

Deimos Ultra Thermal Camera

Thermal Imaging Bullet Camera

Product Name: Deimos-ULTRA-Thermal



KEY FEATURES

- VOx uncooled focal plane detector with 400×300 resolution
- NETD ≤ 40mK
- 8/15/25/35/50mm fixed thermal lens options
- Support human/vehicle detection
- Smart events: intrusion, single line crossing, double line crossing, loitering, wrong-way, people counting, enter area, leave area
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature measurement range: -20°C to 150°C (-4°F to 302°F)
- Support 12VDC/24VAC/PoE power supply
- NDAA Compliance, IP66

ACCESSORIES

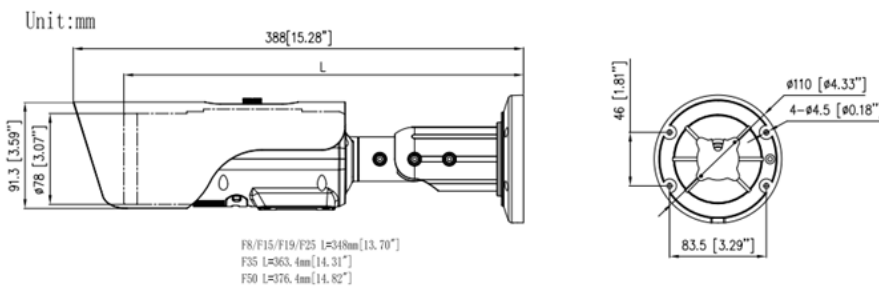


0070-11813
Back Box



0070-11852
Pole Mount

DIMENSIONS (MM)



Deimos ULTRA Thermal Camera

400x300 Thermal Sensor



Thermal Camera					
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Resolution	Sensor is 400×300. Image can be scaled up to 704×576				
Pixel Pitch	17μm				
NETD	≤ 40mK				
Spectral Range	8 to 14μm				
Image Setting	Brightness, Sharpness, Contrast, Mirror, FFC control, 2D/3D DNR				
Pseudo-color Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes				
Thermal Lens					
Focus Control	Fixed lens, Manual focus				
Focal Length	8mm	15mm	25mm	35mm	50mm
Aperture	F1.0	F1.0	F1.0	F1.0	F1.0
Angle of View	H: 46°, V: 35.3°	H: 25.5°, V: 19.2°	H: 15.4°, V: 11.6°	H: 11°, V: 9°	H: 7.7°, V: 5.8°
Detection Distance (Humans: 1.8×0.5m)	235 m (771.7 ft)	441 m (1,446.9 ft)	734 m (2,408.1 ft)	1,028 m (3,373 ft)	1,469m (4,8120 ft)
Detection Distance (Vehicles: 4×1.4m)	722 m (2,368.8 ft)	1,353 m (4,439 ft)	2,255 m (7,398 ft)	3,157m (10,358 ft)	4,510m (14,797 ft)
Recognition Distance (Humans: 1.8×0.5m)	59 m (193.6 ft)	110 m (360.9 ft)	184 m (603.7 ft)	257 m (843.2 ft)	367 m (1,204.1 ft)
Recognition Distance (Vehicles: 4×1.4m)	180 m (590.6 ft)	338 m (1108.9 ft)	564 m (1850.4 ft)	789 m (2,588.6 ft)	1,127 m (3698 ft)
Identification Distance (Humans: 1.8×0.5m)	29 m (95.1 ft)	55 m (180.4 ft)	92 m (301.8 ft)	129 m (423.2 ft)	184 m (603.7 ft)
Identification Range (Vehicles: 4×1.4m)	90 m (295.3 ft)	169 m (554.5 ft)	282 m (925.2 ft)	395 m (1,295.9 ft)	564 m (1850.4 ft)
* The table is only for reference and the performance may vary according to different environment.					
* The optimal detection, recognition, and identification distances are calculated according to Johnson’s Criteria.					
Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.					
Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.					
Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.					
Detection Range Table					
Temperature Measurement (Object: 1 × 1m)	94 m (308.4 ft)	176 m (577.4 ft)	294 m (964.6 ft)	412 m (1,351.7 ft)	588 m (1,929.1 ft)
Temperature Measurement (Object: 0.2 × 0.2m)	19 m (62.3 ft)	35 m (114.8 ft)	59 m (193.6 ft)	82 m (269 ft)	118 m (387.1 ft)
Fire Detection (Object: 1 × 1m)	235 m (771 ft)	441 m (1,446.8 ft)	735 m (2,411.4 ft)	1,029 m (3,376 ft)	1,471 m (4,826 ft)
Fire Detection (Object: 0.2 × 0.2m)	47 m (154.2 ft)	88 m (288.7 ft)	147 m (482.3 ft)	206 m (675.9 ft)	294 m (964.6 ft)
Note: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.					



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Video and Audio	
Main Stream	704×576 @25/30fps
Sub Stream	CIF @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Main stream: 100Kbps to 6Mbps, Sub stream: 10Kbps to 1.5Mbps
Region of Interest	Off/On (8 Zone, Rectangle)
Smart Encode	Support
Audio Compression	G711: 64kbps, RAW_PCM: 128kbps
Smart Function	
Smart Alarm	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection alarm
Smart Detection	Support human/vehicle detection
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area (these functions support accurate detection of human/vehicles), People counting
Temperature Detection	
Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	±2℃ / ±2%
Response Time	≤ 30ms
Temperature Range	-20°C to 150°C (-4°F to 302°F)
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, DDNS, PPPOE, FT, SMTP, 802.1x, SNMP
Interoperability	ONVIF, CGI, SDK
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Web Language	English, Polish, Italian, Portuguese, Spanish, French, Czech, Hungarian
Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch Audio In, 1ch Audio Out
Alarm Interface	2ch Alarm In, 2ch Alarm Out

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SD Card Slot	Built-in, up to 128GB
General	
Power Supply	12VDC/24VAC/PoE
Power Consumption	Max 5W
Working Temperature	-40°C to 60°C (-40°F to 140°F)
Storage Conditions	0 to 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	φ110 × 388 mm (φ4.33 × 15.28 inch)
Net Weight	1.8 kg (3.97 lb) with 15mm lens
Ernitec Partnumbers	Lens Options
Model	Description
Deimos-Ultra-Thermal-8	Focal Length: 8mm
Deimos-Ultra-Thermal-15	Focal Length: 15mm
Deimos-Ultra-Thermal-25	Focal Length: 25mm
Deimos-Ultra-Thermal-35	Focal Length: 35mm
Deimos-Ultra-Thermal-50	Focal Length: 50mm