.1°
Illuminator		
Built-in Illuminator Type	2 near warm lights + 2 mid-IR lights + 8 far-IR lights	
Light Beads	12	
Built-in Illumination Range	Warm light : 40m	IR light : 200m
Key Functional Parameters		
Radar-video Fusion	Support	
Max. Detection Targets	32	
Max. Detection Areas	8	
Detection Target Type	Pedestrian, motor vehicle, non-motor vehicle	
Pedestrian Detection Capability	Accurate recognition of various actions, including walking, crawling, crouching, running, and wall climbing	
Detection Direction	Supports incoming, outgoing, lateral motion detection	
Detection Distance Range	10 ~ 300 m	
Lateral Detection Range	20 ~ 200 m	
Radar		
Radar Frequency Band	80GHz	
Modulated Waveform	FMCW	
Detection Frequency	Up to 16 times per second	
Distance Resolution	1.5m	
Speed Resolution	0.1m/s	
Speed Measurement Range	0.03-30m/s	
Azimuth Angle Precision	±1°	
Distance Precision	±0.75m	
Speed Precision	±0.2m/s	
Detection Angle	Horizontal Angle ±8°	

	Elevation Angle ± 3
Video	
Video Compression	H.265, H.264, MJPEG
Video Resolution	Main stream: 2688×1520, 1080P, 720P, D1, 2CIF, CIF Sub stream: 1080P, 720P, D1, 2CIF, CIF Third stream: D1, 2CIF, CIF
Video Frame Rate	2688×1520@30 fps
Video Bit Rate	128-16384Kbps
Video OSD	Multiple types of contents, such as date and time, with custom font color
Image	
Image Resolution	2688×1520
Image Encoding Format	JPEG
Image Settings	Exposure mode, shutter time, gain, exposure compensation, day/night mode, etc.
Digital Noise Reduction	2DNR/3DNR
Event	
Event Type	Intrusion detection, cross line detection
Storage	
Edge Storage	GB eMMC, supports expansion to 128 GB TF card
Network	
Protocols	SSH; RTP; RTCP; IPv4; ARP; TCP; UDP; DHCP; RTSP; DNS; DDNS; NTP; FTP; UPnP; HTTP; HTTPS; 802.1x; SNMP; LAPI
Compatible Integration	ONVIF
Interface	
Network Interface	1 x 10M/100M/1000M Ethernet interface
Serial Port	1 x RS 485
Alarm Input	2
Alarm Output	2
Reset Button	Support
General	
Power Supply	DC 24V $\pm 25\%$
Power Consumption	$\leq 30W$
Dimensions	248.5mm (W) ×142.3mm (D) ×240.0mm (H)
Weight	2.86kg (with bracket)
Lightning and Surge Protection	Support
Operating Temperature	- 40°C to 70°C
Operating Humidity	5% to 95% RH (non-condensing)
Ingress Protection	IP67
Spirit Level	Support
Compliance	
NDAA Compliant	Support

Dimensions



Accessories

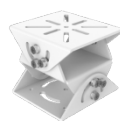
TR-UP06-IN

Universal Pole Mounting Bracket



TR-UV06-A-IN

3D Adjustable Mounting Bracket



Unlimited New View

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