



Key Features

Network

TNO-7180RLP

High-speed License Plate Capture Camera



- 3MP, Color Global Shutter Sensor
- 6.8~120mm(18x) motorized varifocal
- H.265, H.264, MJPEG codec
- Maximum 60fps@3MP all resolutions (H.265, H.264, MJPEG)
- Edge Storage Pre-installed with 32GB Micro SD to support 10,000 LPR images
- WiseStreamII support
- HPoE, 12VDC
- IR Viewable Length 50m(164.04ft)
- IP66, IK10, NEMA 4X, NEMA TS 2(2.2.8, 2.2.9)
- Wisenet Road AI application (Pre-installed)
- License/Number Plate Recognition
- Make/Model/Color Recognition
- Black/White list notification
- Smart Search (LP/NP, Country, brand, model, color)

*POE power supply is not included, must be purchased separately if required

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TNO-7180RLP

High-speed License Plate Capture Camera





Specifications

| Video | TNO-7180RLP | |
|-----------------------------|--|--|
| Imaging Device | 1/1.8" CMOS, Global shutter | |
| Resolution | 3M: 2048x1536, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 2M: 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, (40x400, (40x260, 200x240) | |
| M. Francisco | 640x480, 640x360, 320x240 3M: H.265/H.264: Max. 55fps/50fps(55Hz/50Hz), MJPEG: Max. 5fps(55Hz/50Hz) | |
| Max. Framerate | 2M: H.265/H.264: Max. 60fps/50fps(60Hz/50Hz), MJPEG: Max. 5fps (60Hz/50Hz) | |
| Min. Illumination | Color 0.1 Lux (1/30sec, gain 48dB) | |
| Video Out | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation USB: Micro USB Type B, 1280x720 for installation | |
| Lens | | |
| Focal Length (Zoom Ratio) | 6.8~120mm(18x) motorized varifocal | |
| Max. Aperture Ratio | F1.6(Wide)~F4.13(Tele) | |
| Angular Field of View | H: 54.5°(Wide)~3.4°(Tele), V: 42.3°(Wide)~2.5°(Tele) | |
| Min. Object Distance | 2m (6.5ft) | |
| Focus Control | Simple focus, Focus save | |
| Lens Type | DC auto iris | |
| Operational | | |
| Camera Title | Displayed up to 85 characters | |
| Day & Night | Auto(ICR) | |
| Backlight Compensation | BLC, SSDR | |
| Digital Noise Reduction | SSNRV | |
| Digital Image Stabilization | not support | |
| Defog | Not Support | |
| Motion Detection | 8ea, polygonal zones | |
| Privacy Masking | 6ea, Rectangle zones - Color: Grey/Green/Red/Blue/Black/White | |
| Gain Control | Support | |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor | |
| LDC | Not Support | |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker (1/25 ~ 1/12,000sec) / Global Shutter mode | |
| Video Rotation | Flip, Mirror | |
| Analytics | Analytics events - Motion detection, Tampering, Virtual line(Crossing/Direction), Virtual Area(Loitering/Intrusion/Enter/Exit, Appear/Disappear) | |
| Serial Interface | RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell) | |
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TNO-7180RLP



| NU-7 IOURLF | | |
|-----------------------------------|--|--|
| Alarm Triggers | Analytics, Network disconnect, Alarm input | |
| Alarm Events | When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: NAS recording at event triggers - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP | |
| Audio In | Selectable(mic in/line in) | |
| Audio Out | Line out | |
| IR Viewable Length | WiseIR 50m (164ft) | |
| | | |
| Network | | |
| Ethernet | RJ-45(10/100/1000BASE-T) | |
| Video Compression | H.265/H.264: Main/Baseline/High, MJPEG | |
| Smart Codec | Manual(5ea area), WiseStream II | |
| Bitrate Control | H.264/H.265: CBR or VBR MJPEG: VBR | |
| Streaming | Unicast(20 users) / Multicast Multiple streaming (Up to 10 profiles) | |
| Protocol | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTF | |
| Security | HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Techwin root CA) Secure boot/OS/Storage, Verify firmware forgery TPM 2.0 with FIPS 140-2 level2 | |
| Application Programming Interface | ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform v3.60 | |
| General | | |
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek | |
| Web Viewer | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac O X only) | |
| Edge Storage | Micro SD/SDHC/SDXC 1slot (32GB Card preinstalled) | |
| Memory | 2048MB RAM, 256MB Flash | |
| Environmental & Electrical | | |
| Operating Temperature / Humidity | Normal : -40°C~+55°(-40°F ~ +131°F) / Intermittent : -40°C~+60°C(-40°F ~ +140°F) Cold start : -40°C Maximum Temperature based on NEMA-TS 2(2.2.7) : +74°C(+165°F) Less than 95% RH(Non-condensing) | |
| Storage Temperature / Humidity | -50°C~+60°C / Less than 95% RH(Non-dondensing) | |
| Certification | IP66, IK10, NEMA 4X, NEMA TS 2(2.2.8, 2.2.9) | |
| Input Voltage | HPoE(IEEE802.3bt type3, Class6), 12VDC ** HPoE injector not included | |
| Power Consumption | PoE : Max 50W, Typical 27W 12VDC : Max 47.5W, Typical 25W | |
| | | |
| Mechanical | | |
| Mechanical Color / Material | White/Aluminum | |

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|-------------------------------|---|--|--|
| Wisenet Road AI LPR/ANPR/MMCR | | | |
| Solution | City Traffic Observation | Highways | |
| Speed Description | Regular Speed | High Speed | |
| Lane Coverage | Up to 2 lanes | Up to 2 lanes | |
| Speed limit | Up to 120kmh (75mph) for 2 lanes | Up to 200kmh (125mph) for 2 lanes | |
| Min. Forward Distance | 16m (52ft) | 27m (90ft) | |
| Max. Forward Distance | 46m (150ft) | 46m (150ft) | |
| Max. Horizontal Angle | 25° | 15° | |
| Max. Vertical Angle | 25° | 15° | |
| Horizontal Offset | Up to 7m (24ft) | Up to 4m (12ft) | |
| Camera Height | Up to 7m (24ft) | Up to 7m (24ft) | |
| Vehicle Recognition | Make : 70+ Model : 600+ Color : 10 | Make : 70+ Model : 600+ Color : 10 | |
| Available Countries | Albania, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, Czechia, Denmark, Estonia, Finland, France, Greece, Germany, Hungary, Ireland, Iceland, Italy, Lithuania, Luxembourg, Latvia, Montenegro, North Macedonia, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Slovakia, Spain, Switzerland, Turkey, United Kingdom, United States of America, Canada, Mexico | Albania, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, Czechia, Denmark, Estonia, Finland, France, Greece, Germany, Hungary, Ireland, Iceland, Italy, Lithuania, Luxembourg, Latvia, Montenegro, North Macedonia, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Slovakia, Spain, Switzerland, Turkey, United Kingdom, United States of America, Canada, Mexico | |

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