



VTC-TNB4LPRN

Transcendent Series 4 MegaPixel
License Plate Recognition WDR IP
Motorized Bullet Camera

OPERATION MANUAL



FEATURES:

- 1/1.8" 4 MegaPixel Progressive Scan CMOS Sensor
- Advanced Starlight Technology Offers Dramatically Higher Sensitivity to Light Producing Color Images in Very Dark & Night Scenes
- Up to 30fps live view @ 4 MegaPixel (2592 × 1520)
- 8~32mm @F1.6 Motorized Varifocal Lens
- Matrix IR (up to 325' IR Range)
- True Wide Dynamic Range (120dB)
- True Mechanical Day / Night function by ICR
- XD-DNR (3D & 2D-DNR) Noise Reduction
- Intelligent Analytics: License Plate Recognition, Vehicle Type Detection, Video Exception
- 10,000 Vehicle Plate Database
- 0-75m/h (120km/h) Capture Speed (*Dependant on Installation*)
- Overlay Options: Time, Location, License Plate Information
- Triple Streaming: H.265+ / H.265 / H.264+ / H.264 / MJPEG
- 1 Ch. Audio In + 1 Ch. Audio Out*
- 1 Ch. Alarm In + 1 Ch. Alarm Out, 1 Ch. CVBS
- Supports Wiegand Protocol for Advanced Access Control Integrations
- Remote Viewing via VMS, Web Browsers, and iOS & Android Apps
- MicroSD Card Slot for Local Recording (256GB)
- IP67 Weather Resistance
- Wall Mount Included, Optional Mounts: Junction Box VT-TJB01
[See Additional Mounting Options on pg. 58]
- 12VDC / 24VAC [Dual Voltage] & PoE (Power over Ethernet) Operation Options
- 3-Year Warranty

**Please research local, state and federal laws regarding audio surveillance.*



PLEASE NOTE:

Complete User Guide, Software, Tools, and Updates are available online. Scan the QR Code or visit:
<http://www.vitekccv.com/Downloads>



NOTES

- This product was designed for use with a UL Listed Power supply. Confirm product power requirements before use.
- Do not attempt to disassemble the unit. To prevent electric shock, do not remove screws or covers.
- There are no user-serviceable parts inside. Please contact your VITEK Reseller as soon as possible if there is any failure.
- Avoid incorrect operation, shock / vibration, and heavy pressure which can cause damage.
- Do not use corrosive detergent to clean the body of the camera. If necessary, use a soft dry cloth to wipe dirt. For hard contamination, use neutral detergent. Any cleanser for high grade furniture is suitable.
- Avoid aiming the camera directly towards extreme light sources, such as direct sunlight, as this may damage the image sensor.
- Please follow the instructions to install the camera.
- Do not operate when temperature, humidity or power supply are beyond the limited stipulations.
- Keep away from heat sources such as radiators, heat registers, stove, etc.
- Do not expose the product to direct air flow from an air conditioner.
- This manual is for using and managing the product. We reserve the right to amend typographical errors, inconsistencies with the latest version, software upgrades and product improvements, interpretation and other modifications. These changes will be published in the latest version without notification.
- All pictures, charts, images in this manual are only for description and explanation of our products. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google belong to the aforementioned companies.

Disclaimer

- For products with internet access, usage will be wholly at your own risks. VITEK is not responsible for abnormal operation, privacy leakage or other damages resulting from cyber attacks, hackers, virus infection, or other internet security risks; however, VITEK will provide timely technical support if necessary.
- Surveillance laws vary from country to country. Check all laws in your local region before using this product for surveillance purposes. VITEK is not responsible for any consequences resulting from illegal operations.

Regulatory Information

FCC Marking: This product has been tested and found in compliance with the council FCC rules and regulations part 15 subpart B. Operation of this product is subject the following two conditions: (1) this device may not cause harmful interface, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE Marking: This product has been manufactured to comply with the following directives: MEC Directive 2014/30/EU

RoHS: This product has been designed and manufactured in accordance with Directive EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

VITEK Recommended Power Supplies for VTC-TNB4LRPN



VT-12VDC-2000S - Slim Case 12VDC Transformer 2 AMP - *UL Listed*

VT-24VAC/50 - 24VAC Linear Transformer 50VA - *UL Listed*

VT-1205A-D4B - 4 Output 12VDC Power Center w/Optional Backup Battery
- 5 AMP - *UL Listed*

VT-1210A-D9B - 9 Output 12VDC Power Center w/Optional Backup Battery
- 10 AMP - *UL Listed*

VT-1230A-D18 - 18 Output 12VDC Power Center - 30 AMP - *UL Listed*

VT-2410A-A9 - 9 Output 24VAC Power Center - 10 AMP - *UL Listed*

VT-2415A-A18 - 18 Output 24VAC Power Center - 15 AMP - *UL Listed*

VITEK Recommended PoE Injectors for VTC-TNB4LRPN



VT-POE60 - 60 Watt POE Mid-Span Injector, 4-Pair Compliant, IEEE802.3af/at Auto Detect, Distance up to 330'

VT-POE95 - 95 Watt POE Mid-Span Injector, 4-Pair Compliant, IEEE802.3af/at Auto Detect, Distance up to 330'



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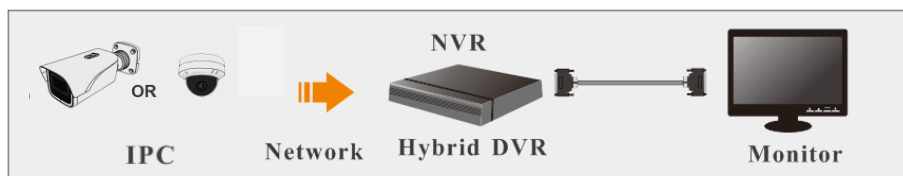
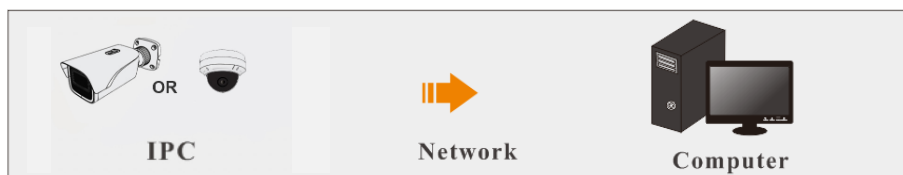
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Introduction

Main Features

- ICR auto switch, true day/night
- 3D DNR, WDR
- BLC, Defog, Anti-flicker, smart IR, corridor mode
- ROI coding
- Abnormal video signal detection (scene change, video blur detection, video color cast detection), license plate recognition
- Supports mobile surveillance by smart phones with iOS and Android OS

Surveillance Applications



1 Network Connection

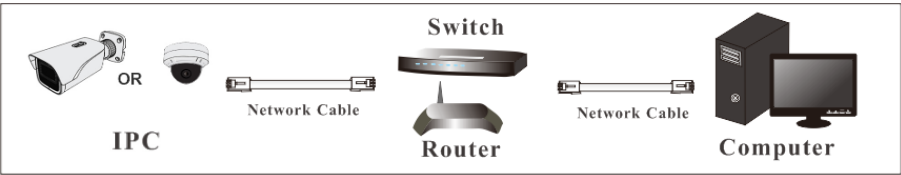
Connect IP-Cam via LAN or WAN. IE browser is used here as an example. The details are as follows:

1.1 LAN

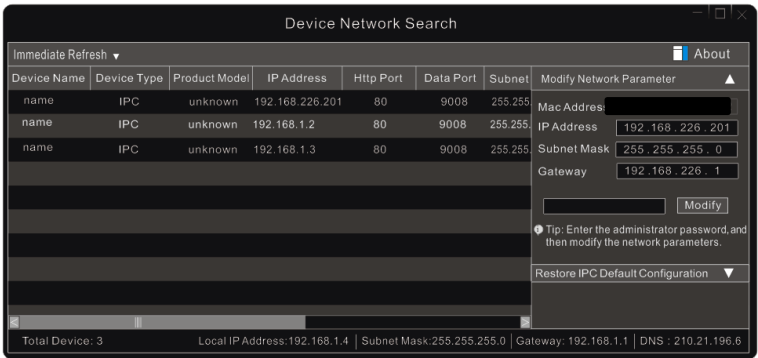
In LAN, there are two ways to access IP-Cam: 1. access through IP-Tool; 2. directly access through IE browser.

1.1.1 Access through IP-Tool

Network connection:

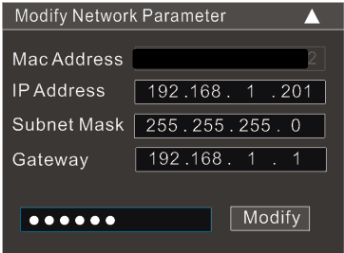


- ① Make sure the PC and IP-Cam are connected to the LAN and the IP-Tool is installed in the PC.
- ② Double click the IP-Tool icon on the desktop to run this software as shown below:



- ③ Modify the IP address. The default IP address of this camera is 192.168.226.201. Click the information of the camera listed in the above table to show the network information on the right side. Modify the IP address and gateway of the camera and make sure its network address is in the same local network segment as the computer's. Please modify the IP address of your device

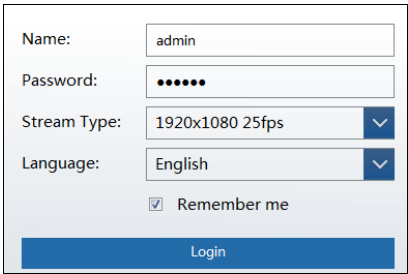
according to the actual scenario.



For example, if the IP address of your computer is 192.168.1.4. The IP address of the camera should therefore be changed to 192.168.1.X. After modifying, please enter the password of the administrator and click the “Modify” button to modify the setting.

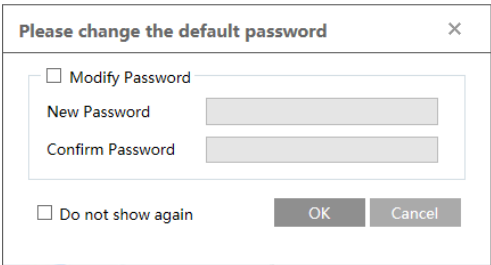
 The default password of the administrator is “**123456**”.

④ Double click the IP address and the system will bring up the IE browser to connect the IP-CAM. Follow directions to download, install and run the Active X control.



Enter the username and password in the login window to log in.

 The default username is “**admin**”; the default password is “**123456**”.



The system will display the above-mentioned textbox to ask you to change the default password. It is strongly recommended to change the default password for account security. If “Do not show again” is checked, the textbox will not appear next time.

1.1.2 Directly Access through IE

The default network settings are as shown below:

IP address: **192.168.226.201**

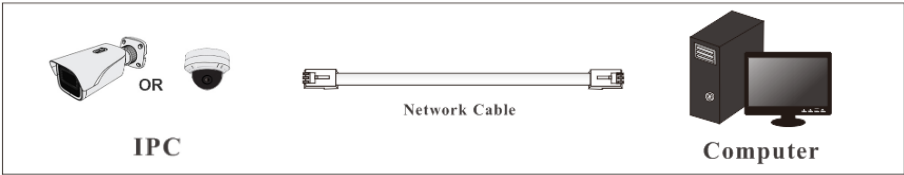
Subnet Mask: **255.255.255.0**

Gateway: **192.168.226.1**

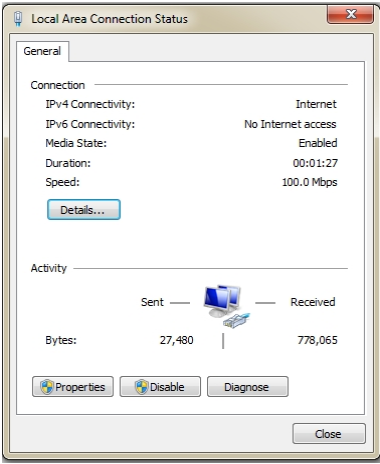
HTTP: **80**

Data port: **9008**

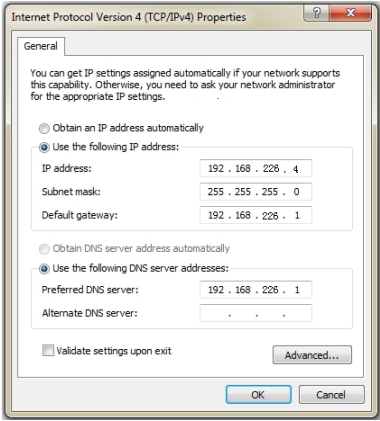
Use the above default settings when logging into the camera for the first time. Directly connect the camera to the computer through network cable.



① Manually set the IP address of the PC. The network segment should be as the same as the default settings of the IP camera. Open the network and share center. Click “Local Area Connection” to bring up the following window:



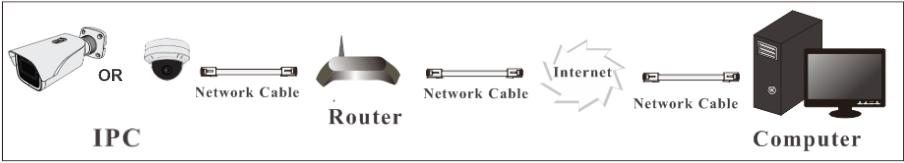
Select “Properties” and then select “internet protocol” according to the actual scenario (for example: IPv4). Next, click the “Properties” button to set the network of the PC.



- ② Open the IE browser and enter the default address of IP-CAM and confirm.
- ③ Follow directions to download and install the Active X control.
- ④ Enter the default username and password in the login window and then enter to view.

1.2 WAN

➤ Access through the router or virtual server



- ① Make sure the camera is connected to the local network and then log in the camera via LAN and go to Config→Network→Port menu to set the port number.

HTTP Port	80
HTTPS Port	443
Data Port	9008
RTSP Port	554

Port Setup

- ② Go to Config →Network→TCP/IP menu to modify the IP address.

IPv4 IPv6 PPPoE Config IP Change Notification Config

☐ Obtain an IP address automatically

☒ Use the following IP address

IP Address

192.168.226.201

Test

Subnet Mask

255.255.255.0

Gateway

192.168.226.1

Preferred DNS Server

210.21.196.6

Alternate DNS Server

8.8.8.8

IP Setup

③ Go to the router’s management interface through IE browser to forward the IP address and port of the camera in the “Virtual Server”.

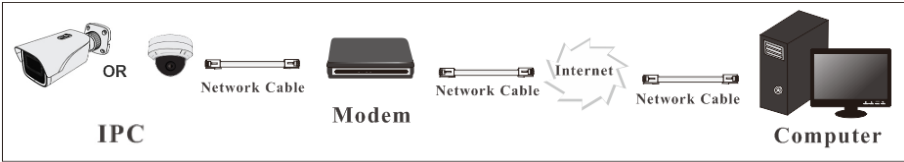
Port Range					
Application	Start	End	Protocol	IP Address	Enable
1	9007	to 9008	Both	192.168.1.201	☒
2	80	to 81	Both	192.168.1.201	☒
3	10000	to 10001	Both	192.168.1.166	☐
4	21000	to 21001	Both	192.168.1.166	☐

Router Setup

④ Open the IE browser and enter its WAN IP and http port to access. (For example, if the http port is changed to 81, please enter “192.198.1.201:81” in the address bar of web browser to access).

➤ Access through PPPoE dial-up

Network connection



Access the camera through PPPoE auto dial-up. The setup steps are as follows:

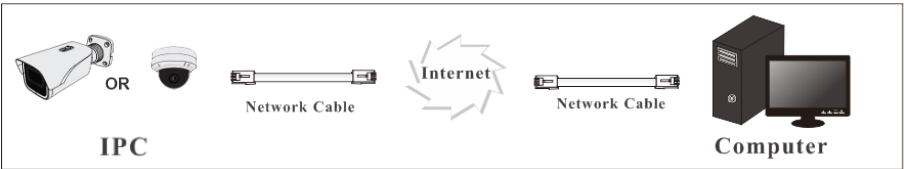
- ① Go to Config→Network→Port menu to set the port number.
- ② Go to Config →Network→TCP/IP→PPPoE Config menu. Enable PPPoE and then enter the username and password from your internet service provider.

IPv4	IPv6	PPPoE Config	IP Change Notification Config
☒ Enable			
User Name	xxxxxxx		
Password	•••••		
Save			

- ③ Go to Config →Network→DDNS menu. Before configuring the DDNS, please apply for a domain name first. Please refer to DDNS configuration for detail information.
- ④ Open the IE browser and enter the domain name and http port to access.

➤ **Access through static IP**

Network connection

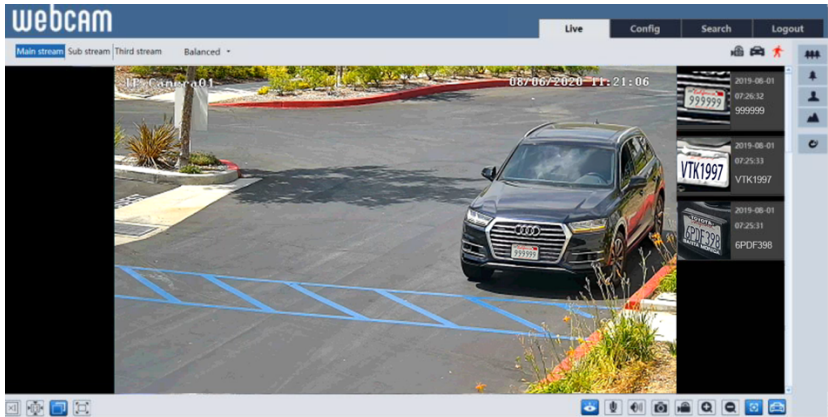


The setup steps are as follows:

- ① Go to Config→Network→Port menu to set the port number.
- ② Go to Config →Network→TCP/IP menu to set the IP address. Check “Use the following IP address” and then enter the static IP address and other parameters.
- ③ Open the IE browser and enter its WAN IP and http port to access.

2 Live View

After logging in, the following window will be shown.



The following table is the instructions of the icons on the live view interface.

Icon	Description	Icon	Description
	Original size		Zoom out
	Fit correct scale		Zoom/Focus control
	Auto (fill the window)		SD card recording indicator
	Full screen		Sensor alarm indicator
	Start/stop live view		Motion alarm indicator
	Start/stop two-way audio (only available for the model with audio input connector)		Color abnormal indicator
	Enable/disable audio		Abnormal clarity indicator
	Snapshot		Scene change indicator
	Start/stop local recording		License plate detection
	Zoom in		

Those smart alarm indicators will flash only when the camera supports those functions and the corresponding events are enabled.

In full screen mode, double click on the mouse to exit or press the ESC key on the keyboard.
Click AZ control button to show AZ control panel. The descriptions of the control panel are as follows:

Icon	Description	Icon	Description
	Zoom -		Zoom +
	Focus -		Focus +
	One key focus (used when image is out of focus after manual adjustment)		

3 Network Camera Configuration

In the Webcam client, choose “Config” to go to the configuration interface.

Note: Wherever applicable, click the “Save” button to save the settings.

3.1 System Configuration

3.1.1 Basic Information

In the “Basic Information” interface, the system information of the device is listed.

Device Name	lpr
Product Model	VTC-TNB4LPRN
Brand	VITEK
Software Version	5.0.1.0(9419)
Software Build Date	2020-06-27
Kernel Version	20190829
Hardware Version	1.4-1422322
Onvif Version	19.12
Video Structured Version	1.2.09
Vehicle Version	1.2.09
OCX Version	2.1.2.3
MAC	08:00:27:00:00:09

Some versions may support device ID and QR code. If P2P is enabled (see Network Configuration-[P2P](#)), the network camera can be quickly added to mobile surveillance client, by scanning the QR code or entering device ID.

3.1.2 Date and Time

Go to Config→System→Date and Time. Please refer to the following interface.

Zone

Date and Time

Zone

GMT-08 (Las Vegas, San Francisco, Vancouver)

☒ DST

☒ Auto DST

☐ Manual DST

Start Time

January

First

Sunday

00

Hour

End Time

February

First

Monday

00

Hour

Time Offset

120 Minutes

Save

Select the time zone and DST as required.
Click the “Date and Time” tab to set the time mode.

Zone

Date and Time

Time Mode:

☐ Synchronize with NTP server

NTP server:

time.windows.com

Update period:

1440

Minutes

☐ Synchronize with computer time

Date

2018-01-08

Time

14:58:21

☒ Set manually

Date

2018-01-09

Time

15:03:28

3.1.3 Local Config

Go to Config→System→Local Config to set up the storage path of captured pictures and recorded videos on the local PC. There is also an option to enable or disable the bitrate display in the recorded files.

Save snapshots to

C:\Program Files\NetIPCamera

Browse

Save recording files to

C:\Program Files\NetIPCamera

Browse

Audio Recording

☐ Open

☒ Close

Bitrate Overlay

☐ Open

☒ Close

Local Smart Snapshot Storage

☐ Open

☒ Close

Save

Additionally, “Local smart snapshot storage” can be enabled or disabled here. If enabled, the captured pictures triggered by smart events (like line crossing detection, region intrusion, etc.) will be saved to the local PC.

3.1.4 Storage

Go to Config→System→Storage to go to the interface as shown below.

Management	Record	Snapshot
Total picture capacity	14829 MB	
Picture remaining space	5068 MB	
Total recording capacity	14784 MB	
Record remaining space	0 MB	
State	Normal	
Snapshot Quota	50 %	
Video Quota	50 %	

Changes in the quota ratio need to be formatted before they become effective.

EjectFormat

- **SD Card Management**

Click the “Format” button to format the SD card. All data will be cleared by clicking this button. Click the “Eject” button to stop writing data to SD card. Then the SD card can be ejected safely.

Snapshot Quota: Set the capacity proportion of captured pictures on the SD card.

Video Quota: Set the capacity proportion of record files on the SD card.

- **Schedule Recording Settings**

1. Go to Config→System→Storage→Record to go to the interface as shown below.

Management	Record	Snapshot
Record Parameters		
Record Stream	Main	
Pre Record Time	No Pre Record (H264,H265,MJPEG)	
Cycle Write	Yes	
Timing		
☒ Enable Schedule Record		

2. Set record stream, pre-record time, cycle writing.

Pre Record Time: Set the time to record before the actual recording begins.

3. Set schedule recording. Check “Enable Schedule Record” and set the schedule.

☐ Erase ☒ Add

Week Schedule

Sun.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

00:00-24:00

Manual Input

Mon.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

00:00-24:00

Manual Input

Tue.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

00:00-24:00

Manual Input

Wed.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

00:00-24:00

Manual Input

Thu.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

00:00-24:00

Manual Input

Fri.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

00:00-24:00

Manual Input

Sat.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

00:00-24:00

Manual Input

Holiday Schedule

Date

07-12

Add

Delete

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

00:00-24:00

Manual Input

Weekly schedule

Set the alarm time from Monday to Sunday for a single week. Each day is divided in one hour increments. Green means scheduled. Blank means unscheduled.

“Add”: Add the schedule for a special day. Drag the mouse to set the time on the timeline.

“Erase”: Delete the schedule. Drag the mouse to erase the time on the timeline.

Manual Input: Click it for a specific day to enter specific start and end times. This adds more minutes.

Day schedule

Set the alarm time for alarm a special day, such as a holiday.

Note: Holiday schedule takes priority over weekly schedule.

● **Snapshot Settings**

Go to Config→System→Storage→Snapshot to go to the interface as shown below.

Management

Record

Snapshot

Snapshot Parameters

Image Format

JPEG

Resolution

704x576

Image Quality

Low

Event Trigger

Snapshot Interval

1

Second

Snapshot Quantity

5

Timing

☒ Enable Timing Snapshot

Snapshot Interval

5

Second

Set the format, resolution and quality of the image saved on the SD card and the snapshot interval and quantity and the timing snapshot here.

Snapshot Quantity: The number you set here is the maximum quantity of snapshots. The actual quantity of snapshots may be less than this number. Supposing the occurrence time of an alarm event is less than the time of capturing pictures, the actual quantity of snapshots is less than the set quantity of snapshots.

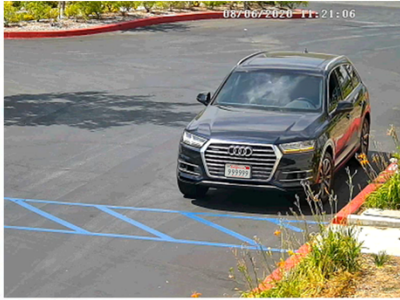
Timing Snapshot: Enable timing snapshot first and then set the snapshot interval and schedule. The setup steps of schedule are the same as the schedule recording (See [Schedule Recording](#)).

3.2 Image Configuration

Image Configuration includes Display, Video/Audio, OSD, Video Mask and ROI Config.

3.2.1 Display Configuration

Go to Image→Display interface as shown below. The image’s brightness, contrast, hue, and saturation for common, day and night mode can be set up separately. The image effect can be quickly seen by switching the configuration file.



Config File	Common	
Brightness	<input type="range"/>	25
Contrast	<input type="range"/>	50
Hue	<input type="range"/>	50
Saturation	<input type="range"/>	50
Sharpness	☐ <input type="range"/>	50
Noise Reduction	☐ <input type="range"/>	30
Defog	☐ <input type="range"/>	50
Auto Iris	☒ (disable without auto iris lens)	
BLC	Off	
HFR	Off	
Antiflicker	Off	
Smart IR	Off	
White Balance	Auto	
Frequency	50HZ	
Day/Night Mode	Auto	
Sensitivity	Mid	
Delay Time(Second)	<input type="range"/>	2
Infra-red Mode	Auto	
Exposure Mode	Auto	
Gain Limit	<input type="range"/>	50
Corridor Pattern	0	
Image Mirror	☐ Open ☒ Close	
Image Flip	☐ Open ☒ Close	

Brightness: Set the brightness level of the camera's image.

Contrast: Set the color difference between the brightest and darkest parts.

Hue: Set the total color degree of the image.

Saturation: Set the degree of color purity. The purer the color, the brighter the image is.

Sharpness: Set the resolution level of the image plane and the sharpness level of the image edge.

Noise Reduction: Decrease the noise and make the image more thorough. Increasing the value will make the noise reduction effect better but it will reduce the image resolution.

Defog: Activating this function and setting an appropriate value as needed in foggy, dusty, smoggy, or rainy environment to get clear images.

Backlight Compensation (BLC):

- Off: disables the backlight compensation function. It is the default mode.
- HWDR: WDR can adjust the camera to provide a better image when there are both very bright and very dark areas simultaneously in the field of view by lowering the brightness of the bright area and increasing the brightness of the dark area.

Recording will be stopped for a few seconds while the mode is changing from non-WDR to WDR mode.

- **HLC:** lowers the brightness of the entire image by suppressing the brightness of the image's bright area and reducing the size of the halo area.
- **BLC:** If enabled, the auto exposure will activate according to the scene so that the object of the image in the darkest area will be seen more clearly.

HFR: High Frame Rate. If “ON” is selected, the system will restart and then the maximum value of the frame rate of the mainstream can be set to 60 fps /50fps.

Antiflicker:

- **Off:** disables the anti-flicker function. This is used mostly in outdoor installations.
- **50Hz:** reduces flicker in 50Hz lighting conditions.
- **60Hz:** reduces flicker in 60Hz lighting conditions.

Smart IR: Choose “ON” or “OFF”. This function can effectively avoid image overexposure and underexposure by controlling the brightness of the IR lights according to the actual conditions to make the image more realistic. Please enable it as needed.

White Balance: Adjust the color temperature according to the environment automatically.

Frequency: 50Hz and 60Hz can be optional.

Day/Night Mode: Choose “Auto”, “Day”, “Night” or “Timing”.

Infra-red Mode: Choose “Auto”, “ON” or “OFF”.

Exposure Mode: Choose “Auto” or “Manual”. The digital shutter speed can be adjusted with manual.

Corridor Pattern: Corridor viewing modes can be used for situations such as long hallways. 0, 90, 180 and 270 are available. The default value is 0. The video resolution should be 1080P or below if this function is used.

Image Mirror: Turn the current video image horizontally.

Image Flip: Turn the current video image vertically.

Schedule Settings of Image Parameters:

Click the “Schedule” tab as shown below.

Camera Parameters

Schedule

Schedule

Full Time

Config File

Common

Set full time schedule for common, day, night mode and specified time schedule for day and night. Choose “Schedule” in the drop-down box of schedule as shown below.

Schedule

Timing

Time Range

0:00

4:00

8:00

12:00

16:00

20:00

24:00

Day

Night

Save

Drag “” icons to set the time of day and night. Blue means daytime and blank means night. If the current mode of camera parameters is set to schedule, the image configuration mode will automatically switch between day and night according to the schedule.

3.2.2 Video / Audio Configuration

Go to Image→Video / Audio interface as shown below. In this interface, set the resolution, frame rate, bitrate type, video quality and so on subject to the actual network condition.

Video

Audio

Index	Stream	Resolution	Frame	Bitrate Type	Bitrate(Kbps)	Video	I Frame	Video	Profile
1	Main stream	1920x1080	25	CBR	2048	Highest	100	H264	High Profile
2	Sub stream	704x576	25	CBR	768	Highest	100	H264	High Profile
3	Third stream	352x288	25	CBR	512	Higher	100	H264	High Profile

Send Snapshot

2

Size: (704x576)

☐ Video encode slice split

☐ Watermark (H264 , H265)

Watermark content:

Click the “Audio” tab to go to the interface as shown below.

Video

Audio

☒ Enable

Audio Encoding

G711A

Audio Type

LIN

Save

Three video streams can be adjustable.

Resolution: The size of image.

Frame rate: With a higher the frame rate the video is smoother.

Bitrate type: CBR and VBR are optional. Bitrate is related to image quality. CBR means that no matter how much change is seen in the video scene, the compression bitrate will be kept constant. VBR means that the compression bitrate will be adjusted according to scene changes. For example, for scenes that do not have much movement, the bitrate will be kept at a lower value. This can help optimize the network bandwidth usage.

Bitrate: Can be adjusted when the mode is set to CBR. The higher the bitrate, the better the image quality will be.

Video Quality: It can be adjusted when the mode is set to VBR. The higher the image quality, the more bitrate will be required.

I Frame interval: It determines how many frames are allowed between a “group of pictures”. When a new scene begins in a video, until that scene ends, the entire group of frames (or pictures) can be considered as a group of pictures. If there is not much movement in the scene,

setting the value higher than the frame rate is fine, potentially resulting in less bandwidth usage. However, if the value is set too high, and there is a high frequency of movement in the video, there is a risk of frame skipping.

Video Compression: MJPEG, H264+, H264, H264S (Smart H.264), H265, H265+ or H265S (Smart H.265) can be optional. MJPEG is not available for mainstream. If H.265/H.265+/ H.265S is chosen, make sure the client system is able to decode H.265/H.265+/ H.265S. Compared to H.265+/H.265, smart H.265 can spontaneously adjust the bitrate distribution according to the requirements of the actual scene. For example, when there is no human or vehicle detected, the bitrate will be automatically reduced with no effect on image quality by using H.265S. Compared to H.265, H.265+ saves more storage space with the same maximum bitrate in most scenes. Compared to H.264, H.265 reduces the transmission bitrate under the same resolution, frame rate and image quality.

Profile: For H.264, Baseline, main and high profiles are selectable.

Send Snapshot: How many snapshots to generate for an event.

Video encode slice split: If this function is enabled, a smooth image can be viewed even when using a low-performance PC.

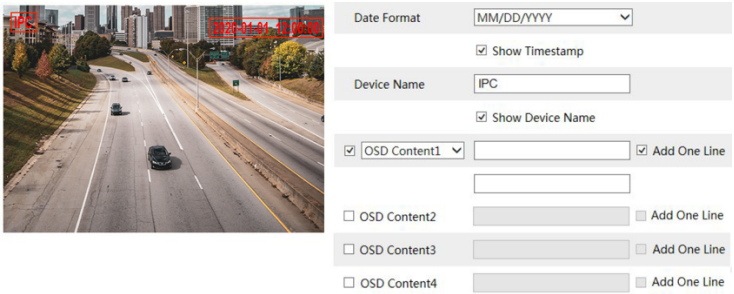
Watermark: When playing back the local recorded video in the search interface, the watermark can be displayed. To enable it, check the watermark box and enter the watermark text.

Audio Encoding: G711A and G711U are selectable.

Audio Type: LIN or MIC optional. MIC type is available for the model with built-in MIC interface.

3.2.3 OSD Configuration

Go to Image→OSD interface as shown below.



Set time stamp, device name, OSD content and picture overlap here. After enabling the corresponding display and entering the content, drag them to change their position. Then click the “Save” button to save the settings.



Date Format

☒ Show Timestamp

Device Name

☒ Show Device Name

☒ Picture Overlay

☐ OSD Content2

☐ OSD Content3

☐ OSD Content4

Picture Overlay Settings:
Check “OSD Content1”, choose “Picture Overlay” and click “Browse” to select the overlap picture. Then click “Upload” to upload the overlap picture. The pixel of the image should not exceed 200*200, or it cannot be uploaded.

3.2.4 Video Mask

Go to Image→Video Mask interface as shown below. A maximum of 4 zones can be set up.



- To set up video mask:
1. Enable video mask.
 2. Click the “Draw Area” button and then drag the mouse to draw the video mask area.
 3. Click the “Save” button to save the settings.
 4. Return to the live view to verify that the area has been drawn - as shown - as blocked out in the image.



To clear the video mask:
Click the “Clear” button to delete the current video mask area.

3.2.5 ROI Configuration

Go to Image→ROI Config interface as shown below. An area in the image can be set as a region of interest. This area will have a higher bitrate than the rest of the image, resulting in better image quality for the identified area.

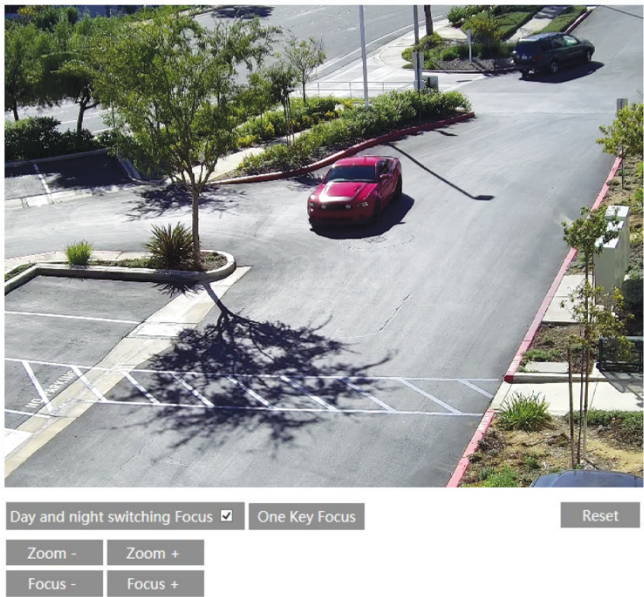


1. Check “Enable” and then click the “Draw Area” button.
2. Drag the mouse to set the ROI area.
3. Set the level.
4. Click the “Save” button to save the settings.



3.2.6 Lens Control

This function is only available for the model with motorized zoom lens. Within this section, zoom and focus can be controlled. If the image is out of focus after a manual adjustment, one key focus can be used to set the focus automatically. Go to Config→Image→ Zoom/Focus interface to set.



3.3 PTZ Configuration

This function is only available for the model with RS485 interface. It can be used with a compatible external PTZ enclosure. Go to PTZ→Protocol interface as shown below.

Protocol

PELCOD ▾

Address

1

Baud-Rate

2400 ▾

Save

3.4 Alarm Configuration

3.4.1 Motion Detection

Go to Alarm→Motion Detection to set motion detection alarm.

Alarm Config

Area and Sensitivity

Schedule

☒ Enable

Alarm Holding Time

5 Seconds ▾

Trigger Alarm Out

☐ Alarm Out

☐ Trigger Snap

☐ Trigger SD Recording

☐ Trigger Email

☐ Trigger FTP

Save

1. Check “Enable” check box to activate motion-based alarms. If unchecked, the camera will not send out any signals to trigger motion-based recording to the NVR or CMS, even if there is motion in the video.

Alarm Out: If selected, this would trigger an external relay output that is connected to the camera on detecting a motion-based alarm. (For the models with two alarm output interfaces, two alarm output can be selected.)

Trigger Snap: If selected, the system will capture images on motion detection and save the images on a SD card.

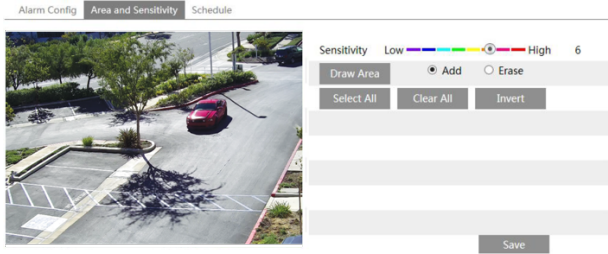
Trigger SD Recording: If selected, video will be recorded on a SD card on motion detection.

Trigger Email: If “Trigger Email” and “Attach Picture” are checked (email address must be set

first in the Email configuration interface), the captured pictures and triggered event will be sent to those addresses.

Trigger FTP: If “Trigger FTP” and “Attach Picture” are checked, the captured pictures will be sent to the FTP server address. Please refer to FTP configuration chapter for more details.

2. Set motion detection area and sensitivity. Click the “Area and Sensitivity” tab to go to the interface as shown below.



Move the “Sensitivity” scroll bar to set the sensitivity. Higher sensitivity value means that motion will be triggered more easily.

Select “Add” and click “Draw”. Drag the mouse to draw the motion detection area; Select “Erase” and drag the mouse to clear motion detection area.

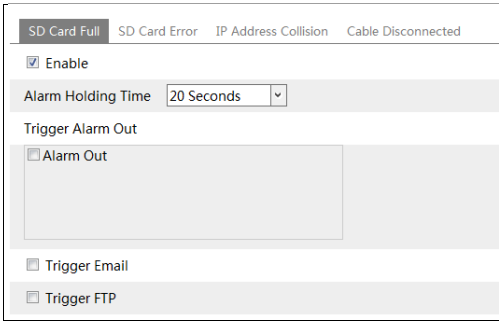
After that, click the “Save” to save the settings.

3. Set the schedule for motion detection. The schedule setup steps of the motion detection are the same as the schedule recording setup (See [Schedule Recording](#)).

3.4.2 Other Alarms

● SD Card Full

1. Go to Config→Alarm→Anomaly→SD Card Full.



2. Click “Enable” and set the alarm holding time.

3. Set alarm trigger options. The setup steps are the same as motion detection. Please refer to

motion detection chapter for details.

● **SD Card Error**

When there are errors in writing to the SD card, the corresponding alarms will be triggered.

1. Go to Config→Alarm→Anomaly→SD Card Error as shown below.

SD Card FullSD Card ErrorIP Address CollisionCable Disconnected

☒ Enable

Alarm Holding Time20 Seconds

Trigger Alarm Out

☐ Alarm Out

☐ Trigger Email

☐ Trigger FTP

2. Click “Enable” and set the alarm holding time.
3. Set alarm trigger options. Trigger alarm out, Email and FTP. The setup steps are the same as motion detection. Please refer to [motion detection](#) chapter for details.

● **IP Address Conflict**

1. Go to Config→Alarm→Anomaly→IP Address Collision as shown below.

SD Card FullSD Card ErrorIP Address CollisionCable Disconnected

☒ Enable

Alarm Holding Time20 Seconds

Trigger Alarm Out

☐ Alarm Out

☐ Trigger Email

☐ Trigger FTP

2. Click “Enable alarm” and set the alarm holding time.
3. Trigger alarm out. When the IP address of the camera is in conflict with the IP address of other devices, the system will trigger the alarm out.

● **Cable Disconnection**

1. Go to Config→Alarm→Anomaly→Cable Disconnected as shown below.

SD Card Full SD Card Error IP Address Collision Cable Disconnected

☒ Enable

Alarm Holding Time 20 Seconds

Trigger Alarm Out

☐ Alarm Out

2. Click “Enable” and set the alarm holding time.
3. Trigger alarm out. When the camera is disconnected, the system will trigger the alarm out.

3.4.3 Alarm In

To set sensor alarm (alarm in):
Go to Config→Alarm→Alarm In interface as shown below.

Alarm Config Schedule

☒ Enable

Alarm Type NO

Alarm Holding Time 20 Seconds

Sensor Name

Trigger Alarm Out

☐ Alarm Out

☐ Trigger Snap

☐ Trigger SD Recording

☐ Trigger Email

☐ Trigger FTP

1. Click “Enable” and set the alarm type, alarm holding time and sensor name.
2. Set alarm trigger options. The setup steps are the same as motion detection. Please refer to [motion detection](#) chapter for details.
3. Click “Save” button to save the settings.
4. Set the schedule of the sensor alarm. The setup steps of the schedule are the same as the schedule recording setup. (See [Schedule Recording](#)).

For the model with two alarm input interfaces, you must select the sensor ID first. Then set the relevant trigger items. Click “Apply settings to” to quickly apply the settings to the other alarm input.

Alarm ConfigSchedule

Sensor IDAlarm In1

Apply settings toAlarm In2

☒ Enable

Alarm TypeNO

Alarm Holding Time20 Seconds

Sensor Name

Trigger Alarm Out

☐ Alarm Out 0☐ Alarm Out 1

☐ Trigger Snap

☐ Trigger SD Recording

☐ Trigger Email

☐ Trigger FTP

Save

3.4.4 Alarm Out

This function is only available for some models. Go to Config→Alarm→Alarm Out.

Alarm Out IDAlarm Out0

Alarm Out ModeAlarm Linkage

Alarm Out NamealarmOut1

Alarm Holding Time20 Seconds

Alarm TypeNC

Save

Alarm Out ModeAlarm Linkage

Alarm Out NamealarmOut1

Alarm Holding Time20 Seconds

Alarm TypeNC

Save

Alarm Out ID: For the model with two alarm output interfaces, please select the alarm out ID first as shown in the above left picture.

Alarm Out Mode: Alarm linkage, manual operation, day/night switch linkage and timing are optional.

Alarm Linkage: Having selected this mode, select alarm out name, alarm holding time at the “Alarm Holding Time” drop down list box and alarm type.

Manual Operation: Having selected this mode, select the alarm type and click “Open” to trigger the alarm out immediately; click “Close” to stop alarm.

Alarm Out Mode	Manual Operation	▼
Alarm Type	NC	▼
Manual Operation	Open	Close
Save		

Day/Night Switch Linkage: Having selected this mode, select the alarm type and then choose to open or close alarm out when the camera switches to day mode or night mode.

Alarm Out Mode	Day/night switch linkage	▼
Alarm Type	NC	▼
Day	Close	▼
Night	Close	▼

Timing: Select the alarm type. Then click “Add” and drag the mouse on the timeline to set the schedule of alarm out; click “Erase” and drag the mouse on the timeline to erase the set time schedule. After this schedule is saved, the alarm out will be triggered in the specified time.

Alarm Out Mode	Timing	▼
Alarm Type	NC	▼
○ Erase ● Add		
Time Range	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 Manual Input	
Save		

3.4.5 Alarm Server

Go to Alarm→Alarm Server interface as shown below.
Set the server address, port, heartbeat, and heartbeat interval. When an alarm occurs, the camera will transfer the alarm event to the alarm server. If an alarm server is not needed, there is no need to configure this section.

Server Address		
Port	0	
Heartbeat	Disable	▼
Heartbeat interval	30	Second

3.5 Event Configuration

For more accuracy, here are some recommendations for installation.

- Cameras should be installed on stable surfaces, as vibrations can affect the accuracy of detection.
- Avoid pointing the camera at the reflective surfaces (like shiny floors, mirrors, glass, lake surfaces and so on).
- Do not aim the camera at the sun, road lamp or headlights of a car.
- Avoid places that have too much shadowing.
- At any time of day or night, please make sure the image of the camera is clear and with adequate and even light, avoiding overexposure or too much darkness on both sides.

3.5.1 Exception Settings

This function can detect changes in the surveillance environment affected by the external factors.

To set exception detection:

Go to Config→Event→Exception interface as shown below.

The screenshot shows the 'Exception Settings' interface. It has two tabs: 'Detection Config' and 'Sensitivity'. The 'Detection Config' tab is active. It contains several settings: 'Scene change detection' (checkbox), 'Video blur detection' (checkbox), 'Enable video color cast detection' (checkbox), 'Alarm Holding Time' (set to 20 Seconds), 'Trigger Alarm Out' (checkbox), 'Alarm Out' (checkbox), 'Trigger Snap' (checkbox), 'Trigger SD Recording' (checkbox), 'Trigger Email' (checkbox), and 'Trigger FTP' (checkbox). A 'Save' button is at the bottom right.

1. Enable the applicable detection that is desired.

Scene Change Detection: Alarms will be triggered if the scene of the monitor video has changed.

Video Blur Detection: Alarms will be triggered if the video becomes blurry.

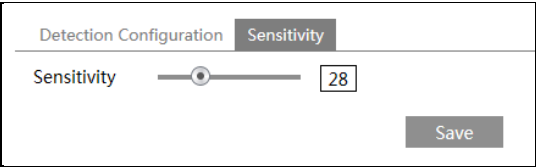
Enable Video Color Cast Detection: Alarms will be triggered if the video becomes obscured.

2. Set the alarm holding time and alarm trigger options. The setup steps are the same as motion detection. Please refer to motion detection chapter for details.

3. Click “Save” button to save the settings.

4. Set the sensitivity of the exception detection. Click “Sensitivity” tab to go to the interface as

shown below.



The screenshot shows a window titled "Detection Configuration" with a sub-tab "Sensitivity". Inside, there is a "Sensitivity" label, a slider control, and a text box containing the number "28". A "Save" button is located at the bottom right of the window.

Drag the slider to set the sensitivity value or directly enter the sensitivity value in the textbox. Click “Save” button to save the settings.

The sensitivity value of Scene Change Detection: The higher the value, the more sensitive the system responds to the amplitude of the scene change.

The sensitivity value of Video Blur Detection: The higher the value is, the more sensitive the system responds to the blurriness of the image.

The sensitivity value of Video Color Cast Detection: The higher the value is, the more sensitive the system responds to the obscuring of the image.

✳ **The requirements of camera and surrounding area**

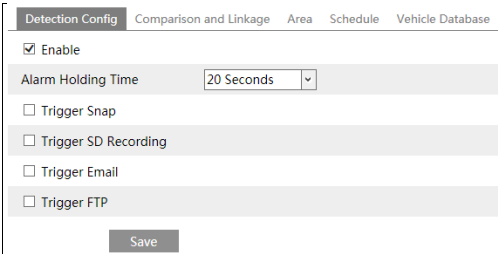
1. Auto-focusing function should not be enabled for exception detection.
2. Try not to enable exception detection when light changes greatly in the scene.
3. Please contact us for more detailed application scenarios.

3.5.2 ANPR (LPR) Settings

ANPR function is to detect and compare license plate numbers. Alarms will be triggered when a license plate is detected.

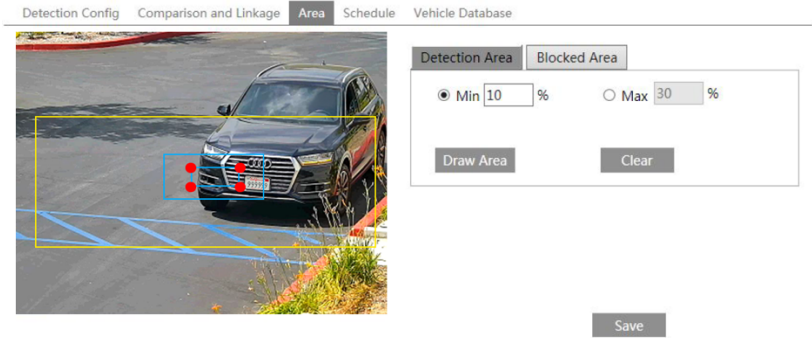
Vehicle license plate detection and comparison settings:

1. Go to Config→Event→ANPR as shown below.



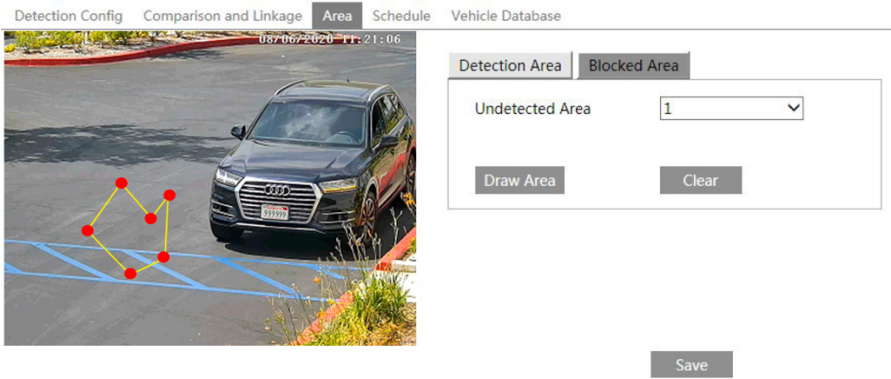
The screenshot shows a window titled "Detection Config" with tabs "Comparison and Linkage", "Area", "Schedule", and "Vehicle Database". The "Detection Config" tab is active. It contains a checked "Enable" checkbox, an "Alarm Holding Time" dropdown set to "20 Seconds", and four unchecked checkboxes: "Trigger Snap", "Trigger SD Recording", "Trigger Email", and "Trigger FTP". A "Save" button is at the bottom.

2. Enable ANPR.
3. Set alarm holding time and alarm trigger options. The alarm trigger setup steps are the same as motion detection setup. Please refer to [motion detection](#) chapter for details.
4. Set the alarm detection area and the blocked area.



To set the detection area:
Click “Draw Area” and drag the border lines of the rectangle to modify its size. Click “Stop Draw” to stop drawing the area. Click “Clear” to clear the area. Then set the detectable size by defining the maximum value and the minimum value (The default size range of a single number plate image occupies from 5% to 50% of the entire image).

To set the blocked area:
Select the number of the undetected area. Then click “Draw Area” to draw a closed area. Up to 4 areas can be set up. After you set the blocked area, this area will not be detected.



- 5.Set the schedule of the ANPR. The setup steps of the schedule are the same as schedule recording setup (See [Schedule Recording](#)).
6. Add vehicles to the vehicle Database. Click the vehicle database tab to go to the following interface.

Detection Config Comparison and Linkage Area Schedule **Vehicle Database**

Add Bulk Entry

Add

License plate number List Type

Start Time End Time

Owner License plate type

Save

License plate number List Type **Search** **Delete**

Index	License plate	Owner	License plate	List Type	Start Time	End Time	Operate
1	AB123	xxx		Unknown ve...	2019-10-08...	2019-10-08...	Delete Modify

● Add vehicles

Click “Add” to show a vehicle adding box as shown in the above figure. Enter the license plate number, select list type, start and end time, enter owner and license plate type. Then click “Save” to save the vehicle.

List type: unknown vehicle, allow list and block list can be selected.

Click “Bulk Entry” to add multiple vehicles at one time as shown below.

Detection Config Comparison and Linkage Area Schedule **Vehicle Database**

Add **Bulk Entry**

Bulk Entry

Path **Browse** **Upload**

1. License plate number is compulsory, a maximum of 12 characters supported.
2. Owner name is optional, a maximum of 12 characters supported.
3. The effective start time is optional; format: YYYY/MM/dd hh:mm:ss; time range is from 1970 to 2037.
4. The effective end time is optional; format: YYYY/MM/dd hh:mm:ss; time range is from 1970 to 2037.
5. Vehicle type is optional, a maximum of 12 characters supported.
6. List Type is compulsory, 1 stands for block list; 2 stands for allow list; 3 stands for unknown vehicle
Example [Download](#)

License plate number List Type **Search** **Delete**

Index	License plate	Owner	License plate	List Type	Start Time	End Time	Operate
-------	---------------	-------	---------------	-----------	------------	----------	---------

Please edit the vehicle information according to the requirements shown on the above interface. If you don’t know how to edit the file, click “Download” to download an example file and then follow the example to edit. After that, click “Browse” to choose the vehicle information file and click “Upload” to import all vehicle information.

● Search vehicles

After the vehicles are added, you can search them in the vehicle list. Enter the license plate number and list type and then click “Search” to search the added vehicle information. Click “Modify” to modify its information. Click “Delete” to delete this vehicle information.

7. Set the license plate comparison and alarm linkage. Click the “Comparison and linkage” tab to go to the following interface.

Detection Config

Comparison and Linkage

Area

Schedule

Vehicle Database

Allow fault character(s) of the plate number

0

Alarm List

Allow list

Trigger Alarm Out

☐ Alarm Out

Save

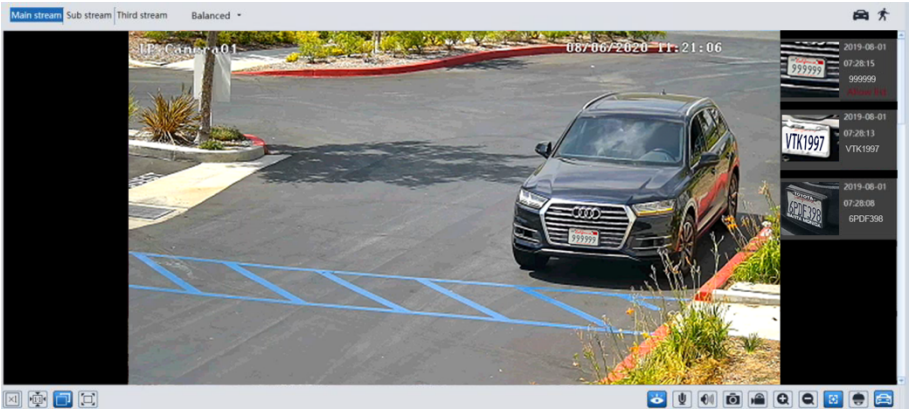
Set the fault tolerance, alarm list and check “alarm out”. Finally, click “Save” to save all the settings.

Allow fault character(s) of the plate number: up to 2 characters are allowed. For example, if “2” is selected, the captured license plate will be matched successfully and trigger the corresponding alarm even if there are 2 characters (or less) of the captured license plate not matched with the license plate of the alarm list.

Alarm list: Select a list as the comparison list. Allow list, block list or unknown vehicle can be optional.

Alarm out: if enabled, the system will trigger alarm output when the captured license plate is matched successfully.

After all above information is set, go to the live interface and click  to see the captured pictures as shown below.



When the captured license plate is matched with the license plate of the comparison list, the list

type will be displayed under the license plate number. Click the matched license plate picture, the matched details will pop up as shown below.

Detail information



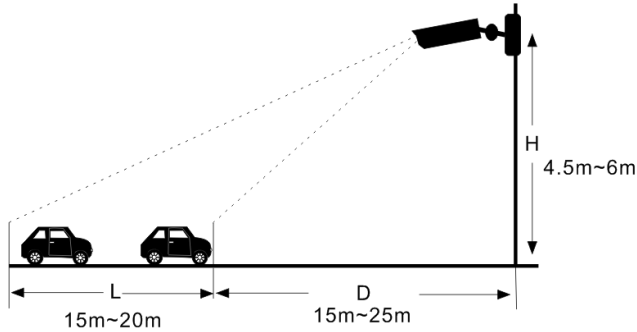
Time:	2020-01-01 12:00:00
License plate num	999999
List Type:	Allow list
Owner:	Sarah
Start Time:	2020-01-01 12:00:00
End Time:	2020-01-01 12:00:00

※ Configuration requirements of camera and surrounding area

- The monitoring image should try to cover the lane, entering/exiting vehicles and these vehicles' plate number should be always seen in the video.
- Try to avoid objects that will block the camera, such as pillars, obstacles, doors, etc.
- Avoid scenes with many trees or other moving objects (like humans, non-motor vehicles).
- The monitored road should be straight within 165 feet in front of/behind the location of the camera installation and make sure the camera points at the front or rear of the vehicle.

🚦 Crossroad monitoring:

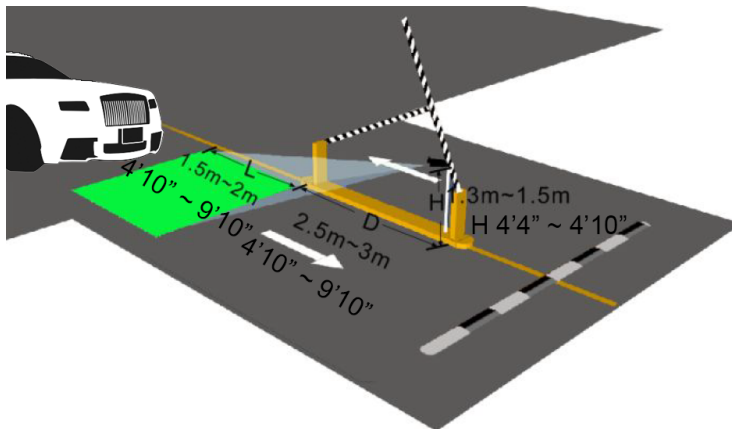
- The installation height (H) should range from 14.5' to 19.5'.
- The distance D (between the location of the camera installation and the captured area) should range from 50' to 80'. This distance (D) depends on the installation height, usually 3 or 4 times as far as the installation height (H).
- The distance of the captured area (L) should be from 50' to 65'.



- The depression angle of the camera should range from 10° to 15°.
- If the camera is installed on the side of the road, the pan angle of the camera should range from 0° to 20°.
- If the camera is installed right above the middle of the road, the pan angle of the camera should range from -10° to 20°.

Entrance & Exit Monitoring

- The installation height (H) should range from 4' to 5'.
- The distance D (between the location of the camera installation and the captured area) should range 8' to 10'.
- The distance of the captured area (L) should be from 5' to 6 ½'.

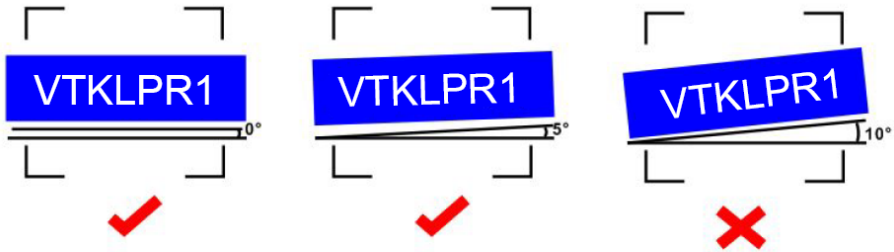


- The depression angle of the camera should range from 0° to 5°.
- The pan angle of the camera should range from 5° to 20°.

The tilt angle of the license plate

After the camera is installed, you can log in the web client and view whether the license plate tilts

in the video. The tilt angle should range from -5° to 5° .



If the captured license plate does not meet the above requirement, you can adjust the pan angle of the camera to correct it.

3.6 Network Configuration

3.6.1 TCP/IP

Go to Config→Network→TCP/IP interface as shown below. There are two ways for network connection.

IPv4	IPv6	PPPoE Config	IP Change Notification Config
☐ Obtain an IP address automatically			
☒ Use the following IP address			
IP Address	192.168.226.201		Test
Subnet Mask	255.255.255.0		
Gateway	192.168.226.1		
Preferred DNS Server	210.21.196.6		
Alternate DNS Server	8.8.8.8		

Use IP address (take IPv4 for example)-There are two options for IP setup: obtain an IP address automatically by DHCP and use the following IP address. Please choose one of the options as needed.

Test: Test the effectiveness of the IP address by clicking this button.

Use PPPoE-Click the “PPPoE Config” tab to go to the interface as shown below. Enable PPPoE and then enter the username and password from your ISP.

IPv4 IPv6 PPPoE Config IP Change Notification Config

☒ Enable

User Name xxxxxxxx

Password ●●●●●●

Save

Either method of network connection can be used. If PPPoE is used to connect internet, the camera will get a dynamic WAN IP address. This IP address will change frequently. To be notified, the IP change notification function can be used.

Click “IP Change Notification Config” to go to the interface as shown below.

IPv4 IPv6 PPPoE Config IP Change Notification Config

☐ Trigger Email

☐ Trigger FTP

Save

Trigger Email: when the IP address of the device is changed, the new IP address will be sent to the email address that has been set up.

Trigger FTP: when the IP address of the device is changed, the new IP address will be sent to FTP server that has been set up.

3.6.2 Port

Go to Config→Network→Port interface as shown below. HTTP port, Data port and RTSP port can be set.

HTTP Port	80
HTTPS Port	443
Data Port	9008
RTSP Port	554

HTTP Port: The default HTTP port is 80. It can be changed to any port which is not occupied.

HTTPS Port: The default HTTPs port is 443. It can be changed to any port which is not occupied.

Data Port: The default data port is 9008. Please change if necessary.

RTSP Port: The default port is 554. Please change if necessary.

3.6.3 Server Configuration

This function is mainly used for connecting network video management system.

☒ Enable

Server Port

Server Address

Device ID

Save

1. Check “Enable”.
2. Check the IP address and port of the transfer media server in the VMS. Then enable the auto report in the VMS when adding a new device. Next, enter the remaining information of the device in the VMS. After that, the system will automatically allot a device ID. Please check it in the VMS.
3. Enter the above-mentioned server address, server port and device ID in the corresponding boxes. Click the “Save” button to save the settings.

3.6.4 DDNS

If the camera is set up with a DHCP connection, DDNS should be set for the internet.

1. Go to Config→Network→ DDNS.

Port Server **DDNS** SNMP 802.1X RTSP UPnP Email FTP HTTPS QoS

☒ Enable

Server Type

Server Address

User Name

Password

Domain

Save

2. Apply for a domain name. Take www.vitekipddns.com for example.
Enter www.vitekipddns.com in the IE address bar to visit its website. Then Click the “Registration” button.

NEW USER REGISTRATION

USER NAME	xxxx
PASSWORD	•••••
PASSWORD CONFIRM	•••••
FIRST NAME	xxx
LAST NAME	xxx
SECURITY QUESTION.	My first phone number.
ANSWER	xxxxxxx
CONFIRM YOU'RE HUMAN	78408 New Captcha Enter the text you see above
Submit Reset	

Create domain name.

Domain Name Creation

Enter a new domain name below.

Domain name must start with (a-z, 0-9). Cannot end or start, but may contain a hyphen and is not case-sensitive.

Request Domain

☐ I'm not a robot


reCAPTCHA
Privacy - Terms

All Rights Reserved © 2015 vitekcccy.com

After the domain name is successfully applied for, the domain name will be listed as below.

My Domains

Your domain names are listed below. Choose create new domain to add additional domain names.

Search by Domain.

Search

Click a name to edit your domain settings.

NAME	STATUS	DOMAIN
l.xxx	✓	xxx-rtelkivddns.com
Last Update: Not yet updated IP Address: xxx.xxx.xxx.xxx		
NAME	STATUS	DOMAIN
l	✓	4.vitekipddns.com
Last Update: Not yet updated IP Address		

3. Enter the username, password, domain you apply for in the DDNS configuration interface.
4. Click the “Save” button to save the settings.

3.6.5 SNMP

To get camera status, parameters and alarm information and remotely manage the camera, the SNMP function can be used. Before using SNMP, please install an SNMP management tool and set the parameters of the SNMP, such as SNMP port, trap address.

1. Go to Config→Network→SNMP.

SNMP v1/v2	
☐ Enable SNMPv1	
☐ Enable SNMPv2	
Read SNMP Community	
Write SNMP Community	
Trap Address	
Trap Port	0
Trap community	
SNMP v3	
☐ Enable SNMPv3	
Read User Name	
Security Level	auth, priv
Authentication Algorithm	☒ MD5 ☐ SHA
Authentication Password	
Private-key Algorithm	☒ DES ☐ AES
Private-key Algorithm	
Write User Name	
Security Level	auth, priv
Authentication Algorithm	☒ MD5 ☐ SHA
Authentication Password	
Private-key Algorithm	☒ DES ☐ AES
Private-key Algorithm	
Other Settings	
SNMP Port	0

2. Check the corresponding version checkbox (Enable SNMPv1, Enable SNMPv2, Enable SNMPv3) according to the version of the SNMP software that will be used.

3. Set the values for “Read SNMP Community”, “Write SNMP Community”, “Trap Address”, “Trap Port” and so on. Please make sure the settings are the same as that of the SNMP software.

Note: Please use the different version in accordance with the security level you required. The

higher the version is, the higher the level of the security is.

3.6.6 802.1x

If it is enabled, the camera’s data can be protected. When the camera is connected to the network protected by the IEEE802.1x, user authentication is needed.

☒ Enable	
Protocol Type	EAP_MD5
EAPOL Version	1
User Name	test
Password	•••••
Confirm Password	•••••

To use this function, the camera should be connected to a switch supporting 802.1x protocol. The switch can be reckoned as an authentication system to identify the device in a local network. If the camera connected to the network interface of the switch has passed the authentication of the switch, it can be accessed via the local network.

Protocol type and EAPOL version: Please use the default settings.

Username and password: The username and password must be the same with the username and password applied for and registered in the authentication server.

3.6.7 RTSP

Go to Config→Network→RTSP.

☒ Enable	
Port	554
Address	rtsp://IP or domain name:port/profile1
	rtsp://IP or domain name:port/profile2
	rtsp://IP or domain name:port/profile3
Multicast address	
Main stream	239.0.0.0 50554 ☐ Automatic start
Sub stream	239.0.0.1 51554 ☐ Automatic start
Third stream	239.0.0.2 52554 ☐ Automatic start
Audio	239.0.0.3 53554 ☐ Automatic start
☐ Allow anonymous login (No username or password required)	
Save	

Select “Enable” to enable the RTSP function.

Port: Access port of the streaming media. The default number is 554.

RTSP Address: The RTSP address (unicast) format that can be used to play the stream in a media player.

Multicast Address

Main stream: The address format is

“rtsp://IP address: rtsp port/profile1?transportmode=mcast”.

Sub stream: The address format is

“rtsp://IP address: rtsp port/profile2?transportmode=mcast”.

Third stream: The address format is

“rtsp://IP address: rtsp port/profile3?transportmode=mcast”.

Audio: Having entered the main/sub stream in a VLC player, the video and audio will play automatically. If “Allow anonymous login...” is checked, there is no need to enter the username and password to view the video. If “auto start” is enabled, the multicast received data should be added into a VLC player to play the video.

Note: 1. This camera support local play through a VLC player. Enter the RTSP address (unicast or multicast, e.g. rtsp://192.168.226.201:554/profile1?transportmode=mcast) in a VLC player to realize the simultaneous play with the web client.

2. The IP address mentioned above cannot be the address of IPv6.

3. Avoid the use of the same multicast address in the same local network.

4. When playing the video through the multicast streams in a VLC player, please pay attention to the mode of the VLC player. If it is set to TCP mode, the video cannot be played.

5. If the coding format of the video of the mainstream is MJPEG, the video may be disordered at some resolutions.

3.6.8 UPNP

If this function is enabled, the camera can be quickly accessed through the LAN.

Go to Config→Network→UPnP. Enable UPnP and then enter UPnP name.

☒ Enable

UPnP Name

Save

3.6.9 Email

If you need to trigger Email when an alarm happens or IP address is changed, please set the Email here first. Go to Config→Network →Email.

Sender

Sender Address

XXX@126.com

User Name

XXX@126.com

Password

Server Address

smtp.126.com

Secure Connection

Unnecessary

SMTP Port

25

Default

☐ Send Interval(S)

0

(0-3600)

Clear

Test

Recipient

XXXX@126.com

Recipient Address

Add

Delete

Save

Sender Address: sender’s e-mail address.

Username and password: sender’s user name and password.

Server Address: The SMTP IP address or host name.

Select the secure connection type at the “Secure Connection” pull-down list according to what is required.

SMTP Port: The SMTP port.

Send Interval(S): The time interval of sending email. For example, if it is set to 60 seconds and multiple motion detection alarms are triggered within 60 seconds, they will be considered as only one alarm event and only one email will be sent. If one motion alarm event is triggered and then another motion detection alarm event is triggered after 60 seconds, two emails will be sent. When different alarms are triggered at the same time, multiple emails will be sent separately.

Click the “Test” button to test the connection of the account.

Recipient Address: receiver’s e-mail address.

3.6.10 FTP

After an FTP server is set up, captured pictures from events will be uploaded to the FTP server. Go to Config→Network →FTP.

PortServerDDNSSNMPRTSPUPnPEmailFTP

Server Name	Server Address	Port	User Name	Upload Path
Add FTP Server Name Server Address Upload Path Port User Name Password Example/Dir/folder 21 ☐ Anonymous OK Cancel				
Add Modify Delete Test Save				

- Server Name:** The name of the FTP server.
- Server Address:** The IP address or domain name of the FTP.
- Upload Path:** The directory where files will be uploaded to.
- Port:** The port of the FTP server.
- Username and Password:** The username and password that are used to login to the FTP server.

3.6.11 HTTPS

HTTPS provides authentication of the web site and protects user privacy.
Go to Config →Network→HTTPS as shown below.

☒ Enable

Certificate installed	
Attribute	C=CN, ST=GD, L=SZ, O=embeddedsoftware Issued to: C=CN, ST=GD, L=SZ, O=embeddedsoftware, OU=IPC, H=localhost, E=com.cn, Issuer: C=CN, ST=GD, L=SZ, O=embeddedsoftware, OU=IPC, H=localhost, E=com.cn, Validity date: 2017-07-26 01:02:07 ~ 2022-07-26 01:02:07

Save

There is a certificate installed by default as shown above. Enable this function and save it. Then the camera can be accessed by entering https://IP: https port via the web browser (e.g. https://192.168.226.201:443).
A private certificate can be created if users do not want to use the default one. Click “Delete” to cancel the default certificate. Then the following interface will be displayed.

☐ Enable

Installation type

☒ Have signed certificate, install directly

☐ Create a private certificate

☐ Create a certificate request

Install certificate

Browse

Install

Save

- * If there is a signed certificate, click “Browse” to select it and then click “Install” to install it.
- * Click “Create a private certificate” to enter the following creation interface.

☐ Enable

Installation type

☐ Have signed certificate, install directly

☒ Create a private certificate

☐ Create a certificate request

Create a private certificate

Create

Save

Click the “Create” button to create a private certificate. Enter the country (only two letters available), domain (camera’s IP address/domain), validity date, password, province/state, region and so on. Then click “OK” to save the settings.

- * Click “Create a certificate request” to enter the following interface.

☐ Enable

Installation type

☐ Have signed certificate, install directly

☐ Create a private certificate

☒ Create a certificate request

Create a certificate request

Create

Download

Delete

Click “Create” to create the certificate request. Then download the certificate request and submit it to the trusted certificate authority for signature. After receiving the signed certificate, import the certificate to the device.

3.6.12 P2P (Optional)

If this function is enabled, the network camera can be quickly accessed by adding the device ID in mobile surveillance client or VMS client via WAN. Enable this function by going to Config→Network→P2P interface.

☒ P2P

Save

3.6.13 QoS

QoS (Quality of Service) function is used to provide different quality of services for different network applications. With the deficient bandwidth, the router or switch will sort the data streams and transfer them according to their priority to solve the network delay and network congestion by using this function.

Go to Config→Network→QoS.

Video/Audio DSCP	13
Alarm DSCP	35
Manager DSCP	53

Video/Audio DSCP: The range is from 0 to 63.

Alarm DSCP: The range is from 0 to 63.

Manager DSCP: The range is from 0 to 63.

Generally speaking, the larger the number is, the higher the priority is.

3.7 Security Configuration

3.7.1 User Configuration

Go to Config→Security→User interface as shown below.

AddModifyDelete			
Index	User Name	User Type	Binding MAC
1	admin	Administrator	

Add user:

1. Click the “Add” button to pop up the following textbox.

Add User

User Name

Password

Level

9~15 characters, including at least two of the following categories: numbers, special characters, upper case letters, lower case letters.

Confirm Password

User Type

Administrator

Bind MAC

00:00:00:00:00:00

☐

OK

Cancel

2. Enter username in the “Username” textbox.
3. Enter the password in the “Password” and “Confirm Password” textbox. Please set the password according to the requirement of the password security level (Go to Config→Security→Security Management→Password Security interface to set the security level).
4. Choose the user type. Administrator has all permissions. Normal user can only view live video. Advanced user has the same permissions as an Administrator except for; user, backup settings, factory reset, and upgrading the firmware.
5. Enter the MAC address of the PC in the “Bind MAC” textbox.
If this option is enabled, only the PC with the specified MAC address can access the camera for that user.
6. Click the “OK” button and then the newly added user will be displayed in the user list.

Modify user:

1. Select a user to modify password and MAC address if necessary, in the user configuration list box.
2. The “Edit user” dialog box pops up by clicking the “Modify” button.

Edit User

☒ Modify Password

User Name

admin

Old Password

New Password

Level

9~15 characters, including at least two of the following categories: numbers, special characters, upper case letters, lower case letters.

Confirm Password

Bind MAC

00:00:00:00:00:00

☐

OK

Cancel

- 3. Enter the old password of the user in the “Old Password” text box.
 - 4. Enter the new password in the “New password” and “Confirm Password” text box.
 - 5. Enter computer’s MAC address as necessary.
 - 6. Click the “OK” button to save the settings.
- Note:** To change the access level of a user, the user must be deleted and added again with the new access level.

Delete user:

- 1. Select the user to be deleted in the user configuration list box.
 - 2. Click the “Delete” button to delete the user.
- Note:** The default administrator account cannot be deleted.

3.7.2 Online User

Go to Config→Security→Online User to view the user who is viewing the live video.

Index	Client Address	Port	User Name	User Type	
1	192.168.17.232	55760	admin	Administrator	Kick Out

An administrator user can kick out all the other users (including other administrators).

3.7.3 Block and Allow Lists

Go to Config→Security→Block and Allow Lists as shown below.

IP/MAC Address Filter Settings

☒ Enable address filtering

☒ Block the following address ☐ Allow the following address

Add

Delete

0.0.0.0

☒ IPv4 ☐ IPv6 ☐ MAC

Save

The setup steps are as follows:
Check the “Enable address filtering” check box.
Select “Block/Allow the following address”, IPv4/IPv6/MAC and then enter IP address or MAC address in the address box and click the “Add” button.

3.7.4 Security Management

Go to Config→Security→Security Management as shown below.

Security Service

Password Security

☒ Enable "locking once illegal login" function

Save

To prevent against malicious password unlocking, “locking once illegal login” function can be enabled here. If this function is enabled, login failure after trying six times will make the login interface locked. The camera can be logged in again after a half hour or after the camera reboots. For some specified versions, anonymous login with a private protocol can be enabled here. If this function is enabled, enter `http://host:port/Anonymous/1[2/3]` (e.g. `http://192.168.226.201:80/Anonymous/1`) via web browser to access the camera. 1 indicates mainstream; 2 indicates sub stream; 3 indicates third stream. Only video can be viewed by this means and no other operations can be done. If no such function, please skip the instruction.

● Password Security

Security Service

Password Security

Password Level

Weak

▼

Expiration Time

Never

▼

Please set the password level and expiration time as needed.

Password Level: Weak, Medium, or Strong.

Weak level: Numbers, special characters, upper or lower case letters can be used. You can choose one of them or any combination of them when setting the password.

Medium Level: 9~15 characters, including at least two of the following categories: numbers, special characters, upper case letters and lower-case letters.

Strong Level: 9~15 characters. Numbers, special characters, upper case letters and lower-case letters must be included.

For your account security, it is recommended to set a strong password and change your password regularly.

3.8 Maintenance Configuration

3.8.1 Backup and Restore

Go to Config→Maintenance→Backup & Restore.

Import Setting

Path

Browse

Import Setting

Export Settings

Export Settings

Default Settings

Keep

☐ Network Config

☐ Security Configuration

☐ Image Configuration

Load Default

● **Import & Export Settings**

Configuration settings of the camera can be exported from a camera into another camera.

1. Click “Browse” to select the save path for import or export information on the PC.
2. Click the “Import Setting” or “Export Setting” button.

● **Default Settings**

Click the “Load Default” button to restore all system settings to the default factory settings except those you want to keep.

3.8.2 Reboot

Go to Config→Maintenance→Reboot.

Click the “Reboot” button to reboot the device.

Timed Reboot Setting:

If necessary, the camera can be set up to reboot on a time interval. Enable “Time Settings”, set the date and time and then click the “Save” button to save the settings.

3.8.3 Upgrade

Go to Config→Maintenance→Upgrade. In this interface, the camera firmware can be updated.

Local upgrade

Path

Browse

Upgrade

1. Click the “Browse” button to select the save path of the upgrade file

2. Click the “Upgrade” button to start upgrading the firmware.
3. The device will restart automatically

Caution! Do not close the browser or disconnect the camera from the network during the upgrade.

3.8.4 Operation Log

To query and export log:

1. Go to Config→Maintenance→Operation Log.

Main Type:
Sub Type:

Start Time:
End Time:

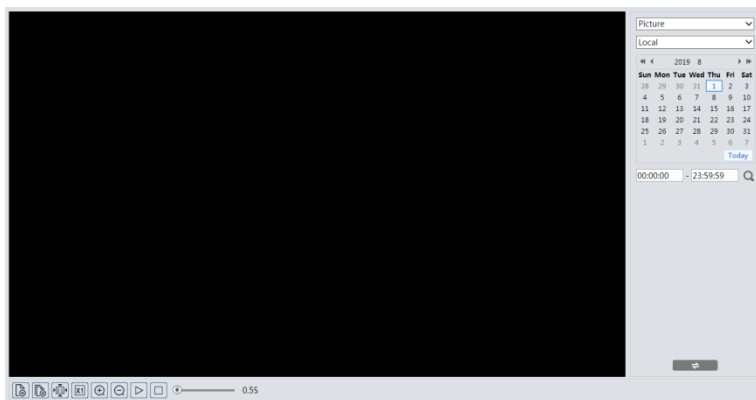
Index	Time	Main Type	Sub Type	User Name	Login IP
1	2015-07-14 11:15:18	Operation	Log in	admin	192.168.12.53
2	2015-07-14 11:12:02	Exception	Disconnected		192.168.12.53
3	2015-07-14 19:12:17	Exception	Disconnected		192.168.12.52

2. Select the main type, sub type, start and end time.
3. Click “Search” to view the operation log.
4. Click “Export” to export the operation log.

4 Search

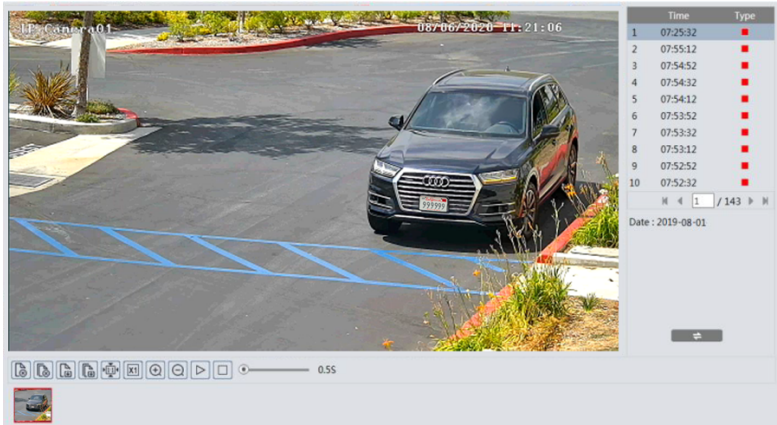
4.1 Image Search

Click Search to go to the interface as shown below. Images that are saved on the SD card can be found [here](#).



● Local Image Search

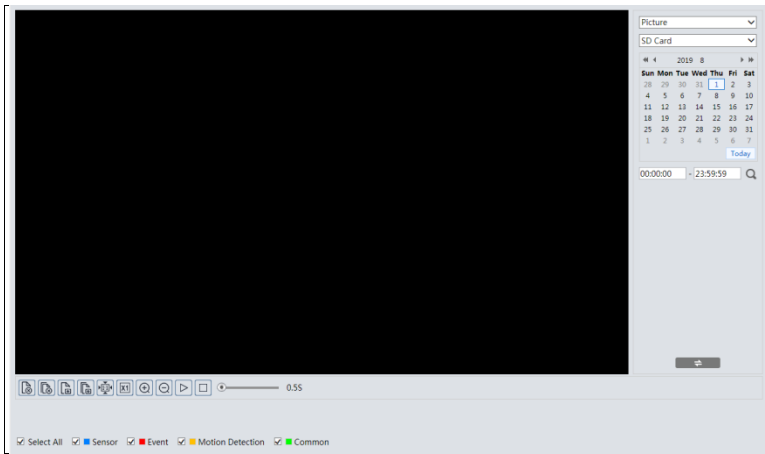
- 1. Choose “Picture”—“Local”.
- 2. Set time: Select date and choose the start and end time.
- 3. Click  to search the images.
- 4. Double click a file name in the list to view the captured photos as shown below.



Click  to return to the previous interface.

● SD Card Image Search

- 1. Choose “Picture”—“SD Card”.



- 2. Set time: Select date and choose the start and end time.
- 3. Choose the alarm events at the bottom of the interface.

- 4. Click  to search the images.
 - 5. Double click a file name in the list to view the captured photos.
- Click  to return to the previous interface.

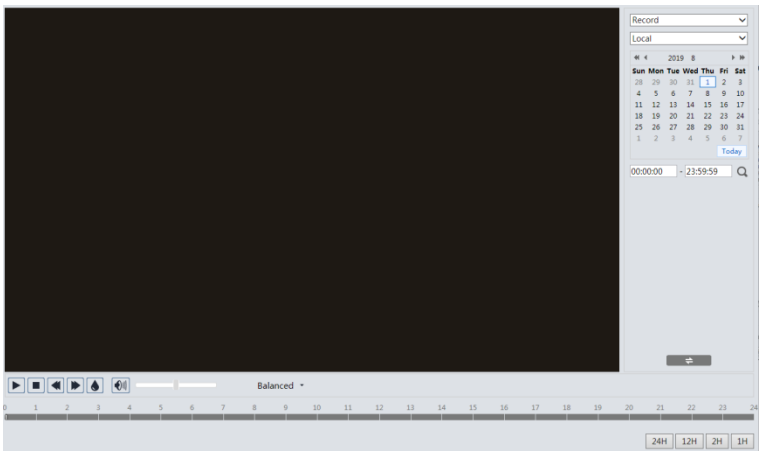
The descriptions of the buttons are shown as follows.

Icon	Description	Icon	Description
	Close: Select an image and click this button to close the image.		Close all: Click this button to close all images.
	Save: Click this button to select the path for saving the image on the PC.		Save all: Click this button to select the path for saving all pictures on the PC.
	Fit size: Click to fit the image on the screen.		Actual size: Click this button to display the actual size of the image.
	Zoom in: Click this button to digitally zoom in.		Zoom out: Click this button to digitally zoom out.
	Slide show play: Click this button to start the slide show mode.		Stop: Click this button to stop the slide show.
	Play speed: Play speed of the slide show.		

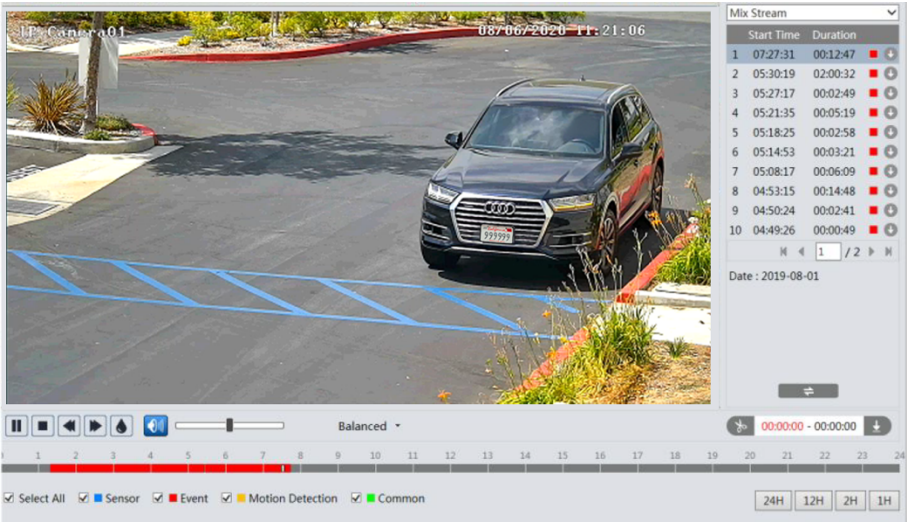
4.2 Video Search

4.2.1 Local Video Search

Click Search to go to the interface as shown below. Videos were recorded locally to the PC can be played in this interface.



- 1. Choose “Record”—“Local”.
- 2. Set search time: Select the date and choose the start and end time.
- 3. Click  to search the images.
- 4. Double click on a file name in the list to start playback.



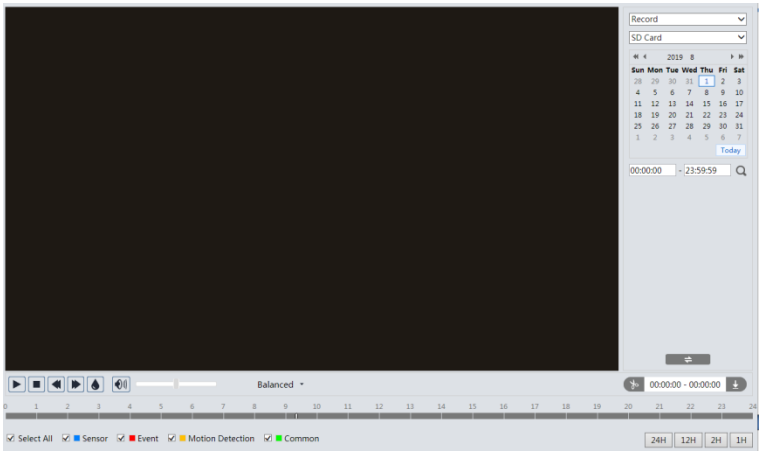
Icon	Description	Icon	Description
	Play button. After pausing the video, click this button to continue playing.		Pause button
	Stop button		Speed down
	Speed up		Watermark display
	Enable / disable audio; drag the slider to adjust the volume after enabling audio.		

4.2.2 SD Card Video Search

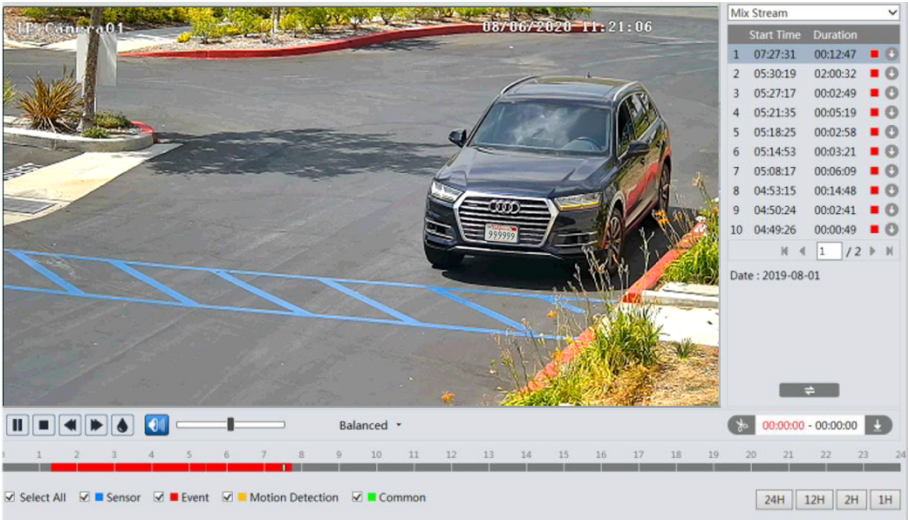
Click Search to go to the interface as shown below. Videos that were recorded on the SD card can be played in this interface.

- 1. Choose “Record”—“SD Card”.

- 2. Set search time: Select the date and choose the start and end time.
- 3. Click  to search the images.



- 4. Select the alarm events at the bottom of the interface.
- 5. Select mix stream (video and audio stream) or video stream as needed.
- 6. Double click on a file name in the list to start playback.



The time table can be shown in 24H/12H/2H/1H format by clicking the corresponding buttons.
Video clip and downloading

- 1. Search the video files according to the above mentioned steps.
- 2. Select the start time by clicking on the time table.

- 3. Click  to set the start time and then this button turns blue ().
- 4. Select the end time by clicking on the time table. Then click  to set the end time.
- 5. Click  to download the video file in the PC.

Index	Process	Record	Start Time	End Time	Path	Operate
1	100%	Cut	2019-08-01 01:1...	2019-08-01 01:1...	Favorites	Open

Set up

D:\Favorites

Clear List

Close

- Click “Set up” to set the storage directory of the video files.
- Click “Open” to play the video.
- Click “Clear List” to clear the downloading list.
- Click “Close” to close the downloading window.

NOTES

DETAILED SPECIFICATIONS: VTC-TNB4LPRN



Image Sensor	1/1/8" 4.0 MegaPixel Progressive Scan CMOS
Image Size	4 MegaPixel (2560 × 1520)
Electronic Shutter	Manual or Auto, Manual: 1 / 1 s ~ 1 / 100000s
Resolution	4 MP (2592 × 1520) / 3 MP (2304 × 1296) / 1080P (1920 × 1080) / 720P (1280 × 720) / D1/CIF (480 × 240)
Min. Illumination	0.001 lux@F1.6, AGC ON, 0 lux with IR
Lens	8~32mm Mtrzd Varifocal @F1.6, motorized
FOV	Horizontal: 41°~15.5°, Vertical: 23°~9.5°, Diagonal: 46.5°~18°
Lens Mount	Integrated
Recommended ANPR	23~99' (7-30M)
Other Features	BLC, HLC, Defog
WDR	120dB True WDR
DNR	XD DNR (3D-DNR / 2D-DNR)
S/N Ratio	>50Db
Angle Adjustment	Pan: 0°~360°, Tilt:0°~90°, Rotation: 0°~360°
IR	Matrix (2)
IR Distance	325'
Video Compression	Main stream: H.265+ / H.265 / H.264+ / H.264 Sub stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG
Main Stream	4MP/2K/3MP/1080P (60Hz :1 ~ 30fps; 50Hz : 1 ~ 25fps) HFR Mode: 1080P/720P (60Hz: 1~60fps; 50Hz: 1~50fps)
Sub Stream	720P/D1/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	G.711A / G.711U
Image Settings	ROI, Saturation, Brightness, Hue, Contrast,Wide Dynamic, Sharpness, Image Mirror, Image Flip, Noise Reduction - Image Settings Adjustable through Client Software or Web Browser
ROI	Each ROI to be configured separately
Network	100M RJ 45
Video Output	CVBS Output (BNC × 1)
Audio	1CH Audio Input, 1CH Audio Output*

*Please research local, state and federal laws regarding the implementation of audio surveillance.

DETAILED SPECIFICATIONS CONT'D: VTC-TNB4LPRN



Storage	Built-in microSD Card Slot - up to 256GB, Network Remote Storage
Reset	YES
Alarm	1CH Alarm Input, 1CH Alarm Output
RS485	YES
Wiegand	YES - Supports Wiegand Protocol for Advanced Access Control Integrations [In or Out Configurable]
Remote Viewing	VMS / Web Browser / Mobile (iOS/Android)
Supported Browsers	Internet Explorer, Chrome and Firefox with IE Tab, Edge in IE Mode
Online Connection	Support Simultaneous Monitoring for up to 10 Users, Support Multi-stream Real Time Transmission
Interface Protocol	ONVIF
Network Protocol	DP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTMP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, HTTP POST, 802.1x, UPnP, HTTPs, QoS
Smart Alarm	Motion Detection, Sensor Alarm, SD Card Error, SD Card Full, IP Address Conflict, Cable Disconnection
Intelligent Analytics	License Plate Recognition, Vehicle Type Detection, Video Exception Detection
General Functions	Watermark, Video Mask, Operational Diagnostic [Heartbeat], Corridor Mode
Security	Video Encryption, Firmware Encryption, HTTPs Encryption, Configuration Encryption, Illegal Login Lock, IP Address Filtering, 802.1x Authentication, Basic and Digest Authentication for HTTP/HTTPs
POE (Standard)	YES (IEEE802.3af)
Ingress Protection	IP67
LPR Snapshot	Overview and Cutout of Plate for Picture
License Plate Database	White list up to 10,000
OSD Features	Snapshot Time, Location, License Plate Information
Capture Speed Range	0-70m/h (0-120km/h) <i>*Dependent on Installation</i>
Power Supply	DC12V/AC24V/PoE
Power Consumption	<12W
Operating Environment	-22°F~140°F (-30°C ~ 60°C) Humidity: less than 95 % (non-condensing)
Storage Environment	-22°F~149°F (-30°C ~ 65°C) Humidity: less than 95 % (non-condensing)
Dimensions	10.96" × 3.95" × 3.49" (278.3mm × 100.2mm × 88.7mm)
Weight Net (Shipping)	2.59lbs / 1176g (3.03lbs / 1376g)
Installation Options	Ceiling Mounting, Wall Mounting

Suggested Accessories and Recommended Products for VTC-TNB4PRLN



Accessories



VT-TJB01

Optional Junction Box for Use with Select Transcendent Bullet Cameras including VTC-TNB4LPRN



VT-TPLMT

Transcendent Universal Pole Mount - reqs. VT-TJB01



VT-TCNMT

Transcendent Universal Corner Mount reqs. VT-TJB01

Recorders



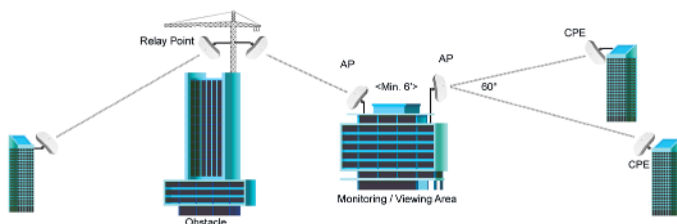
Pair with one of several VITEK

Transcendent Series Network or Digital Recorders offering a Myriad of Advanced Analytic Functions and Applications!

See www.vitekcctv.com for More!

Also Consider Vitek Wireless Access Points to Reduce Cable Installation Costs!

VT-WAP1150 and VT-WAP2150 High Speed 5.8GHz DIP AP/CPE Wireless Bridge w/ 8MB Storage, 64MB RAM, 150Mbps transmission, and Point-to-Multi-Point (P2MP) Topology



*WAP units drastically increased in scale for demo purposes

With high speed transmission of 150Mbps and a wireless range of **3000ft.** (VT-WAP1150) and **1.25 miles** (VT-WAP2150) these products eliminate the need for expensive and troublesome long-distance cables in areas where CCTV monitoring and rigorous surveillance take place. These small, lightweight and durable units are easy to install and easy to use with an innovative and straightforward 10-button plug-and-play dip switch that facilitates the creation of a robust wireless network without a computer. Set-up can be simply configured for point-to-point or point-to-multipoint topology depending on the application, with up to 128 IP group configurations!



VT-WAP1150

VT-WAP2150

LIMITED PRODUCT WARRANTY

This VITEK product carries a three (3) year limited warranty. VITEK warrants to the purchaser that products manufactured by VITEK are free of any rightful claim of infringement or the like, and when used in the manner intended, will be free of defects in materials and workmanship for a period of three (3) years, or as otherwise stated above, from the date of purchase by the end user. This warranty is nontransferable and extends only to the original buyer or end user customer of a VITEK Authorized Reseller.

The product must have been used only for its intended purpose, and not been subjected to damage by misuse, willful or accidental damage, caused by excessive voltage or lightning.

The product must not have been tampered with in any way or the guarantee will be considered null and void.

This guarantee does not affect your statutory rights.

Contact your local VITEK Reseller should servicing become necessary.

VITEK makes no warranty or guarantee whatsoever with respect to products sold or purchased through unauthorized sales channels. Warranty support is available only if product is purchased through a VITEK Authorized Reseller.

CLASS A DIGITAL DEVICE (INDUSTRIAL & COMMERCIAL ENVIRONMENT)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to CE and FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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