# 如何配置 DS-TCG405-E/

## How to configure DS-TCG405-E

#### 1、相机安装/ Camera Installation

相机的安装高度在 1.3~1.7 米之间,最佳高度为 1.5 米 若安装高度低于 1.3 米,可能会因为车灯直接照射相机导致画面过曝 若安装高度高于 1.7 米,可能会因为相机和车牌的角度太大导致识别率下降 相机到车牌的距离在 3.5~5 米之间,最佳距离为 4 米,车牌像素在 25~35 之间 相机需要安装在道闸前方,避免杆子造成相机画面遮挡

The installation height of the camera is between 1.3 and 1.7 meters, and the best height is 1.5 meters

If the installation height is less than 1.3 meters, the picture may be overexposed because the headlights directly shine on the camera

If the installation height is higher than 1.7 meters, the recognition rate may be reduced because the Angle between the camera and the license plate is too large

The distance from the camera to the license plate is between 3.5 and 5 meters, the optimal distance is 4 meters, and the license plate pixels are between 25 and 35

The camera should be installed in front of the barrier to prevent the pole from blocking the camera live view





### 2、供电以及接线/ Power Supply and Wiring

①相机支持 POE 或者 DC12V 独立电源供电 The camera supports POE or 12V independent power supply



②道闸连接/ connection with barrier
Relay out 接口的 1A1B 对应的开闸端口, 2A2B 对应的落闸端口
1A1B connecting with Raising Control in barrier
2A2B connecting with Falling Control in barrier
③触发设备连接/ connection with trigger device
IO 接口接对应的触发设备(雷达或车检器)
IO port connecting with trigger device (radar or coil)



### 3、相机调试/ Camera Adjustment

#### (1)角度调整/ angle adjustment

相机安装之后, 登录相机预览界面, 将测试车辆停在触发位置或距离相机 4 米处, 通过调整 相机的角度, 使车牌位置在相机画面的下 1/3 处, 并尽量让车牌保持水平

After the camera is installed, log in to the camera preview interface and park the test vehicle at the trigger position or 4 meters away from the camera. Adjust the camera Angle so that the license plate position is in the lower 1/3 of the camera screen, and try to keep the license plate level



- (2) 焦距调整/ focal setting
- a) 在相机预览界面, 通过手动抓拍并打开抓拍图
- a) In the camera preview screen, manually capture the picture and open the picture



b) 右侧点击像素测量功能,测试车牌的字符高度,检查像素是否在 25~35 之间

b) Click the pixel measurement function on the right side to test the character height of the license plate and check whether the pixel is between 25 and 35



c) 进入相机焦距调整界面, 调整现场画面大小, 使车牌像素在 25~35 之间

c) Enter the camera focal length adjustment screen and adjust the size of the live picture to make the pixel between 25 and 35



### 4、版本信息以及程序升级/ Version Information and Program Upgrade

①系统配置中确认相机程序版本信息,反馈问题前先确认程序版本以及是否为基线程序 ①Confirm the version of the camera program in the system configuration, and confirm the version of the program and whether it is a baseline program before feedback

| MIKVISION DS-TCG405-E | Live View Playback Configurati       | Quick Configuration                 |
|-----------------------|--------------------------------------|-------------------------------------|
| 🖵 Local               | Basic Information Device Status Time | settings DST Serial Port            |
| System                | Basic Information                    |                                     |
| Maintenance           | Device N                             | ame IP CAPTURE CAMERA               |
| Security              | Device                               | No. 88                              |
| User Management       | Device                               | Type DS-TCG405-E                    |
| Network -             | Device Seria                         | No. DS-TCG405-E 20210703AIG29966189 |
|                       | Firmware Ve                          | sion V5.0.4 230320                  |
| Capture -             | Encoding Ve                          | sion V2.1 build 230315              |
| 🖬 Video 👻             | Hardware Ve                          | sion 0x8a6900                       |
| 🖃 Storage 💌           | Web Ve                               | sion V5.1.4.45021 build 230316      |
|                       | Plugin Ve                            | sion V5.1.21.0                      |
|                       | Number of Char                       | nels 1                              |
|                       | Number of Alarm I                    | aput 3                              |
|                       | Number of Alarm Ou                   | tput 1                              |
|                       | Smart Module S                       | atus Normal                         |

②抓拍参数中可以确认算法识别的区域,基线算法程序分为亚太、欧洲、中东和非美 ②The regions identified by the algorithm can be confirmed in the capture parameters. The baseline algorithm program is divided into Asian, Europe, Middle East and Africa&Latin America

| MIKVISION DS-TCG405-E | Live View Playb    | ack Configuration         | Quick Configuration         |              | 🛓 admin                        |
|-----------------------|--------------------|---------------------------|-----------------------------|--------------|--------------------------------|
| 🖵 Local               | License Parameters | Supplement Light Parame   | ters Vehicle Feature        | Text Overlay | Image Encoding and Composition |
| 🚍 System 👻            | License Parameter  | 5                         |                             |              |                                |
| Network 🔻             |                    | Country/Region            | Europe                      | ~            |                                |
| Capture 🔺             |                    | License Plate Recognition | <ul> <li>Forward</li> </ul> | Backward     | Bidirection                    |
| Application Mode      |                    |                           | Save                        |              |                                |
| Entrance and Exit     |                    |                           |                             |              |                                |
| Capture Parameters    |                    |                           |                             |              |                                |
| Capture Images        |                    |                           |                             |              |                                |
| Advanced              |                    |                           |                             |              |                                |
| 🖬 Video 👻             |                    |                           |                             |              |                                |
| 📑 Storage 🗸 🗸         |                    |                           |                             |              |                                |

③如现场程序不支持该区域的车牌识别,在系统维护中升级程序。

注意:升级路径不能包含中文

③If the camera version does not support license plate recognition in this area, upgrade the program during system maintenance

Note: The upgrade path cannot contain Chinese characters

| MIKVISION DS-TCG405-E       | Live View Playback Configuration         | Quick Configuration            | 1.   | admin [+ Logo         | ut 카는 Reboot         | 🛃 Plugin Download | About | E License |
|-----------------------------|--|--------------------------------|--|-----------------------|----------------------|-------------------|-------|-----------|
| 🖵 Local                     | Upgrade & Maintenance Log Search Secu    | rity Audit Log                 |  |                       |                      |                   |       |           |
| System                      | Device Maintenance                       |                                |  |                       |                      |                   |       |           |
| System Settings Maintenance | Device Reboot                            | Reboot                         |  |                       |                      |                   |       |           |
| Socurity                    | Simply Restore Device Parameters         | Restore                        | Reset all the parameters to the default settings, except | t the IP parameters a | nd user information. |                   |       |           |
| User Management             | Data Export                              | Restore Pactory settings       | residie die device to the factory infactive status.      |                       |                      |                   |       |           |
| Network                     | Configuring Parameters                   | Export                         |  |                       |                      |                   |       |           |
| Nideo -                     | Debug File                               | Export                         |  |                       |                      |                   |       |           |
| E Storage -                 | Upgrade (Note: Update the plug-in before | upgrade. The upgrade page      | kage is named as XX.dav.)                                |                       |                      |                   |       |           |
|                             | Firmware                                 |                                | · ·  | Browse                | Upgrade              |                   |       |           |
|                             | Note                                     | Do not turn off the power. The | device will reboot automatically after upgrade completes | k.                    |                      |                   |       |           |
|                             | Advanced Settings Display Details 🗸      |                                |  |                       |                      |                   |       |           |

### 5、应用模式/ Application Mode

①触发模式/ trigger type

根据现场设置正确的触发模式。

视频触发:无需触发设备,车辆经过车道线完成抓拍

IO 触发:需要雷达或线圈等触发设备,车辆经过雷达或线圈后触发抓拍,触发稳定 雷达混合触发:用于混合车道,并且使用了触发雷达和逻辑雷达来判断进出方向 Setting the correct trigger type according to the site.

Video detection: Without triggering device, the vehicle passes the lane line to complete the capture

IO coil: The need for radar or coil trigger device, the vehicle after the radar or coil trigger capture, the camera can trigger stability

Radar Mixed Traffic: Used for mixed lanes, and the trigger radar and logic radar are used to determine the direction of entry and exit

| WKVISION DS-TCG405-E | Live View Playback Configuration      | n Quick Configuration            | 🛓 admin 🕞 Logout 柒 Reboot 👍 Plugin Downlaad About 📰 License |
|----------------------|---------------------------------------|----------------------------------|---|
| 🖵 Local              |                                       |                                  |   |
| 🖂 System 👻           | Application Mode                      | Licence Plate Recognition System |   |
| 😔 Network 👻          | Work Mode:                            | License Plate Recognition System |   |
| 🖓 Capture 🔺          | License Plate Recognition System Mode |                                  | Recognition Area  |
| Application Mode     | Trigger Type                          | I/O Coll                         | Last of the T           |
| Entrance and Exit    | Picture Type                          | Video Detection                  |   |
| Capture Parameters   | Sence Mode                            | VO Coll                          |   |
| Capture Images       | Enable Non-motorised vehicle capture  | Radar Mixed Traffic              |   |
| Advanced             | Lane                                  |                                  |   |
| 🖬 Video 👻            | Total Lanes                           | 1 ~                              |   |
| 🔛 Storage 👻          | Lane1                                 |                                  | Lant  |
|                      | Linked Lane No.                       | 1                                | Trigger Line  |
|                      | I/O Trigger Default Status            | Falling Edge 🚽                   | Bartan  |
|                      | Linked I/O No.                        | 101 ~                            |   |
|                      |                                       |                                  | Draw Lane Line 🗸 Video Background                           |

#### ②车道线配置/ draw LPR area

车道线配置对于车牌识别非常重要,一定要根据现场实际场景绘制,禁止用默认区域或者随 意乱画

- a) 抓拍时, 车牌与车头本身必须在识别区域内部
- b) 识别区域包含抓拍前的轨迹区域;无关区域不要过分绘制,会影响识别速度

c)车道线和触发线形成的区域为检测区域

Lane configuration is very important for license plate recognition. It must be drawn according

to the actual scene, and it is forbidden to use the default area or random drawinga) When capturing, the license plate and the car itself must be inside the recognition areab) The recognition area includes the track area before capturing, do not overdraw irrelevant

areas, which will affect the recognition speed

c) The area formed by the lane line and trigger line is the detection area



## 6、出入口配置/ Entrance and Exits

### ①相机控制

若相机不添加到平台,可以通过相机的黑白名单设置开闸规则,需要将道闸的控制模式设置 为相机,由相机控制道闸

If the camera is not added to the platform, you can set the control rule through the blacklist or whitelist of the camera. You need to set the control mode of the gate by camera, means control barrier by camera

| HIKVISION DS-TCG406-E | Live View Playba     | ck Configuration             | Quick Configuration |   | 1 admin | E+ Logout | }∦ Reboot | 🚽 Plugin Download | About | 🖺 License |
|-----------------------|----------------------|------------------------------|---------------------|---|---------|-----------|-----------|-------------------|-------|-----------|
| 🖵 Local               | Barrier Gate Allowli | st and Blocklist Wiegar      | d Parameters        |   |         |           |           |                   |       | - 1       |
| 🗆 System 👻            |                      |                              |                     |   |         |           |           |                   |       | - 1       |
| Network •             | Barrier Gate         | Control Mode                 | By Camera 👻         |   |         |           |           |                   |       | - 1       |
| 20) Capture ▲         | Keep Barrier         | Open for Following Vehicle   | disable 👻           |   |         |           |           |                   |       | - 1       |
| Application Mode      | Lock Barrier (       | Sate for Large-Sized Vehicle |                     |   |         |           |           |                   |       | - 1       |
| Entrance and Exit     |                      | Parking Detection            |                     |   |         |           |           |                   |       |           |
| Capture Parameters    | Relay                |                              |                     |   |         |           |           |                   |       |           |
| Capture Images        |                      | Relay No.                    | Relay Function      |   |         |           |           |                   |       |           |
| Advanced              |                      | 1                            | Open                | ~ |         |           |           |                   |       |           |
| 🖬 Video 👻             |                      | 2                            | Close               | Ţ |         |           |           |                   |       |           |
| 🔛 Storage 👻           | Barrier Status       |                              |                     |   |         |           |           |                   |       | - 1       |
| 🖸 Event 👻             |                      | Barrier Gate Relation IO     | IO Function         |   |         |           |           |                   |       |           |
|                       |                      | 1                            | None                | ~ |         |           |           |                   |       | - 1       |
|                       |                      | 2                            | None                | ~ |         |           |           |                   |       |           |
|                       |                      | 3                            | None                | v |         |           |           |                   |       |           |

然后在车辆管理中设置临时车、黑名单车辆、白名单车辆的放行规则。在下方手动控制道闸 开关可以测试相机和道闸是否接线正常

Then set the control rules of temporary vehicles, black list vehicles and white list vehicles in vehicle management. Manually control the barrier close and open in below to test whether the camera and barrier are properly connected

| MIKVISION DS-TCG406-E | Live View Playbac  | k Configuration          | Quick Configuration        |                   |    | 👱 admin                  | E+ Logout            | }∦∈ Reboot | 🕁 Plugin Download | About | E License |
|-----------------------|--|--------------------------|----------------------------|-------------------|----|--------------------------|----------------------|------------|-------------------|-------|-----------|
| 🖵 Local               |  | Relay No.                |                            | Relay Function    |    |                          |                      |            |                   |       |           |
| 🗖 System 👻            |  | 1                        |                            | Open              | ~  |                          |                      |            |                   |       |           |
| Network •             |  | 2                        |                            | Close             | v  |                          |                      |            |                   |       |           |
| 🔝 Capture 🔺           | Barrier Status   |                          |                            |                   |    |                          |                      |            |                   |       |           |
| Application Mode      |  | Barrier Gate Relation IO |                            | IO Function       |    |                          |                      |            |                   |       |           |
| Entrance and Exit     |  | 1                        |                            | None              | v  |                          |                      |            |                   |       |           |
| Capture Parameters    |  | 2                        |                            | None              | v  |                          |                      |            |                   |       |           |
| Capture Images        |  | 3                        |                            | None              | v  |                          |                      |            |                   |       |           |
| Advanced              | Vehicle Information  | Management               |                            |                   |    |                          |                      |            |                   |       |           |
| 🗔 Video 🗸 🗸           |  | Vehicle Type             | Barrier Gate               |                   | Al | arm Operation            |                      |            |                   |       |           |
| El Storage 👻          |  | Temporary Vehicle        | <ul> <li>Not Op</li> </ul> | erate 🔘 Open Gate |    | 🖌 Upload via SDK 🔽 U     | pload to Alarm Ho    | ost        |                   |       |           |
| E Europi              |  | Vehicle of Blocklist     | <ul> <li>Not Op</li> </ul> | erate 🔿 Open Gate |    | 🖌 Upload via SDK 🔽 U     | pload to Alarm Ho    | ost        |                   |       |           |
|                       |  | Vehicle of Allowlist     | Not Op                     | erate 💿 Open Gate |    | 🖌 Upload via SDK 🔽 U     | pload to Alarm Ho    | ost        |                   |       |           |
|                       | Remote Barrier Gate  | Control                  |                            |                   |    |                          |                      |            |                   |       |           |
|                       |  | Barrier Gate No.         | Barrier Gate               | Operation         | Ba | arrier Status            |                      |            |                   |       |           |
|                       |  | 1                        | Close                      | Open Unlock       | Cł | neck whether the barrier | position signal is o | onnected.  |                   |       |           |
|                       |  |                          | Lock                       |                   |    |                          |                      |            |                   |       |           |
|                       | CH4kvision Digital Technology Co., Ltd. All Rights Reserved. |                          |                            |                   |    |                          |                      |            |                   |       |           |

### 最后在黑白名单管理中添加对应的车辆名单

| MIKVISION DS-TCG406- | E Live View  | Playback                | Configuration     | Quick Configuration  |    |          | 👤 admin | E+ Logout    | }∦: Reboot | 🚽 Plugin Download  | About | E License |
|----------------------|--------------|-------------------------|-------------------|----------------------|----|----------|---------|--------------|------------|--------------------|-------|-----------|
| 🖵 Local              | Barrier Gate | e Allowlist and         | Blocklist Wiegand | d Parameters         |    |          |         |              |            |                    |       |           |
| System               | - Allowlist  | Allowlist and Blocklist |                   |                      |    |          |         |              |            |                    |       |           |
| Network              | - Allowist   | and blocklist           |                   |                      |    |          | _       |              |            |                    |       |           |
| 🚑 Capture            | <b>^</b>     |                         | Filter by         | All Types            | ~  | Search   |         |              |            |                    |       |           |
| Application Mode     |              |                         | Delete Type       | License Plate Number | Ψ. |          |         |              |            |                    |       |           |
| Entrance and Exit    | + Add        | (1) Impor               | t X Delete All    |                      |    |          |         |              |            |                    |       |           |
| Capture Parameters   | No.          | License Plate           | Number            | Belong to \$         |    | Card No. |         | Start Time f | or Entry 💠 | End Time for Entry | ÷     | Op        |
| Capture Images       | 1            | W907066                 |                   | Allowlist            |    |          |         |              |            |                    |       | / ×       |
| Advanced             | 2            | WA16542                 |                   | Blocklist            |    |          |         |              |            |                    |       | / ×       |
| Video                | × 🚺          | > To Page               | 1 OK Total 2      | 10/Page 🗸            |    |          |         |              |            |                    |       |           |
| Storage              | •            |                         |                   |                      |    |          |         |              |            |                    |       |           |
| P3 Event             | <b>-</b>     |                         |                   |                      |    |          |         |              |            |                    |       |           |

#### (2) 平台控制

若相机需要添加到平台, 需要将控制模式设置为平台。同时也可以在下方手动控制道闸开关 When the camera needs to be added to the platform, the control mode need set by platform. After setting, the platform can control the opening and closing of the channel gate, you can also use the camera to test the gate on and off in this page

| MIKVISION DS-TCG406-E | Live View Playback     | Configuration Qu                                       | ick Configuration |                          |              | 👤 admin                              | E+ Logout 🗦 | 🎋 Reboot 👌 Plugin Do | mioad About | 2 L |
|-----------------------|------------------------|--|-------------------|--------------------------|--------------|--------------------------------------|-------------|----------------------|-------------|-----|
| 🖵 Local               | Barrier Gate Allowlist | and Blocklist Wiegand Para                             | meters            |                          |              |                                      |             |                      |             |     |
| 🗖 System 👻            |                        |  |                   |                          |              |                                      |             |                      |             |     |
| 🕑 Network 🗸 👻         | Barrier Gate           | Control Mode Ry P                                      | atform            | Ţ                        |              |                                      |             |                      |             |     |
| Capture               | Keep Barrier O         | pen for Following Vehicle disal                        | ble               | *                        |              |                                      |             |                      |             |     |
| Application Mode      | Lock Barrier Ga        | te for Large-Sized Vehicle                             |                   |                          |              |                                      |             |                      |             |     |
| Entrance and Exit     |                        | Parking Detection                                      |                   |                          |              |                                      |             |                      |             |     |
| Capture Parameters    | Relay                  |  |                   |                          |              |                                      |             |                      |             |     |
| Capture Images        |                        | Relay No.  | F                 | Relay Function           |              |                                      |             |                      |             |     |
| Advanced              |                        | 1  |                   | Open                     | Ŧ            |                                      |             |                      |             |     |
| 🖬 Video 👻             |                        | 2  |                   | Close                    | Ŧ            |                                      |             |                      |             |     |
| 🖹 Storage 🛛 👻         | Barrier Status         |  |                   |                          |              |                                      |             |                      |             |     |
| 🕄 Event 👻             |                        | Barrier Gate Relation IO                               | H                 | O Function               |              |                                      |             |                      |             |     |
|                       |                        | 1  |                   | None                     | Ŧ            |                                      |             |                      |             |     |
|                       |                        | 2  |                   | None                     | Ŧ            |                                      |             |                      |             |     |
|                       |                        | 3  |                   | None                     | Ŧ            |                                      |             |                      |             |     |
|                       | Remote Barrier Gate    | Control  |                   |                          |              |                                      |             |                      |             |     |
|                       |                        | Barrier Gate No. Barrier Gate Operation Barrier Status |                   |                          |              |                                      |             |                      |             |     |
|                       |                        | 1  | Close             | Open Unlock Lock         | Check whethe | r the barrier position signal is con | nected.     |                      |             |     |
|                       |                        |  | 🗎 Save            |                          |              |                                      |             |                      |             |     |
|                       |                        |  |                   | dd Histolau Phylini Tesh |              |                                      |             |                      |             |     |

## 7、字符叠加/ Test Overlay

开启后在抓拍图中显示设置的信息,如车牌号、抓拍时间、设备编号等,方便分析抓拍图的 识别结果

After this function is enabled, the set information, such as license plate identification and capture time, can be displayed in the snapshot to facilitate the analysis of the recognition result of the snapshot



| HIKVI  | ISION DS-TCG40     | i-e I | Live View   | Playback          | Configuration         | Quick Configuration                 |                        | 👤 admin                   | E+ Logout     | ∰ Reboot        | 🚽 Plugin Download | About     | E License |
|--------|--------------------|-------|-------------|-------------------|-----------------------|-------------------------------------|------------------------|---------------------------|---------------|-----------------|-------------------|-----------|-----------|
| 🖵 Lo   | ocal               |       |             |                   | Background Color      | 000000                              | •                      |                           |               |                 |                   |           |           |
| 🖻 Sy   | ystem              | -     |             |                   | Overlay Position      | Overlay on the Picture      Overlay | ay Above the Picture 🔘 | Overlay Below the Picture |               |                 |                   |           |           |
| © Ne   | etwork             | -     |             | Overlay OS        | D on Close-up Picture |                                     |                        |                           |               |                 |                   |           |           |
| jan Ca | apture             | •     | Overlay Ir  | nformation List   |                       |                                     |                        |                           |               |                 |                   |           |           |
|        | Application Mode   |       |             |                   | Select All            |                                     |                        |                           |               |                 |                   |           |           |
|        | Entrance and Exit  |       | Fixed Infor | mation            | Location              | Intersection No.                    | Device No.             | Direction No.             | Direction     |                 |                   |           |           |
|        | Capture Parameters |       |             |                   | Lane                  | Checkpoint Information              | 1                      |                           |               |                 |                   |           |           |
|        | Capture Images     |       | Capture In  | formation         | Lane No.              | Capture Time                        | V Plate Number         | Anti-counterfeiting Co    | je Capture    | No.             |                   |           |           |
|        | Advanced           |       |             |                   |                       |                                     |                        |                           |               |                 |                   |           |           |
| i Vi   | ideo               | -     | Characteri  | stics Information | Vehicle Color         | Vehicle Type                        | Vehicle Brand          |                           |               |                 |                   |           |           |
| 📑 SI   | lorage             | -     |             |                   |                       |                                     |                        |                           |               |                 |                   |           |           |
|        |                    |       | Overlay Ir  | nformation        |                       |                                     |                        |                           |               |                 |                   |           |           |
|        |                    |       | Default Ty  | pe                |                       | Туре                                | Space                  | Line Break<br>Characters  | Overlay Infor | mation          | Overlay Position  | Operation |           |
|        |                    |       | Capture Ti  | me                |                       | Capture Time:                       | 0                      | 0                         | Accurat       | e to milisecond | ✓                 |           |           |
|        |                    |       | Plate Num   | ber               |                       | Plate No.:                          | 0                      | 0                         |               |                 |                   |           |           |
|        |                    |       |             |                   |                       |                                     |                        |                           |               |                 |                   |           |           |

### 8、图像参数/ Image Parameters

①宽动态:当现场环境存在明暗差距较大时,如车牌处于背光的情况,开启宽动态,并设置 开始结束的时间段。

#### 其他:保持默认设置

①WDR mode: When there is a large gap between light and dark in the field environment, such as the license plate is in the backlight situation, turn on the lights at night caused by the license plate is too dark, open the wide dynamic, and set the start and end of the time period. Others: Keeping the default Settings

| MKVISION DS-TCG405-E                                 | Live View     | Playback             | Configuration           | Quick Configuration | 1 admin            | E+ Logout      | 挊 Reboot    | 🛃 Plugin Download | About | Ucense 🖸 |
|--|---------------|----------------------|-------------------------|---------------------|--------------------|----------------|-------------|-------------------|-------|----------|
| □ Local System +                                     | Camera Para   | meter                | 1.1                     |                     |                    |                |             |                   |       |          |
| 🕤 Network 🔹  |               | 2023 Thu 20484       |                         | General Parameter   | 2                  | Saturation =   | -           | 50                |       |          |
| Video     Camera Parameter     Text Overlay on Video | T             | X                    |                         | A CONTRACTOR        | Whit<br>White Bala | e Balance A    | uto WB1     | - 50              |       |          |
| Video Encoding                                       |               |                      |                         |                     | w                  | DR Mode O      | anual       | *                 |       |          |
| 🔛 Storage 👻  |               |                      |                         |                     | Advanced           | d Settings Sho | w Details 🗸 |                   |       |          |
|  |               | K                    |                         | Caparent > Video    |                    |                |             |                   |       |          |
|  | Q<br>Cap      | ture Test            |                         |                     |                    |                |             |                   |       |          |
|  | Test the full | anction of triggerin | ig the camera to captur |                     |                    |                |             |                   |       |          |

②亮度:默认设置 50,当现场环境过暗,可以增加亮度

③增益: 默认设置 50, 当现场环境过曝, 降低增益至 30

④快门速度:默认 5000,现场一般建议设置为 3000,避免车速太快导致重影

其他:保持默认设置

②Brightness: The default value is 50. If the environment is too dark, you can increase the brightness

③Gain: The default value is 50. When the field environment is overexposed, the gain can be reduced to 30

④Shutter speed: default: 5000. It is recommended to set the value to 3000 to avoid gelling caused by fast speed

Others: Keeping the default Settings

| HIRVISION DS-TCG405-E | Live View Playback           | Configuration Quick Configuration | 🛓 admin 🕞 Log       | gout ;;는 Reboot 👍 Plugin Down      | load About 📰 License |
|-----------------------|------------------------------|-----------------------------------|---------------------|------------------------------------|----------------------|
| 🖵 Local               | Common Deservation           |                                   |                     |                                    |                      |
| 🖂 System 👻            | Camera Parameter             |                                   |                     |                                    |                      |
| 🕑 Network 👻           | 05-18-2023 Thu 20 157        | *                                 | > General Parameter |                                    |                      |
| 🔛 Capture 👻           |                              |                                   | ✓ Video             |                                    |                      |
| 🖬 Video 🔺             |                              |                                   | Brightness          | 50                                 |                      |
| Camera Parameter      | MATZ R                       |                                   | Contrast            | 50                                 |                      |
| Text Overlay on Video | 4                            |                                   | Shutter (µs)        | 3000                               |                      |
| Video Encoding        |                              |                                   | Gain                |                                    |                      |
| 🔛 Storage 👻           |                              | AS 166                            | 3D DNR              |                                    |                      |
|                       |                              |                                   | 30 DNR Level        | Normal Mode     Expert Mode     S0 |                      |
|                       |                              | Canoza Ol                         | 2D DNR              | <b>V</b>                           |                      |
|                       | Q                            |                                   | 2D DNR Level        | 50                                 |                      |
|                       | Contract Test                |                                   | Slow Shutter        |                                    |                      |
|                       | Test the function of trigger | ing the camera to capture         | Video Standard      | 50hz                               |                      |

⑤红外模式:通常在夜间开启,开启后将增加车牌的亮度,提高车牌的识别率。根据当地设置夜间开启的时间段(night mode)以及白天关闭的时间段(day mode)

(5)IR mode: usually open at night, open will increase the brightness of the license plate, improve the license plate recognition rate. Set night mode at night and day mode at day according to local conditions.

| MIKVISION DS-TCG405-E | Live View | Playback | Configuration | Quick     | Configuratio | n    |            |          |  |
|-----------------------|-----------|----------|---------------|-----------|--------------|------|------------|----------|--|
| 🖵 Local               | ICR       |          |               |           |              |      |            |          |  |
| System -              |           | -        |               |           |              |      |            |          |  |
| Network -             | ICR       |          |               | Coloradad | ad Calkab    |      |            |          |  |
| 🔛 Capture 🔺           |           |          | ICK Mode      | Schedul   | ed Switch    |      | ·          |          |  |
| Application Mode      |           |          |               | No        | Day-night N  | lode | Start Time | End Time |  |
| Application mode      |           |          |               | 1         | Day          | -    | 05:00      | 18:30    |  |
| Entrance and Exit     |           |          |               | 2         | Night        | -    | 10:21      | 04:59    |  |
| Capture Parameters    |           |          |               | 2         | Hight        |      | 10.51      | 04.55    |  |
| Capture Images        |           |          |               |           | 🗄 Save       |      |            |          |  |
|                       |           |          |               |           |              |      |            |          |  |

⑥白光灯/红外灯:支持白光灯/红外灯的相机,可以在夜间开启红外模式的同时,开启白光灯/红外灯进行补光,增加车牌的亮度,提高夜间车牌的识别能力。

<sup>(6)</sup>White light/IR light: the camera supporting white light/infrared light can turn on the infrared mode at night at the same time, turn on the white light/infrared light to fill the light, increase the brightness of the license plate, improve the recognition ability of the license plate at night



#### 8、SD卡设置

相机支持插入 SD 卡进行录像存储或者图片存储, 第一次插入 SD 卡, 需要将卡格式化 You can insert an SD card into the camera for video storage or picture storage. If you insert an SD card into the camera for the first time, format the card

| MIKVISION DS-TCG405-E | Live View                               | Playback | Picture         | Configuration    | Quick Configuration          |        | 👤 admin | E+ Logout | 뷰 Reboot | 🕁 Plugin Download | About | E License |  |
|-----------------------|---|----------|-----------------|------------------|------------------------------|--------|---------|-----------|----------|-------------------|-------|-----------|--|
| 🖵 Local               | HDD Management Cloud Storage            |          |                 |                  |                              |        |         |           |          |                   |       |           |  |
| 🖂 System 👻            |   |          |                 |                  |                              |        |         |           |          |                   |       |           |  |
| 🕞 Network 👻           | HDD Sto                                 | rage     |                 |                  |                              |        |         |           |          |                   | Fo    | rmat      |  |
| 🔛 Capture 👻           |   | HDD No.  | Free space      | Free space/Space |                              |        | Туре    |           | Property | operty Operation  |       |           |  |
| 🖬 Video 👻             |   | 1        |                 | 6.75/6.75GB      |                              |        | SD Card |           | R/W      |                   |       |           |  |
| P1 Storage            |   | 2        |                 |                  | 2.50/7.00GB                  | Normal | SD Card |           | R/W      | 0                 |       |           |  |
| Storman Monogormant   | Auto-Initialize Redundant Storage 💽     |          |                 |                  |                              |        |         |           |          |                   |       |           |  |
| Storage Management    | Auto-Upload Data in Redundant Storage 💽 |          |                 |                  |                              |        |         |           |          |                   |       |           |  |
| Schedule Settings     |   |          | Interval(       | (ms) 200         |                              |        |         |           |          |                   |       |           |  |
|                       | HDD Que                                 | ota      |                 |                  |                              |        |         |           |          |                   |       |           |  |
|                       | HDD Quota                               |          |                 | Jota             | % 50% Capture Quota Ratio(%) |        |         | >(%)      |          |                   |       |           |  |
|                       | Picture Capability(MB)                  |          |                 | MB) 7455         |                              |        |         |           |          |                   |       |           |  |
|                       | Video Capability(MB)                    |          |                 | MB) 7455         | 7455                         |        |         |           |          |                   |       |           |  |
|                       | Capture Quota Ratio(%)                  |          |                 | 50               | 50                           |        |         |           |          |                   |       |           |  |
|                       |   | Vic      | deo Quota Ratio | 50               |                              |        |         |           |          |                   |       |           |  |
|                       |   |          |                 | 8                | Save                         |        |         |           |          |                   |       |           |  |
|                       |   |          |                 |                  |                              |        |         |           |          |                   |       |           |  |

## 9、布防状态/ Arming Status

相机添加至平台后,从设备状态中可以看到是否正确被平台布防

After the camera is added to the platform, the device status shows whether the camera is properly armed by the platform

| HIKVISION DS-TCG4 | 5-E Live View Playback Configuration          | Quick Configuration        | 1                           | admin E+ Logout     | ीह Reboot    | 🛃 Plugin Download  | About 📑 License |
|-------------------|---|----------------------------|-----------------------------|---------------------|--------------|--------------------|-----------------|
| 🖵 Local           | Basic Information Device Status Time Set      | tings DST Serial Port      |                             |                     |              |                    |                 |
| System            | <u>~</u>                                      |                            |                             |                     |              |                    |                 |
| System Settings   | Device Status                                 |                            |                             |                     |              |                    |                 |
| Maintananca       | Device IP Address                             | 10.9.97.197                |                             |                     |              |                    |                 |
| Maillichailte     | CPU Usage                                     | 33.4%                      |                             |                     |              |                    |                 |
| Security          | Used Memory(KB)                               | 198124                     |                             |                     |              |                    |                 |
| User Management   |   |                            |                             |                     |              |                    |                 |
| · · · · ·         | Available Memory(KB)                          | 115052                     |                             |                     |              |                    |                 |
| IN NEWORK         | Cache Size(KB)                                | 124400                     |                             |                     |              |                    |                 |
| Capture           | 1 NIC Working Rate (Mbps)                     | 100                        |                             |                     |              |                    |                 |
| 🗔 Video           | - Startup Time                                | 2023-05-18 16:34:39        |                             |                     |              |                    |                 |
|                   | Running Time                                  | 0Day 18Hours 23Mins 19Secs |                             |                     |              |                    |                 |
| Storage           | Last Sync Time                                | NA                         |                             |                     |              |                    |                 |
|                   | Time Difference Before and After Sync Time(s) | 0                          |                             |                     |              |                    |                 |
|                   | Live View and Arming Status                   |                            |                             |                     |              |                    |                 |
|                   | Live View Channels Live View IP Address       | Frame Rate Resolution      | Stream Type Arming Channels | Arming Host Address | Arming Level | Capture Resolution | Trigger Mode    |
|                   |   |                            |                             |                     |              |                    |                 |
|                   |   |                            |                             |                     |              |                    |                 |