



**HNC512-VBA12-LPR**

**2MP Smart IP Outdoor Bullet Camera**

Vehicle speeds of 75 mph (120 km/h) are supported. Up to four lanes of traffic can be monitored. Vehicle direction and recognition of vehicles both approaching and leaving are included.

Up to 2,048 whitelist (authorized) and blacklist (unauthorized) records can be maintained.

* 1/1.8” Progressive Scan CMOS
* Full HD1080p video
* Up to 60fps frame rate
* High light environment
* 120dB WDR
* 3D DNR
* Audio/Alarm IO
* Support 128G on-board storage
* DC12V/POE(802.3at)

License Plate Recognition (LPR) ultra-low light smart camera is able to capture vehicle images and recognize the vehicle number (license) plate in dim light environments.

HNC512-VBA12-LPR camera offers high resolution, 120 dB WDR, auto-iris, PoE, defog, EIS, 3D DNR, IR, heater, alarm I/O, and audio I/O, etc., to meet a wide variety of applications.

The camera is available in 2.8–12 mm and 8–32 mm lens options and features an LP capture rate up to 99 percent and a recognition rate up to 95 percent.

**Key Features**

**Smart**

* 6 behavior analysis, 4 exception detections, 1 recognition, 1 statistic function.
* Smart recording: Support edge recording and dual-VCA.
* Smart encoding: Support low bit rate; low latency; ROI enhance encoding
* Smart lens options: ABF, P-iris.

**Image**

* HD 1920 × 1080 @ 60 fps
* Support rotate mode, suitable for environment as corridor.
* Support regional cropping, details can be seen with low bandwidth.
* Code smoothness setting for different requirements of image quality and fluency.
* Support H.264+/H.264/MJPEG video compression, multi-level video quality configuration; support Basic/Main/High Profile H.264 encoding complexity.
* Multiple OSD color: Black & white self-adaptive; Custom
* WDR is supportable for backlight environment.
* Support defog, BLC, HLC.

**System**

* Support ONVIF (profile S/profile G), CGI, PSIA, ISAPI protocol.
* Support three streams, and Support 20 channels live view at the same time.
* Anti-surge, anti-static protection level.

**Interface**

* Support standard 128G Micro SD/SDHC/SDXC card storage.
* Support 10M/100M/1000M Ethernet Port.
* Support Audio I/O, support dual channel stereo audio.
* Support Alarm I/O
* Support CVBS analog output (4CIF resolution)

**Security**

* Support three-level user authentication management, user and password authorization, IP address filtering and anonymous access.
* Support security certificate as HTTPS, SSH; support creating certificate.
* Basic and digest authentication is supportable in IE configuration
* Lock user IP for many times error login

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| **Specification** |
| ***Camera*** |
| Image Sensor | 1/1.8’’ Progressive Scan CMOS |
| Min. Illumination | 0.0027 Lux @ (F1.4, AGC ON), 0 lux with IR |
| Shutter Speed | 1/3s ~ 1/100,000s |
| Slow Shutter | Support |
| Lens | 2.8-12mm @ F1.4 angle of view: 92°~32°; 8-32mm @ F1.4 angle of view: 42°~13.5° |
| Lens Mount | AF automatic focusing and motorized zoom lens |
| Auto-iris | DC drive |
| Day & Night | IR cut filter with auto switch |
| WDR | 120dB |
| ***Compression Standard*** |  |
| Video Compression  | H.264+/H.264/MJPEG/MPEG4 |
| H.264 Type | Baseline Profile / Main Profile / High Profile |
| Video Bit Rate | 32 Kbps – 16 Mbps |
| Audio Compression | G.711/G.722.1/G.726/MP2L2 |
| Audio Bit Rate | 64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2) |
| ***Image*** |
| Max. Resolution | 1920 x 1080 |
| Frame Rate | 50Hz: 50fps (1920 × 1080)/(1280 × 960)/(1280 × 720)60Hz: 60fps (1920 × 1080)/(1280 × 960)/(1280 × 720) |
| Third Stream | Independent with Main Stream and Sub Stream, up to 50/60Hz: 20fps(1280 × 720) |
| Image Enhancement | EIS/BLC/HLC/3D DNR/ROI/Defog |
| Image Setting | Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser |
| Regional Cropping | Support |
| Distortion Correction | Support |
| Day/Night Switch | Auto/Schedule/Triggered by Alarm In |
| Picture Overlay | LOGO picture can be overlaid on video with 128x128 24bit bmp format |
| ***Road Traffic & Vehicle Detection*** |
| Accuracy | Capture rate up to 99%, recognition rate up to 95% (if LPR Camera Installation Manual carefully followed) |
| Vehicle Speed | Supports vehicle speeds under 74.6 mi/h (120 km/h) |
| Line Numbers | Up to four lines supported. Recommend setting 1 or 2 lines for best performance |
| Direction | Supports capture and recognition of vehicles both approaching and leaving |
| Whitelist & Blacklist | Up to 2,048 |
| ***Interface*** |  |
| Audio | 1-ch 3.5 mm audio in (Mic in/Line in)/out interface |
| Communication Interface | 1 RJ45 10M/100M/1000M Ethernet port |
| Alarm | 1 input, 1 output (up to DC24V 1A or AC110V 500mA )  |
| Video Output | 1Vp-p composite output (75 Ω/BNC) |
| On-board storage | Built-in Micro SD/SDHC/SDXC slot, up to 128 GB |
| Reset Button | Yes |
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| ***Audio*** |
| Environment Noise Filtering | Support |
| Audio I/O | Support dual audio track, stereo |
| Audio Sampling Rate | 16kHz / 32kHz / 44.1kHz / 48kHz |
| ***Smart Feature-set*** |
| Behavior Analysis | Line crossing detection, Intrusion detection, Region entrance, Region exiting, Unattended baggage, Object removal |
| Line Crossing Detection | Cross a pre-defined virtual line |
| Intrusion Detection | Enter and loiter in a pre-defined virtual region |
| Region Entrance | Enter a pre-defined virtual region from the outside place |
| Region Exiting | Exit from a pre-defined virtual region |
| Unattended Baggage | Objects left over in the pre-defined region such as the baggage, purse, dangerous materials |
| Object Removal | Objects removed from the pre-defined region, such as the exhibits on display |
| Exception Detections | Scene change detection, Sudden audio increase/decrease detection, Audio loss detection, Defocus detection |
| Recognition | Face detection recognition |
| Statistics | Object Counting (Entrance and Exit object number is accounted and showed on screen in real time) |
| Heat Map | Support |
| ***General*** |
| Protection Level | IP67 |
| IR Distance | 50m(2.8~12mm)/100m(8~32mm) |
| Operating Conditions | -40 °C – 60 °C (-42 °F – 140 °F), Humidity 95% or less (non-condensing) |
| Power Supply | 12 V DC ± 10%, PoE (802.3at) |
| Power Consumption | Max. 15W |
| Dimensions | 311.8 × 100 ×103.9 mm (12.28″ × 3.94″ × 4.09″) |
| Weight | Camera: approx. 2075 g (4.57 lb.) With package: approx. 2100 g (4.63 lb.) |

DS-1320HZ

 Indoor Housing

DS-1322HZ-C/H/CW/HW Outdoor Housing

HV1140D-8MPIR

11~40mm DC Iris Lens

HV1140P-8MPIR

11~40mm P-Iris Lens

HV3816D-8MPIR

3.8~16mm DC Iris Lens

HV3816P-8MPIR

3.8~16mm P-Iris Lens