

# NC512-VBA32-LPR



2MP Low Light Smart Bullet LPR Camera

## DARKFIGHTER



Smart **IPC**



### LPR

1. License plate recognition
2. Support White & Black list, up to 2048
3. Support multiple license plate recognition and direction recognition

The Darkfighter series ultra-low light Smart cameras are able to capture high quality colored images in dim light environment. NC512-VBA12-LPR offers Full HD resolution with up to 60fps high frame rate, 120dB WDR, PoE, Defog, 3D DNR and complete Smart Feature-set to meet a wide variety of applications.

- 1/1.8" Progressive Sca
- CMOS Full HD1080p video
- Up to 60fps frame rate
- Ultra-low light
- Slow shutter
- 3D DNR
- Up to 50m IR Range
- Motorized Lens With Smart Focus
- H: Built-in Heater
- S: Audio/Alarm IO
- Support 128G on-board Storage DC12V/PoE IP67
- Support ANR

# NC512-VBA32-LPR



## 2MP Low Light Smart Bullet LPR Camera

| NC512-VBA32-LPR             |   |
|-----------------------------|---|
| <b>Camera</b>               |   |
| Image Sensor                | 1/2.8" Progressive Scan CMOS  |
| Min. Illumination           | 0.002 Lux @ (F1.2, AGC ON), 0.0027 Lux @ (F1.4, AGC ON), 0 Lux with IR  |
| Shutter Speed               | 1s ~ 1/100,000s   |
| Slow Shutter                | Support   |
| Lens                        | 8~32mm  |
| Lens Mount                  | AF automatic focusing and motorized zoom lens   |
| Auto-iris                   | DC drive  |
| Day & Night                 | IR Cut Filter   |
| WDR                         | 120dB   |
| <b>Compression Standard</b> |   |
| Video Compression           | H.264/MPEG4/MJPEG   |
| 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)   |
| <b>Image</b>                |   |
| Max. Resolution             | 1920 × 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 50Hz: 25fps(1920 × 1080); 60Hz: 30fps (1920 × 1080)                                |
| Image Enhancement           | BLC/3D DNR/ROI/Defog/EIS  |
| Image Setting               | Rotate Mode, 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   |
| <b>Network</b>              |   |
| Network Storage             | NAS (Support NFS,SMB/CIFS), ANR   |
| Alarm Trigger               | Motion detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception   |
| Protocols                   | TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour |
| Security                    | User Authentication, Watermark, IP address filtering, Anonymous access  |
| Standard                    | ONVIF(PROFILE S,PROFILE G),PSIA,CGI,ISAPI   |
| <b>Interface</b>            |   |
| Audio (-S)                  | 1-ch 3.5 mm audio in( Mic in/Line in)/out interface   |
| Communication Interface     | 1 RJ45 10M/100M Ethernet port;  |
| Alarm (-S)                  | 1 input, 1 output (up to DC24V 1A or AC110V 500mA )   |
| Video Output (-S)           | 1Vp-p composite output (75 Ω/BNC)   |
| On-board storage            | Built-in Micro SD/SDHC/SDXC slot, up to 128 GB  |
| Reset Button                | Yes   |
| <b>Audio (-S)</b>           |   |
| Environment Noise Filtering | Support   |
| Audio I/O                   | Support dual audio track, stereo  |
| Audio Sampling Rate         | 16kHz / 32kHz / 44.1kHz / 48kHz   |

# NC512-VBA32-LPR

## 2MP Low Light Smart Bullet LPR Camera

### Smart

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

### Image

- HD 1920 × 1080@60fps
- Supports image distortion correction
- 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/MPEG4/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, EIS

### Infrared

- Irradiation distance is up to 50m
- IR anti-reflection panel, increase infrared light transmittance.
- Smart IR, prevent over-exposure in close distance

### System

- Support ONVIF (profile S/profile G), CGI, PSIA, ISAPI protocol.
- Support three streams, and Support 20 channels live view at the same time.
- AF automatic fast focus, maintain focused during zooming
- Smart heater for starting in extra low temperature
- Anti-surge, anti-static, IP67 protection level

### Interface

- Support standard 128G Micro SD/SDHC/SDXC card storage
- Support 10M/100M 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

| 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)                  |
| License Plate Recognition |   |
| LPR Setting               | Recognition area & Country configurable, recognition accuracy: 96% (Speed Support up to:70km/h)                   |
| Info. Overlay             | Camera No., camera info., capture time, plate info.   |
| Image Setting             | Picture quality & size configurable   |
| OSD Setting               | Font & Background color configurable  |
| Integration               | ONVIF: Capture time & License plate info. accessible  |
|                           | GENETEC: Capture time & License plate info. accessible  |
|                           | SDK & ISAPI: Capture time, License plate info., License plate & vehicle picture accessible                        |
| General                   |   |
| Protection Level          | IP67  |
| Operating Conditions      | -30°C – 60 °C (-22 °F – 140 °F), Humidity 95% or less (non-condensing); -H: -40°C – 60 °C                         |
| Power Supply              | 12 V DC ± 10%, PoE (802.3af)  |
| IR Distance               | Up to 50m   |
| Power Consumption         | Max. 12 W   |
| Dimensions                | 100×103.9×311.8 mm (3.94" × 4.09" × 12.28")   |
| Weight                    | 2000 g (4.41 lbs)   |

### Dimensions

