

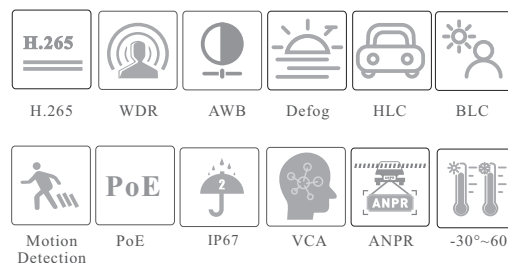
CAMERA

## TD-9423A3BH-B-LR

2MP HD License Plate Recognition  
Bullet Network Camera



- 2MP (1920 × 1080) @30fps
- Support H265+/H264+/H265/H264/MJPEG coding
- ICR auto switch, true day/night
- Motorized lens
- 3D DNR, HWDR, HLC, BLC and ROI coding
- Built-in micro SD card slot, up to 256GB
- DC12V/AC24V/PoE power supply
- Support three streams
- IP67
- Support mobile surveillance by smart phones with iOS and Android OS
- Support license plate detection and recognition
- Support NAT function
- Support dual-system backup



en.tvt.net.cn

For more information, please visit our website

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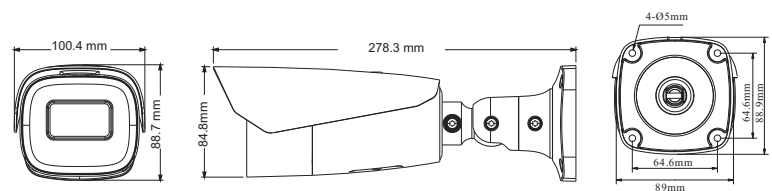
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## SPECIFICATIONS

| Model                      | TD-9423A3BH-B-LR                                                                                                                                                                                      |                                                          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Specifications             |                                                                                                                                                                                                       |                                                          |
| Camera                     |                                                                                                                                                                                                       |                                                          |
| Image Sensor               | 1 / 1.8" CMOS                                                                                                                                                                                         |                                                          |
| Image Size                 | 1920 × 1080                                                                                                                                                                                           |                                                          |
| Electronic Shutter         | Manual or auto; manual: 1 / 1 s ~ 1 / 100000s                                                                                                                                                         |                                                          |
| Iris Type                  | DC Iris                                                                                                                                                                                               |                                                          |
| Min. Illumination          | 0.001 lux@F1.6, AGC ON; 0 lux with IR                                                                                                                                                                 |                                                          |
| Lens                       | 2.8~12mm@F1.6, motorized                                                                                                                                                                              | 8~32mm@F1.6, motorized                                   |
| Field of View              | Horizontal: 100°~48.5°; Vertical: 54°~26.5°; Diagonal: 119°~55.8°                                                                                                                                     | Horizontal: 42°~16°; Vertical: 24°~9°; Diagonal: 49°~18° |
| Lens Mount                 | Integrated                                                                                                                                                                                            |                                                          |
| Recommended ANPR Distance  | 3~8m                                                                                                                                                                                                  | 16~48m                                                   |
| Wide Dynamic Range         | 120dB                                                                                                                                                                                                 |                                                          |
| BLC                        | Yes                                                                                                                                                                                                   |                                                          |
| HLC                        | Yes                                                                                                                                                                                                   |                                                          |
| Defog                      | Yes                                                                                                                                                                                                   |                                                          |
| Digital NR                 | 3D DNR                                                                                                                                                                                                |                                                          |
| S/N Ratio                  | ≥50dB                                                                                                                                                                                                 |                                                          |
| Angle Adjustment           | Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°                                                                                                                                                         |                                                          |
| Image                      |                                                                                                                                                                                                       |                                                          |
| Video Compression          | Main stream: H.265+ / H.265 / H.264+ / H.264<br>Sub stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG<br>Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG                                          |                                                          |
| H.264 Compression Standard | Baseline Profile/Main Profile/High Profile                                                                                                                                                            |                                                          |
| Resolution                 | 1080P(1920×1080), 720P(1280×720), D1, VGA(640×480), 640×360, 480×240, CIF                                                                                                                             |                                                          |
| Main Stream                | 1080P(60Hz: 1 ~ 30fps; 50Hz: 1 ~ 25fps)<br>HFR Mode: 1080P(60Hz: 1~60fps; 50Hz: 1~50fps)                                                                                                              |                                                          |
| Sub Stream                 | 720P/D1/VGA/640×360/480×240/CIF (60Hz: 1~30fps; 50Hz: 1~25fps)                                                                                                                                        |                                                          |
| Third Stream               | D1/CIF (60Hz: 1 ~ 30fps; 50Hz: 1 ~ 25fps)                                                                                                                                                             |                                                          |
| Bit Rate                   | 64 Kbps ~ 8 Mbps                                                                                                                                                                                      |                                                          |
| Bit Rate Type              | VBR / CBR                                                                                                                                                                                             |                                                          |
| Audio Compression          | G711A / U                                                                                                                                                                                             |                                                          |
| Image Settings             | ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, Vertically flip, Horizontally flip, NR, etc. adjustable through client software or web browser                                   |                                                          |
| ROI                        | Each ROI to be configured separately                                                                                                                                                                  |                                                          |
| Interfaces                 |                                                                                                                                                                                                       |                                                          |
| Network                    | RJ 45 10M/100M self-adaptive Ethernet port                                                                                                                                                            |                                                          |
| Video Output               | CVBS output (BNC× 1)                                                                                                                                                                                  |                                                          |
| Audio                      | 1CH audio input; 1CH audio output                                                                                                                                                                     |                                                          |
| Storage                    | Built-in micro SD card slot; up to 256GB                                                                                                                                                              |                                                          |
| Reset                      | Yes                                                                                                                                                                                                   |                                                          |
| Alarm                      | 1CH alarm input; 1CH alarm output                                                                                                                                                                     |                                                          |
| RS 485                     | Yes                                                                                                                                                                                                   |                                                          |
| Wiegand                    | Yes                                                                                                                                                                                                   |                                                          |
| Functions                  |                                                                                                                                                                                                       |                                                          |
| Remote Monitoring          | Web Browser/NVMS/NVR/mobile APP                                                                                                                                                                       |                                                          |
| Web Browser                | Chrome 105.0+/Edge 105.0+/Firefox 121.0+/Safari 14.0+                                                                                                                                                 |                                                          |
| Online Connection          | Support simultaneous monitoring for up to 10 users;<br>Support multi-stream real time transmission                                                                                                    |                                                          |
| Network Protocol           | UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTMP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, 802.1x, UPnP, HTTPS, NAT, QoS                                                                                  |                                                          |
| Interface Protocol         | ONVIF Profile S/G/M/T                                                                                                                                                                                 |                                                          |
| API&SDK                    | Yes                                                                                                                                                                                                   |                                                          |
| Storage                    | Network remote storage; micro SD card storage                                                                                                                                                         |                                                          |
| Smart Alarm                | Motion detection, sensor alarm, SD card error, SD card full, IP address conflict, cable disconnection, audio alarm, video exception                                                                   |                                                          |
| Security                   | Video encryption, firmware encryption, HTTPS encryption, configuration encryption, illegal login lock, IP address filtering, 802.1x authentication, basic and digest authentication for HTTP/RTSP/API |                                                          |
| General Function           | Watermark, video mask, heartbeat, ANR, cloud upgrade, disarming                                                                                                                                       |                                                          |

|                                       |                                                                                                                                                                                                                                                                                                                         |           |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PoE                                   | Yes , IEEE802.3af                                                                                                                                                                                                                                                                                                       |           |
| IR Distance                           | 50~70m                                                                                                                                                                                                                                                                                                                  | 70~100m   |
| Protection Grade                      | IP67                                                                                                                                                                                                                                                                                                                    |           |
| License Plate Detection               | Original image (2MP resolution) and license plate image                                                                                                                                                                                                                                                                 |           |
| Anti-Corrosion Protection             | NEMA 4X                                                                                                                                                                                                                                                                                                                 |           |
| Snapshot                              |                                                                                                                                                                                                                                                                                                                         |           |
| Vehicle Plate Database                | 10,000                                                                                                                                                                                                                                                                                                                  |           |
| License Plate Detection & Recognition | Capture of vehicles with license plates and vehicles without license plate, Support plate exposure, travel direction recognition, plate character fault tolerance, plate comparison, snapshot time display<br>Vehicle feature extraction: including vehicle color, plate color, vehicle type, vehicle brand/model, etc. |           |
| Capture Speed Range                   | 0~80km/h                                                                                                                                                                                                                                                                                                                | 0~120km/h |
| Entrance and Exit                     |                                                                                                                                                                                                                                                                                                                         |           |
| Barrier Gate Control Mode             | Camera or Platform control                                                                                                                                                                                                                                                                                              |           |
| Relay Output                          | 1-ch relay output, supporting opening/closing/suspending of a barrier gate                                                                                                                                                                                                                                              |           |
| Screen Display                        | Support connecting a screen through RS485 interface to display captured license plates                                                                                                                                                                                                                                  |           |
| Plate Capture                         |                                                                                                                                                                                                                                                                                                                         |           |
| Capture Rate                          | In the recommended installation and lighting condition, the vehicle capture rate: $\geq 99\%$                                                                                                                                                                                                                           |           |
| LPR Accuracy Rate                     | Entrance & Exit: $\geq 99\%$ ; Road: $\geq 98\%$<br>(Under recommended installation and lighting condition)                                                                                                                                                                                                             |           |
| Others                                |                                                                                                                                                                                                                                                                                                                         |           |
| Power Supply                          | DC12V/AC24V/PoE                                                                                                                                                                                                                                                                                                         |           |
| Power Consumption                     | DC12V: $< 12W$ ; AC24V: $< 10W$ ; PoE: $< 10W$                                                                                                                                                                                                                                                                          |           |
| Operating Environment                 | - 30 °C ~ 60 °C (-22°F~140°F); Humidity: less than 95 % (non-condensing)                                                                                                                                                                                                                                                |           |
| Storage Environment                   | - 30 °C ~ 65 °C (-22°F~149°F); Humidity: less than 95 % (non-condensing)                                                                                                                                                                                                                                                |           |
| Dimensions (mm)                       | 278.3 × 100.4 × 88.7                                                                                                                                                                                                                                                                                                    |           |
| Weight (net)                          | Approx. 1.176KG                                                                                                                                                                                                                                                                                                         |           |
| Material                              | Aluminum alloy body                                                                                                                                                                                                                                                                                                     |           |
| Installation                          | Ceiling mounting; Wall mounting                                                                                                                                                                                                                                                                                         |           |
| Certificate                           | CE, FCC                                                                                                                                                                                                                                                                                                                 |           |
| Environmental Protection              | Complies with Directive EU RoHS, WEEE(2012/19/EU), and REACH(EC1907/2006)                                                                                                                                                                                                                                               |           |

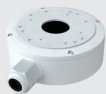
## DIMENSIONS



## AVAILABLE MODEL

|                 |                               |                      |
|-----------------|-------------------------------|----------------------|
| Available Model | TD-9423A3BH-B-LR(D/AZ/PE/AR5) | 2.8 ~12mm, motorized |
|                 | TD-9423A3BH-B-LR(D/AZ/PE/AR7) | 8 ~32mm, motorized   |

## AVAILABLE ACCESSORIES



TD-YXH0302



TD-YXH0302+  
TD-YZJ0811



TD-YXH0302+  
TD-YZJ0501



TD-YXH0302+  
TD-YZJ0601