

PSD-Series

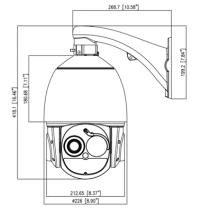
Thermal & Optical Bi-spectrum Network Speed Dome Camera

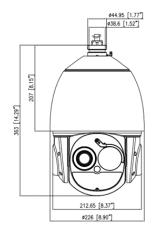


SATIR are pleased to announce the release of the PSD-Series, a range of thermal and optical Bi-spectrum Network cameras. In the Series, there is the PSD-400 and the PSD-640. The PSD-400 has an 384x288 IR resolution while the PSD-640 has 640x512 IR resolution.

The PSD-Series has a temperature measurement range of -20°C to 150°C and a number of measurement tools. They are able to detect humans, vehicles and fire. They have a range of smart event tools such as people counting, people leaving/entering an area.

The CK-Pro Series in a new range of thermal & optical Bi-spectrum Network Cameras that will be beneficial to the industry.





Key Features

- 384×288/640x512 IR resolution
- NETD ≤ 40Mk/35mK
- 25mm motorized focus thermal lens,
 40x optical zoom lens
- Detects Humans/Vehicles/Fire/Smoke
- Smart Events tools include people counting and smart motion detection
- 3 Temperature Measurement Rule Types
- IP66



PSD-Series Specifications

| Thermal Module | PSD-400 | PSD-640 |
|--|---|--|
| Image Sensor | Uncooled VOx Focal Plane Arrays | |
| Resolution | Sensor is 384×288. Image can be | Sensor is 640×512. Image can be scaled up to |
| | scaled up to 1280×720 | 1920×1080 |
| Pixel Pitch | 12um | |
| Spectral Range | 8~14um | |
| Thermal Sensitivity (NETD) | ≤ 40mK | |
| Image Setting | Brightness, Sharpness, Contrast, Mirror, FFC control, 2D/3D DNR | |
| Pseudo-colour Setting | White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes | |
| Thermal Lens | | |
| Focus Control | Motorized Focus | |
| Focal Length | 25mm | |
| Aperture | F1.0 | |
| Angle of View | H: 10.5°, V: 7.9° | H: 17°, V:14° |
| Detection Distance (Fire: 1x1m) | 1,042m (3,418.6ft) | |
| Detection Distance (Human:1.8x0.5m) | 1,040m (3,412.0ft) | |
| Detection Distance (Vehicle: 4x1.5m) | 3,194m (10,479.0ft) | |
| Recognition Distance (Human: 1.8x0.5m) | 260m (853.0ft) | |
| Recognition Distance (Vehicle: 4x1.5m) | 799m (2621.4ft) | |

Note: The detection ranges are calculated with Johnson's criteria and vary in different weather conditions. *Product performance is based on testing in a controlled environment. Your results may vary due to several external and environmental factors.

| Optical Module | | | | |
|-------------------|--|--------------------------------------|--|--|
| Image Sensor | 1/1.8" CMOS | | | |
| Max. Resolution | 2688 (H)×1520 (V), 4MP | | | |
| Shutter Speed | | 1/5 ~ 1/20,000s | | |
| Min. Illumination | Color: 0.001 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux (F1.5, AGC ON), 0 Lux with IR | | | |
| WDR | True WDR | | | |
| Focal Length | 6.27 to 251mm, 40x optical zoom | | | |
| Aperture | | F1.5 to F4.8 | | |
| Angle of View | H: 60.7 | H: 60.7° to 2.33°, V: 36.8° to 1.38° | | |
| Optical Zoom | 16x | | | |
| Focus Control | Auto/Manual/Semi-automatic | Auto/Manual | | |
| Mirror | Support | | | |
| Defog | Support | | | |
| Privacy Masking | Support | | | |

Please be aware specifications can vary from time to time



PSD-Series Specifications

| PTZ | PSD-400 | PSD-640 | |
|----------------------------|--|---|--|
| Pan/Tilt Range | Pan: 0° to 360° endless, Tilt: -10° to 90° | | |
| Pan/Tilt Speed | Pan: 0.01° to 300°/s, preset speed: 300°/s | | |
| Wiper | Tilt: 0.01° to 240°/s, preset speed: 240°/s | | |
| Preset Accuracy | Support | | |
| Presets | ≤ 0.2° | | |
| Scan | 400 | | |
| Patrol | 12 scans | | |
| Track | 12 patrols, up to 32 presets per patrol | | |
| 3D Positioning | 6 tracks | | |
| Speed Setup | Support | | |
| Power Off Memory | Auto/Manual (0-8) | | |
| Idle Motion | | Support | |
| Illuminator | | | |
| Illuminator Type | | IR | |
| Illumination Distance | Up | to 300m (984.25ft) | |
| Illumination Intensity And | Aut | comatically adjusted | |
| Angle Video and Audio | | | |
| Video dila Addio | Thermal: 1280×720, 704×576, | Thermal: 1920×1080, 1280×1024, 1280×720, | |
| | 384×288 @ 25fps Optical: | 640×512 @25fps Optical: 2688×1520, 2560×1440, | |
| Main Stream | 2688×1520, 2560×1440, | | |
| | 2304×1296, 1920×1080, | 2304×1296, 1920×1080, 1280×720 @25/30fps | |
| | 1280×720 @25/30fps | | |
| | Thermal: 704×576, 384×288, | Thermal: D1, VGA, 640×512, CIF @25/30fps | |
| Sub Stream | 352×240 @ 25fps | | |
| | Optical: D1, VGA @25/30fps | Optical: D1, VGA @25/30fps | |
| Bit Rate Control | | CBR/VBR | |
| | Thermal: Main stream: 100Kbps | Thermal: Main stream: 100Kbps to 12Mbps Sub stream: 100Kbps to 6Mbps | |
| | to 8Mbps Sub stream: 100Kbps to | Optical: Main stream: 100Kbps to 16Mbps, Sub | |
| Bit Rate | 6Mbps Optical: Main stream: | stream: 100Kbps to 6Mbps | |
| | 100Kbps to 16Mbps, Sub stream: | | |
| | 100Kbps to 6Mbps | | |
| Region of Interest | Off/C | On (8 Zone, Rectangle) | |
| Audio Compression | G711: 64 | kbps, RAW_PCM: 128kbps | |
| Smart Function | | | |
| Smart Alarm | | arm, IVS alarm, Temperature detection & alarm | |
| | Support human/vehicle detection, | Support human/vehicle detection, ship detection, | |
| Smart Detection | fire point detection, smoking | fire point detection, smoking detection and smoke | |
| | detection and smoke & fire | & fire detection | |
| | detection | Interesian Circle line constitut Devikle line constitut | |
| | Intrusion, Single line crossing, | Intrusion, Single line crossing, Double line crossing, | |
| Intelligent Analysis | Double line crossing, Loitering, | Loitering, Wrong-way, Enter area, Leave area (these 7 | |
| | Wrong-way, Enter area, Leave area and Smart motion detection | function support accurate detection of people/ | |
| | (these functions support accurate | vehicles) | |
| | detection of human/vehicles) | | |
| People Counting | Support | | |
| r copic counting | <u> </u> | Japport | |

Please be aware specifications can vary from time to time

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PSD-Series Specifications

| Temperature Detection | PSD-400 | PSD-640 |
|--------------------------------|--|--|
| 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°C/±2% | |
| Response Time | ≤ 30ms | |
| Temperature Range | -20°C to 150°C (-4°F to 302°F) | -20°C to 150°C (-4°F to 302°F) or 0°C to 550°C (32°F to 1022°F) |
| Network | | |
| Protocols | IPv4/IPv6, HTTP, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, DDNS, PPPoE, UPNP, ICMP, IGMP, FTP, NTP, SMTP, 802.1x, SNMP | IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x |
| Interoperability | ONVIF, CGI, SDK | |
| Max. User Access | 10 Users | |
| Web Viewer | | me, Firefox, Microsoft Edge |
| Web Language | English, Chinese, Polish, Italian, Por | tuguese, Spanish. Russian, 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 | 7ch Alarm In, 2ch Alarm Out | |
| RS485 | Support | |
| BNC Output | Support | |
| SD Card Slot | ВС | uilt-in, up to 256GB |
| General | 24VAC/26VDC/D=5++/002-24+) | |
| Power Supply Power Consumption | 24VAC/36VDC/PoE++ (802.3bt) | |
| <u>'</u> | Max 45 W | |
| 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 | ф226 × 362.8mm (ф8.9 × 14.28 inch) | |
| Net Weight | 6kg (13.2lb) | |

Please be aware specifications can vary from time to time