# IP Tube 4 MPx (2.8-12 mm, licence plate/ANPR)

NUMBER PLATE RECOGNITION: ANALYSE NUMBER PLATES AND CONTROL RELAYS - WITHOUT PC OR NVR
This IP camera delivers video streams in high 4 MPx resolution at 25 fps. The corrosion and weatherproof camera (IP67, NEMA 4X) monitors the outdoor area, thanks to IR LEDs with a range of 50 m by day and night. Access the LAN camera conveniently via app.

Automatically recognise vehicles and number plates
Thanks to intelligent object recognition, the security camera first detects the vehicle, then the number plate.

Automatic access control
Gates and barriers are controlled by comparing the number plates with positive/negative lists: Only authorised vehicles are allowed to pass. All this is done autonomously by the camera, including a push alarm to the app. This also creates time and cost advantages in work processes (e.g. car park, logistics, construction site).

Best overview even at a distance
The motorised zoom lens with 2.8-12 mm focal length (4.2x optical zoom) covers a range of 42°-114°. Adjust focal length and focus easily on the web browser - even by one person alone.

Recording and compatibility
Save recordings on microSD card, ABUS recorder or via video management software.

Quick installation
The free ABUS IP Installer software for network setup.

Notes: Power is supplied via PoE or plug-in power supply unit (accessory).
The effective IR range will vary depending on the installation location.

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## Technologies

- 4 MPx resolution (2,688 × 1,520 @ 25 fps) for accurate surveillance images and number plate recognition
- 2.8-12 mm motorised zoom lens (4x optical zoom, 42°-114° viewing angle) for flexible choice of installation location, depending on the distance to the surveillance area (e.g. driveway, barrier)
- Number plate recognition on vehicles (up to max. 70 km/h), fully automatic for entrances, in car parks, on construction sites, etc. (ANPR: Automatic Number Plate Recognition)
- Use as a stand-alone camera (without additional devices, licence plate lists on SD card in the camera, app notification in the event of unauthorised entry) or in conjunction with recorder (NVR) or PC (ABUS CMS software)
- Intelligent object recognition: in ANPR mode, first the vehicle is recognised by the shape and then the number plate (protection against manipulation with dummies)
- 140 dB WDR function to effectively compensate for image contrasts, strong backlighting, etc., Ultra Low-Light Performance for top image results in low-light conditions
- IR LEDs for clear images in the dark (up to 50 m range)
- Very robust, vandalism- and weather-proof housing (IK10, IP67) plus corrosion protection (NEMA 4X), optimal for mounting at low heights (splash water, salt, dirt) or use near the coast (salty air)
- microSD card slot for comparison lists and internal data storage (optional: encryption)
- Supports H.264, H.265, MJPEG (incl. Dynamic GOP); 12 V DC & PoE (802.3af)

## Technical data - IP Tube 4 MPx (2.8-12 mm, licence plate/ANPR)

| | |
|---|---|
| Alarm input (NO/NC) | 2 |
| Alarm output | 2 |
| Alarming | E-Mail, App Push, FTP, CMS |
| Aperture at minimum illumination (colour) | F1.2 – F2.5 |
| Audio | Connectable: Microphone, Loudspeaker |
| Backlight compensation | WDR, BLC, HLC |
| Camera type | Tube |
| Certifications | NEMA 4X |
| Compatible with ABUS Link Station | Yes |
| Compatible with Comfion | Yes |
| Compatible with Secoris | No |
| Compatible with Secvest | No |
| Compatible with wAppLoxx | No |
| Compatible with wAppLoxx Pro | No |
| Connections | 1 x RJ45, 1 x DC, 2 x alarm in, 2 x alarm out, 1 x Wiegand, 1 x DC out, 1 x audio in, 1 x audio out, 1 x RS485 |
| DC voltage supply | 12 (+/-20 %) V |

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| | |
|---|---|
| Day/night switching | ICR/Color/B/W |
| Design | Tube |
| Digital zoom | Yes |
| Dimensions | (LxWxH) 350x140x140 mm |
| Dynamic range (WDR) | 140 dB |
| Electronic shutter | 1 - 1/100000 s |
| Encryption | HTTPS |
| Focal length | 2,8 – 12,0 mm |
| Frame rate | 25/30 |
| Functions | ANPR - Automatic Number Plate Recognition (Europe, max. 70 km/h) |
| Gross weight | 3,1 kg |
| Height | 140 mm |
| Horizontal viewing angle | 42 – 114 ° |
| ICR day/night function | Yes |
| IP protection class | 67 |
| IR LEDs | Yes |
| IR range (up to) | 50 m |
| Image enhancement | WDR, BLC, HLC, 3D DNR, EIS Electr. Image Stabilizer |
| Image integration | Yes |
| Image sensor | 1/1.8" Progressive Scan CMOS |
| Intended use | Number plate recognition |
| LAN network access | RJ45 10M/100M self-adaptive |
| Language of instructions | DE, UK, FR, NL, DK, IT |
| Length | 350 mm |
| Lens | Motor-Zoom, Autofokus |
| Max. humidity | 95 % |
| Max. operating temperature | 60 °C |
| Max. resolution @ frame rate | 2688 x 1520 @ 25/30 fps |
| Microphone | No |
| Min. operating temperature | -30 °C |
| Minimum illumination (IR) | 0 lx |
| Minimum illumination (colour) | 0,0005 lx |
| Motion detection | Yes |
| Net weight | 2 kg |
| Network access | RJ45 |
| Network camera protocols | IPv4/v6, HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, TCP, UDP, DHCP, ABUS Server, P2P, QoS, 802.1X, IGMP, PPPoE, SNMP |
| Noise reduction | 3D DNR |

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| | |
|---|---|
| Number of IR LEDs | 4 |
| Number of streams | 5 |
| Number of users | 32 |
| OSD language | DE, UK, FR, NL, DK, IT |
| Optical zoom | 4,2 x |
| Other functions | Black/White List (max. 10000 number plates) |
| Pixels (effective) | 2688(H) x 1520(V) pixel |
| PoE standard | IEEE 802.3at |
| Power consumption | 1.400 mA |
| Private zones | 4 |
| Protection class IK | 10 |
| Relay output | 2 |
| Resolution | 4 MP |
| Resolution modes | Stream 1: 2688 x 1520 @ 30 fps, Stream 2: 704 x 576 @ 30 fps, Stream 3: 1920 x 1080 @ 30 fps, Stream 4: max. 1.920 x 1.080 @ 30 fps, Stream 5: max. 704 x 576 @ 30 fps |
| Sabotage monitoring | Scene Change Detection, Cover Detection |
| Storage medium | microSD card, 256 GB (opt.) |
| Supported browsers | MS Edge, IE11, Mozilla Firefox, Google Chrome |
| Technology | IP |
| Vertical viewing angle | 24 – 59 ° |
| Video Content Analysis (VCA) | ANPR - Automatic Number Plate Recognition (Europe, max. 70 km/h, single/double line plates) |
| Video compression | Stream 1: H.264, H.265, H.264+, H.265+, Stream 2/3/4/5: H.264, H.265, MJPEG |
| Video network bandwidth | 32 kBit/s - 8 MBit/s |
| Video output | CVBS (2-Pin) |
| Video system | IP |
| White balance | AWB, Manual |
| Width | 140 mm |