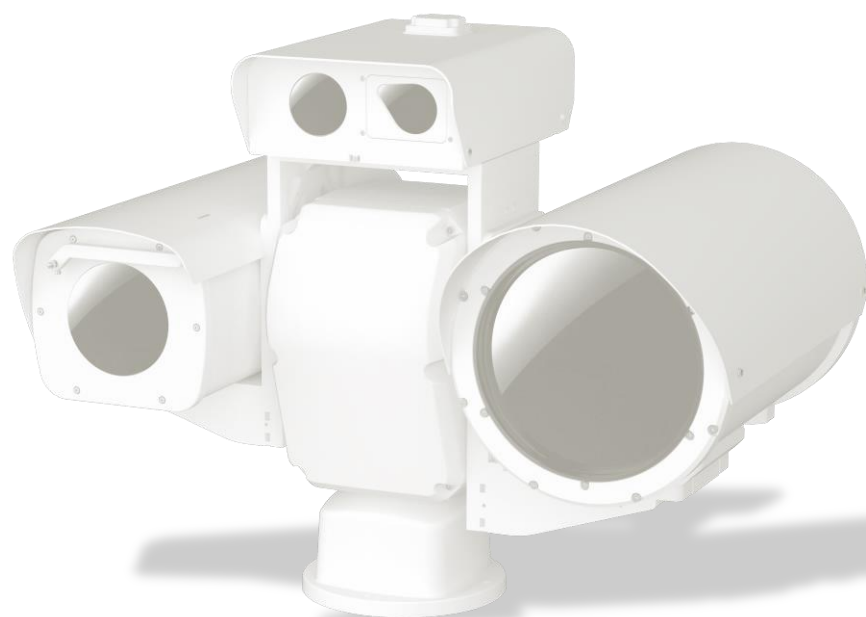


LR - PT 6S4LR / 6S2LR

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# Multi-Spectrum Long Range Camera PT 6S4LR & 6S2LR

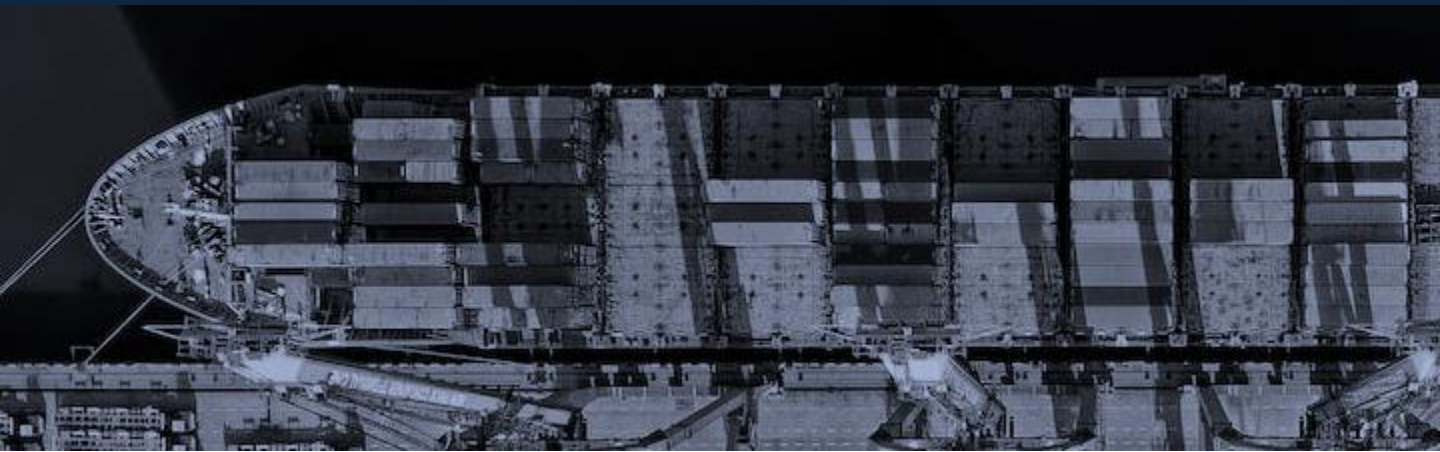
## Product Features

- The latest 12μm uncooled IR detector makes the images farther and clearer.
- Dual-Spectrum with thermal and visible light, easily extension Laser rangefinder and Laser illumination.
- 1280\*1024 HD thermal resolution with 35-350mm continuous zoom lens.
- Support intrusion, cross line detection etc VCA function.
- Integrated  $\pm 0.01^\circ$  high-precision Pan tilt, 120°/s high rotation speed, support a variety of scanning modes and target tracking.
- All-weather ingress design, IP67 ingress class, anti-wind, water proof, anti-corrosion, anti- salty.
- Support ONVIF standard protocol and SDK.

## SPECIFICATIONS PT6S4LR / PT6S2LR

|                                      |                        |                                                                                                                     |                       |
|--------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Thermal</b>                       | Sensor Type            | VOx uncooled FPA detector                                                                                           |                       |
|                                      | Spectral Range         | 8~14μm                                                                                                              |                       |
|                                      | NETD                   | ≤40mK(@25°C,F#1.0,25Hz)                                                                                             |                       |
|                                      | Max. Resolution        | 1280×1024                                                                                                           |                       |
|                                      | Pixel Pitch            | 12μm                                                                                                                |                       |
|                                      | Focal Length           | 35~350mm, 10x optical zoom                                                                                          |                       |
|                                      | Focus Mode             | Auto/Manual/One time auto focus                                                                                     |                       |
|                                      | FOV                    | 24.3°×18.8°~2.5°×2.0°                                                                                               |                       |
|                                      | F number               | F0.92~F1.5                                                                                                          |                       |
|                                      | Spatial Resolution     | 0.343~0.034mrad                                                                                                     |                       |
|                                      | Color Palette          | 20 modes selectable such as Blackhot /Whitehot /Rainbow,etc.                                                        |                       |
|                                      | Defocus correction     | Support to ensure image keep clear over the operating temperature range                                             |                       |
|                                      | Digital Zoom           | 8x                                                                                                                  |                       |
|                                      | Image Stabilization    | EIS                                                                                                                 |                       |
|                                      | ISP                    | Supports non-uniformity correction/brightness/contrast/digital filtering noise reduction/digital detail enhancement |                       |
| <b>Visible</b>                       | Image Sensor           | 1/1.8 inch 4MP CMOS                                                                                                 | 1/1.8 inch 2MP CMOS   |
|                                      | Max. Resolution        | 2688×1520                                                                                                           | 1920×1080             |
|                                      | Focal length           | 11.3~1000mm                                                                                                         | 15~1200mm             |
|                                      | Focus Mode             | Auto/Manual/One time auto focus                                                                                     |                       |
|                                      | FOV                    | 37.9°×21.9°~0.4°×0.2°                                                                                               | 29.1°×16.6°~0.4°×0.2° |
|                                      | WDR                    | Support                                                                                                             |                       |
|                                      | Day/Night              | Manual/Auto                                                                                                         |                       |
|                                      | Wiper                  | Support                                                                                                             |                       |
|                                      | Heater/Cooling         | Support heater, less than 5°C automatically open (can be manually controlled), support fan cooling                  |                       |
|                                      | Digital Zoom           | 4x                                                                                                                  |                       |
|                                      | Image Stabilization    | EIS                                                                                                                 |                       |
|                                      | Defog                  | Optical Defog                                                                                                       |                       |
| <b>Laser Rangefinder (Optional)</b>  | Wave Length            | 1535±5nm                                                                                                            |                       |
|                                      | Measurement Range      | 100m~20km                                                                                                           |                       |
| <b>Laser illumination (Optional)</b> | Compensation Distance  | 3000m, Visible light synchronous zoom                                                                               |                       |
| <b>PTZ</b>                           | Pan Range              | 360° continuous rotating                                                                                            |                       |
|                                      | Pan Speed              | 0.01°~120°/s                                                                                                        |                       |
|                                      | Tilt Range             | -90°~+90°                                                                                                           |                       |
|                                      | Tilt Speed             | 0.01°~60°/s                                                                                                         |                       |
|                                      | Preset                 | 1024                                                                                                                |                       |
|                                      | Long focus speed limit | Support automatic adjustment of the Pan-tilt speed according to the current focal length                            |                       |
|                                      | Scanning Mode          | Preset/Pattern Scan/Patrol Scan/Linear Scan/Panorama Scan                                                           |                       |
|                                      | Preset Accuracy        | ±0.01°                                                                                                              |                       |
|                                      | Adjustable Pan-tilt    | Pan-tilt adjustable, can flexibly adjust the visible, infrared, rangefinder optical axis                            |                       |

| SPECIFICATIONS PT6S4LR / PT6S2LR |                               |                                                                                                                                                         |                                                                                                                                     |
|----------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Internet                         | Internet Protocol             | TCP/IP,UDP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,R TCP, IGMP,SMTP, NTP, QoS.                                                                            |                                                                                                                                     |
|                                  | Integration                   | ONVIF/SDK/API/Series port communication                                                                                                                 |                                                                                                                                     |
|                                  | OSD                           | Support time, axis, zoom, channel info, location info OSD                                                                                               |                                                                                                                                     |
|                                  | Simultaneous live view        | Up to 20 channels                                                                                                                                       |                                                                                                                                     |
|                                  | User Management               | Up to 20 users, 2 levels: Administrator and User                                                                                                        |                                                                                                                                     |
|                                  | Browser                       | IE8+/Chrome/Firefox                                                                                                                                     |                                                                                                                                     |
| Video                            | Max. Resolution               | 2688×1520(Visible),<br>1280×1024 (Thermal)                                                                                                              | 1920×1080(Visible),<br>1280×1024 (Thermal)                                                                                          |
|                                  | Image Encoding Format         | JPEG                                                                                                                                                    |                                                                                                                                     |
|                                  | Audio Compression             | G.711A/G.711Mu/PCM/AAC/MPEG2-Layer2                                                                                                                     |                                                                                                                                     |
|                                  | Video Compression             | H.264/H.265/MJPEG                                                                                                                                       |                                                                                                                                     |
|                                  | Main Stream                   | Visible:<br>50Hz:25fps(2688×1520,1920×1080,1280×720)<br>60Hz:30fps(2688×1520,1920×1080,1280×720)<br>Thermal:<br>50Hz:25fps(1280×1024,1280×720,1024×768) | Visible:<br>50Hz:25fps(1920×1080,1280×720)<br>60Hz:30fps(1920×1080,1280×720)<br>Thermal:<br>50Hz:25fps(1280×1024,1280×720,1024×768) |
|                                  | Sub Stream                    | Visible:<br>50Hz:25fps(1920×1080,1280×720,704×576,352×288)<br>60Hz:30fps(1920×1080,1280×720,704×480,352×240)<br>Thermal:<br>50Hz:25fps(640×512,384×288) |                                                                                                                                     |
| VCA                              | Fire Detection                | Support                                                                                                                                                 |                                                                                                                                     |
|                                  | Strong light protection       | Support, Prevent high temperature burns to the detector                                                                                                 |                                                                                                                                     |
|                                  | Coaxial linkage amplification | Support                                                                                                                                                 |                                                                                                                                     |
|                                  | Abnormal Alarm                | Support alarm trigger of network disconnection, IP address conflict, full memory, memory error, illegal access and abnormal detection                   |                                                                                                                                     |
|                                  | VCA                           | Support smart video analysis such as line intrusion, cross-border, and region intrusion                                                                 |                                                                                                                                     |
|                                  | Alarm-linkage                 | Recording/Capture/Sending mail/PTZ linkage/Alarm output                                                                                                 |                                                                                                                                     |
| Interface                        | Power Supply                  | DC 48V±15%                                                                                                                                              |                                                                                                                                     |
|                                  | Communication Interface       | 1 RJ45 10M/100M Adaptive Network Port                                                                                                                   |                                                                                                                                     |
|                                  | Audio I/O                     | 1/1                                                                                                                                                     |                                                                                                                                     |
|                                  | Alarm I/O                     | 7/2                                                                                                                                                     |                                                                                                                                     |
|                                  | Storage                       | Support Micro SD card (Max. 256G)                                                                                                                       |                                                                                                                                     |
|                                  | Serious Port                  | 1-ch RS485, support Pelco-D                                                                                                                             |                                                                                                                                     |
| General                          | Operating Conditions          | -40℃~+70℃; <90%RH                                                                                                                                       |                                                                                                                                     |
|                                  | Ingress Class                 | IP67                                                                                                                                                    |                                                                                                                                     |
|                                  | Power Consumption             | Max.160W                                                                                                                                                |                                                                                                                                     |
|                                  | Dimensions                    | 620mm×854mm×525mm(W×H×L)                                                                                                                                |                                                                                                                                     |
|                                  | Weight                        | 80KG                                                                                                                                                    |                                                                                                                                     |
|                                  |                               |                                                                                                                                                         |                                                                                                                                     |



# Operating Distance

The recommended distance of detecting, recognizing and identifying for human (1.8×0.5m) and vehicles (1.4×4.0m) are as follows:

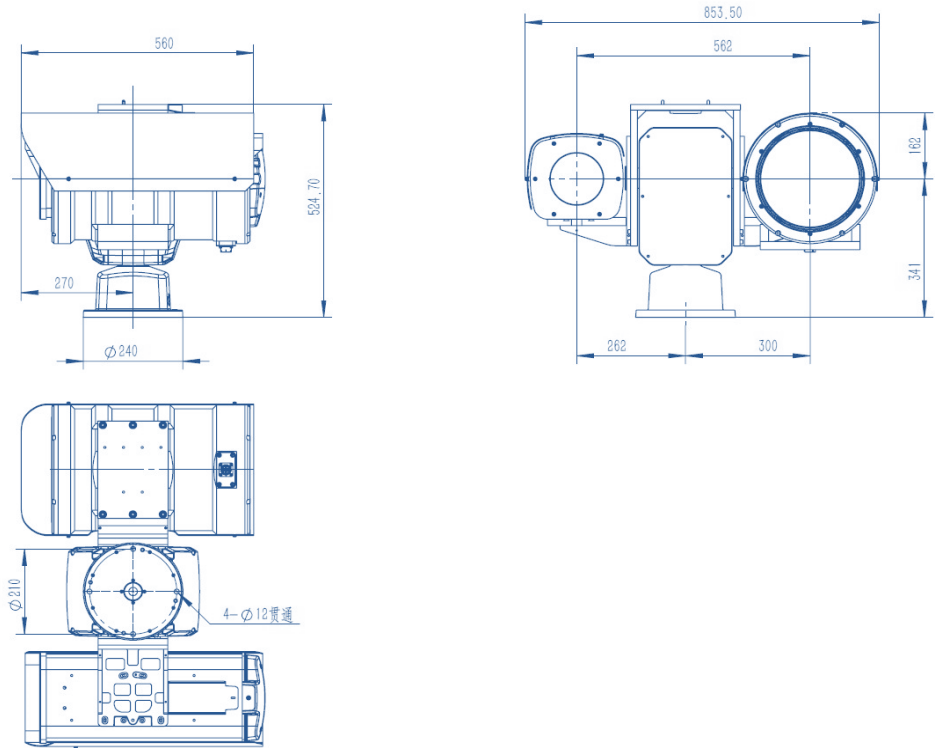
DD stands for Detecting Distance; RD stands for Recognizing Distance; ID stands for Identifying Distance.

| Lens  | DD<br>(Vehicle) | DD<br>(Human) | RD<br>(Vehicle) | RD<br>(Human) | ID<br>(Vehicle) | ID<br>(Human) |
|-------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| 350mm | 44.7km          | 14.6km        | 11.2km          | 3.6km         | 5.6km           | 1.8km         |

For vehicles (2.3m x 4.6m), people (0.5m x 1.7m) and UAV (0.2m x 0.3m) reflectivity 30%, visibility ≥ 23.5km maximum distance of laser ranging is as below:

| Max. | Vehicle | Human | UAV   |
|------|---------|-------|-------|
| 20km | 15km    | 6.7km | 3.7km |

Structure





# Packing

| Name                                                                                       | Qty |
|--------------------------------------------------------------------------------------------|-----|
| Pan-tilt                                                                                   | 1   |
| Power adapter                                                                              | 1   |
| Visible light protection cover                                                             | 1   |
| Visible light sun-shield                                                                   | 1   |
| Thermal light protection cover                                                             | 1   |
| Thermal light sun-shield                                                                   | 1   |
| H5 hexagonal wrench                                                                        | 1   |
| H6 hexagonal wrench                                                                        | 1   |
| Terminal Blocks                                                                            | 1   |
| Network cable waterproof cover                                                             | 1   |
| Hanging ring                                                                               | 2   |
| M6*25 screw (with flat gasket and spring gasket)                                           | 16  |
| M4*16 screw (with sealing ring)                                                            | 10  |
| M4*20 Anti-release screws (with flat gasket, spring gasket, sealing ring, elevated column) | 12  |
| M8*45 screw (with flat gasket, spring gasket, nut)                                         | 4   |

