Chapter 1 Solution Combinations	4
1.1 ANRP Camera + NVR	4
1.1.1 Topology	4
1.1.2 Models and software version requirement:	4
1.2 ANPR Camera + VMS	4
1.2.1 Topology	5
1.3 ANPR Camera + NVR + VMS	5
1.3.1 Topology	5
1.3.2 Models and software version requirement:	5
Chapter 2 ANPR Camera Installation Specifications	6
2.1 Camera Installation Angle	6
2.2 Camera Installation Height	7
2.3 Camera Lens Selection	8
2.4 License plate tilt angle	8
Chapter 3 Configurations	8
3.1 Set ANRP Function via Camera Web Configuration Interface	9
Steps:	9
3.2 Set ANRP Function via NVR Web Configuration Interface	13
3.3 Set ANRP Function via iVMS-4200	14
Steps:	14
3.4 Set ANRP Function via NVR Local Configuration Interface with GUI 3.0	16
Preparations:	16
Steps:	16
3.5 Set ANRP Function via NVR Local Configuration Interface with GUI 4.0	17
Preparations:	17
Steps:	17
3.6 Method to check ANPR picture pixels	18
Steps:	18
Chapter 4 Performance	19
4.1 Search ANRP pictures & videos via Camera Web Configuration Interface	19
Steps:	19

4.2 Search ANRP pictures & videos via iVMS-4200	20
Steps:	20
4.3 Search ANRP pictures & videos via NVR Local Configuration Interface with GUI 3.0.	22
Steps:	22
4.4 Search ANRP pictures & videos via NVR Local Configuration Interface with GUI 4.0	24
Steps:	24
Chapter 5 Appendix	28

# **ANPR Solution Guidance**

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# **Chapter 1 Solution Combinations**

# 1.1 ANRP Camera + NVR

In this solution, we can use the ANPR camera to capture & save the license plate pictures, and use the NVR to save both the license plate pictures & videos.

# 1.1.1 Topology



## **1.1.2 Models and software version requirement:**

	Model	Version	
	DS-2CD4X26FWD/P	Latest baseline version	
Camera	iDS-2CD8626G0/P	Latest baseline version	
	DS-2CD7A26G0/P-IZ(H)S	Latest baseline version	
NVR	–E/-K/-I series	Latest baseline version	
AI NVR	All series	Latest baseline version	

## 1.2 ANPR Camera + VMS

In this solution, we can use the ANPR camera to capture & save the license plate pictures, and use the VMS to save both the license plate pictures & videos.

# 1.2.1 Topology



# 1.2.2 Models and software version requirement:

	Model	Version
Camera	DS-2CD4X26FWD/P	Latest baseline version
	iDS-2CD8626G0/P	Latest baseline version
	DS-2CD7A26G0/P-IZ(H)S	Latest baseline version
VMS	iVMS-4200	Latest baseline version

# 1.3 ANPR Camera + NVR + VMS

In this solution, we can use the ANPR camera to capture & save the license plate pictures, and use either the NVR or VMS to save both the license plate pictures & videos.

# 1.3.1 Topology



# **1.3.2** Models and software version requirement:

	Model	Version
Camera	DS-2CD4X26FWD/P	Latest baseline version
	iDS-2CD8626G0/P	Latest baseline version

	DS-2CD7A26G0/P-IZ(H)S	Latest baseline version
NVR	–E/-K/-I series	Latest baseline version
AI NVR	All series	Latest baseline version
VMS	iVMS-4200	Latest baseline version

# **Chapter 2 ANPR Camera Installation Specifications**

In order to have a better ANPR performance, please refer to this chapter for camera installation.

Note:

- It's recommended to cover one lane for each 2MP camera;
- It's recommended the min height of a license plate should be 20 to 30 pixels in the image captured by a 2 megapixel resolution camera.

# 2.1 Camera Installation Angle

Hikvision Automatic Number Plate Recognition cameras help users detect passing vehicles and capture the license plates. To obtain the maximum license plate recognition accuracy, you need to install the ANPR camera in a proper way to get a clear image.

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# 2.2 Camera Installation Height

The installation height (H) needs to be fixed firstly, and then the detection range

(L) could be calculated by a simple equation  $L = \tan 30^{*}H$ .



Height(m)	Min L (m)
1.5	4
2	4
3	5.1
3.5	6
4	6.8

Note:

For entrance application, it's better to install the camera between the height 1.5m and 4m, and ensure the detection range is no longer than 4m.

# 2.3 Camera Lens Selection

The recognition distance is based on the camera focal length. You should select a proper lens In order to get enough pixels in the frame.



The table below is for your reference:

Camera	Lens(mm)	Min recognition distance (m)	Max recognition distance (m)
DS-2CD4X26FWD/P	2.8~12	4	18
	3.8~16		
1D3-2CD802000/F	8~32		
DS-2CD7A26G0/P-IZ(H)S	7~33		
	11~40		
	8~96	12	142

# 2.4 License plate tilt angle

The license plate should be as horizontal as possible and the recommended tilt angle is within +/-5 degrees.



Also, the vehicles in the detection area should go as straight as possible instead of turning left or right.

# **Chapter 3 Configurations**

You can set the ANRP function via camera or NVR from web configuration

interface, local configuration interface or iVMS client.

The steps are similar.

# **3.1 Set ANRP Function via Camera Web Configuration Interface**

#### Steps:

1. Go to System>Maintenance>System Service to enable the IR light;



2. Go to Image Display Settings to change Exposure Time to 1/250 -1/500;



3. Set the Day/Night Switch to Auto;

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#### 4. Go to **Picture** to choose the text overlay on the picture;

HIKVISION	Live View F	Playback	Picture	Configuration			
🖵 Local	Detection Configuratio	on Picture (	Camera Black	ist & Whitelist Real	-time LPR Result		
📺 System	Picture Quality		C	100			
Network	Picture Size	1024		kb			
Video/Audio	<ul> <li>Overlay</li> </ul>						
Image	Font Color						
Event	Background Col	or					
🖺 Storage	Text Overlay						
Road Traffic	Device No.	<ul> <li>Capture Time</li> </ul>	e 🔲 Direction	Plate No.	Camera Info.	Camera	No. 🔲 Validity
Open Platform		Тур	e			Sorting	9
		Camera	No.			+ 4	•
		Device	No.			+ +	•
		Capture	Time			+ 4	,
		Plate	No.			+ 4	•
	FTP Picture Nam	ne					
	<ul> <li>Default</li> </ul>	<ul> <li>Custom</li> </ul>					
	Example: IP_Ch	annel NoTime_Ty	pe.jpg				

5. Go to Road Traffic to select lane numbers (1~4) and traffic mode;



#### Note:

- Blue Detection Line: Mainly used for Entrance/Exit with a purpose of improving the capture efficiency. The line is generated automatically, please keep it in the detection area and close to the vehicle license plate.
- **Small:** It means the height of a license plate should be 20 to 30 pixels in the image captured by a 2 megapixel resolution camera.
- Large: It means the height of a license plate should be 30 to 40 pixels in the image captured by a 2 megapixel resolution camera.
- **City Street:** It means the license plate information of the detected vehicle will be uploaded when the vehicle passes the detection area and triggers the detection.
- Alarm Input: It means the input alarm will trigger a license plate capture

and recognition action.

6. Go to **Arming Schedule** and **Linkage Method** to continue; here you can set the arming schedule and linkage action independently for white list, black list and other list;

🖵 Local	✓ Enable Area Settin	tings Arming Schedule and Linkage Method
Network	White List	t Black List Other List
Video/Audio	Arming S	Schedule
Image	× Dele	iete 🔟 Delete All
Event	0	0 2 4 6 8 10 12 14 16 18 20 22 24
Storage	Mon	
Road Traffic	Tue	
	Wed	0 2 4 6 8 10 12 14 16 18 20 22 24
	0 Thu	0 2 4 6 8 10 12 14 16 18 20 22 24
	0 Fri	0 2 4 6 8 10 12 14 16 18 20 22 24
	0 Sat	0 2 4 6 8 10 12 14 16 18 20 22 24
	Sun	0 2 4 6 8 10 12 14 16 18 20 22 24

7. Select a direction here. The **Forward** means vehicle moves toward the camera; **Reverse** means vehicle moves away from the camera. Only the vehicles moving as the selected direction can trigger selected linkage methods;



8. Remember to enable Notify Surveillance Center and Upload to FTP/xxxx;

Linkage Method					
Direction <ul> <li>All</li> <li>Forward</li> <li>Reverse</li> </ul>					
✓ Normal Linkage ✓ Trigger Alarm Output					
Notify Surveillance Center	☑ A->1				
☑ Upload to FTP/Memory Card/					

9. The last part is to import the Blacklist & Whitelist. If you don't have such a

list in advance, export the template first to make one;

HII	VISION	Live View Playback		Picture	Configuration	
Ţ	Local	Detection Co	onfiguration Picture	Camera Black	klist & Whitelist	Real-time LPR Result
	System	Import	Blacklist & Whitelist			
Ð	Network	Blacklist 8	Whitelist File			Browse Import
.Q.	Video/Audio	Status				
1	Image	Note: You	ı can set at most 2048 <mark>l</mark> i	cense plates in white	list and blacklist in t	otal.
圁	Event	Export	Blacklist & Whitelist			
	Storage	Expor	t			
Fà	Road Traffic	Blackl	ist & Whitelist Content			
<u>.ul</u>	Open Platform	No.	Plate No.		Туре	Creation Time

The template looks like this:

(when inputting the plate number, input several consecutive numbers/letters with no blank included.)

D8			-	:	×	$\checkmark$	<i>f</i> x
		А			в		С
1	No.			Plate	Num		Group(O black list, 1 white list)
2							
3							
4							
5							

# 3.2 Set ANRP Function via NVR Web Configuration Interface

Please refer to Chapter 3.1;

# 3.3 Set ANRP Function via iVMS-4200

#### Steps:

1. Add the ANRP camera to 4200 client in **Device Management** interface;

Event N	lanagement 🖉 🚔 Device M	anagement 🛛 🕞 Main View	🚡 Remote Playback 📑	License Plate Retrieval	A R
 Device 🖬 Group					
Device Type	Device for Management (1)				
- Hikvision Device	🕂 Add 🗹 Modify 🗙 Delete	Remote Configuration 🏙 QI	R Code 🔮 Activate 🏦 Upgrade (0)		Filter
Hik-Connect Device	Device Type   Nickname	Connection   Network Parameters	Device Serial No.	Security	Net Status
Third-party Encoding Device	Encoding D ANPR	TCP/IP 10.16.113.40:8000	DS-2CD4A26FWD-IZS/PWG20170122CCWR7	711913546 Weak	0

2. Go to Remote Configuration-> System Maintenance to upgrade the device

to the latest version;

File System View Tool Help		📥 iVMS-4200	)	admi
Control Panel 🍟 Event N	Management 🛃 Device Manageme	nt 🔂 Main View	E Remote Playback	License Plate Retrieval
📼 Device 🖬 Group				
Device Type	Device for Management (1)			
📾 Hikvision Device	🕂 Add 🖸 Modify 🗙 Delete 🏟 Ren	note Configuration 🏼 🇱 QR Code	Activate 1 Upgrade (0)	
Hik-Connect Device Hik-Connect Device		Remo	te Configuration	
📲 Upgrade Server	🖃 🚳 System	System Maintenance		
Stream Media Server	Device Information	System Management		
T Add New Device Type	Ceneral Time System Maintenance RS232 Cog Sog Log Sog Vser	r Remote Upgrade	Reboot Restore Default Settings Restore All mport Configuration File Export Configuration File	
	<ul><li>Service</li><li>Security</li></ul>	Select Type: L	Ipgrade File 🗸 🗸	
	<ul> <li>★ Construction</li> <li>★ Construction</li> <li>★ Construction</li> </ul>	Select File:		Upgrade
	🐮 🚳 Event	Progress:		

3. Enable IR Light in System -> Service;

	Remote Configuration
🖃 🚳 System	Configuring the Service Parameters
Device Information	Hardware Service
🎡 General	Enable IR Light
🎡 Time	
🎡 System Maintenance	
₩ RS232	
🎡 Log	
🎡 User	
🏶 Service	
Security	

4. Go to CCD to set **Exposure Time** to 1/250 -1/500 & Iris Mode to Manual;

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#### 5. Set the Day/Night Switch to Auto;

	Remote Configuration
🕑 🚳 System	Configuring the Day/Night Switch Parameters
🐮 🚳 Network	
🕐 🚷 Storage	Day/Night Mode: Auto
🕐 🚷 Event	Night -> Day:
- 🚱 CCD	
Day/Night Switch Settings	Save
Wideo Parameters	
🎡 White Balance	
Exposure	
🎡 WDR	
🌸 Day Night Switch	

# 6. Go to **Picture** to choose the text overlay on the capture;

	Remote Configuration	
🖅 🚳 System	Configuring the Picture Parameters	
🖭 🚳 Network	Camera: Camera1 🗸	
🖭 🍪 Storage 🖭 🍪 Event	Picture	
* 🚳 CCD	Picture Quality [1-100]:     Picture Size [64-2048K]:	
- 🚳 Road Traffic	✓ Enable Text Overlay	
Detection Configuration Picture	Font Color:	
🎡 Camera	Picture OSD Overlay         Image: Camera ID         Camera ID         Camera Information         Vehicle Direction         Validity	e No
	Туре	
	Camera ID 🕇 🖡	
	Device ID 🕇 🖡	
	Capture Time	
	Plate No 🔶	
	Picture Name: Default v	

Go to Road Traffic to set detailed configurations which are similar to those configured in device web configuration interface (please refer to chapter 3.1);

		Remote Configuratio	n			×
🕐 🚳 System	Configuring th	e Detection Settings				
🕐 🚱 Network	Camera:	Camera1	~			
🖭 🚳 Storage	Charles State			Enable Vehicle Detection	ction	
🖭 🚳 Event	11-06-2017	Mon 15:11:46	and a second	Total Number of Lanes:	2	~
🕑 🚳 CCD			200	Type:	Other	~
🛨 🚳 Image			ne bheir	License Plate Size:	Large	~
🖃 🚳 Road Traffic		1.1		Triggered Direction:	All	~
Detection Configuration	Contract Con	Lane Line1		Select Mode:	City Street	~
W Picture	(Rental)	1		Trigger Alarm Output	1	
🎡 Camera				All		
			1	✓ A->1		
			The second second			
	Arming Schedule:	Edit				
	Linkage Method	ance Center				
	Unload Picture	a to FTP				
	Blacklist/Whitelist					
	Export:		Export			
	Import:		Import			
					Sav	le

# 3.4 Set ANRP Function via NVR Local Configuration Interface with GUI 3.0

#### **Preparations:**

Please refer to chapter 3.1 & chapter 3.3;

#### Steps:

1. Go to Menu->Camera Management->VCA-> select the camera

channel->Vehicle Detection to enable ANPR function. Remember to check Save VCA Picture.

2. For detailed steps, please refer to chapter 3.1 & chapter 3.3;

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			Camera	Management					
🛥 Camera	VCA								
rt osp	Camera		[D1] Camera	01				Save VC.	A Picture
<b>B</b> 03D	Face Detec	Vehicle Det	Line Crossi	Intrusion De.	Region Entr	Region Exiti	Loitering	D People	Gath
😵 Image	Fast Movin	Parking Det	Unattended	Object Rem.	Audio Exce	Defocus De	Sudden S	Sc PIR /	Alarm
	Enable					k		]	
U PTZ	Settings		Blacklist	\$	Whitelist	Others	5		
🛬 Motion	Rule		1					Rule Set	tings
Privacy Mask					Draw Line	Blacklist &	Whitelist	Import/E>	xport
					Draw Qua	No. Pla	te No.	Туре	
👋 Video Tampering			*0*	#2#	Clear All				
Video Loss	and the second	<b>#0#</b> *1*	#1#						
© VCA	,								
♠ Live View							Apply	Back	(

# 3.5 Set ANRP Function via NVR Local Configuration Interface with GUI 4.0

### **Preparations:**

Please refer to chapter 3.1 & chapter 3.3;

#### Steps:

- Go to System->Event->Smart Event-> select the camera channel->Vehicle to enable ANPR function. Remember to check Save VCA Picture;
- 2. For detailed steps, please refer to chapter 3.1 & chapter 3.3.

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# 3.6 Method to check ANPR picture pixels

#### Steps:

- Save a picture with vehicle license plate information to PC, then open it with paint tool;
- 2. Click Select, draw a rectangle to cover the vehicle license plate;
- 3. Check the pixel at the bottom of the picture.



# **Chapter 4 Performance**

# 4.1 Search ANRP pictures & videos via Camera Web Configuration Interface

### Steps:

1. You can search or download the pictures in Picture interface by selecting

the File Type as Vehicle Detection.

#### Note:

Make sure the SD card in camera is working.

HIKVISION		Live Vi	ew Playback Pictur	Configuration		👤 admin 🛭 🚯 Help 🛛 🕞 Logout
Download by File						
Search Conditions	Fi	le List				🛓 Download 🛓 Stop Downloading
File Type		No.	File Name	Time	File Size	Progress
Vehicle Detection		1	20180409095913_TFTPUP4T	2018-04-09 09:59:13	364 KB	4
Plate No.		2	20180409095922_C6HFGX8	2018-04-09 09:59:22	404 KB	
Flate No.		3	20180409095925_VYS420S69	2018-04-09 09:59:25	504 KB	
Start Time		4	20180409095926_TFTPUPI8	2018-04-09 09:59:26	491 KB	
2018-04-09 00:00:00		5	20180409095927_1617	2018-04-09 09:59:27	504 KB	
End Time		6	20180409095927_VMS4200	2018-04-09 09:59:27	509 KB	
2018-04-09 23:59:59		7	20180409095931_1617	2018-04-09 09:59:31	483 KB	
		8	20180409095950_H1617	2018-04-09 09:59:50	463 KB	
Q Search		9	20180409101422_1617	2018-04-09 10:14:22	482 KB	
		10	20180409101441_HG4400	2018-04-09 10:14:41	468 KB	
Export		11	20180409101441_VMS4200VNS	2018-04-09 10:14:41	469 KB	

 You can also check the real-time captured license plate in Real-time LPR Result interface;



# 4.2 Search ANRP pictures & videos via iVMS-4200

#### Steps:

1. You can search or download the captured pictures in Road Traffic interface.

Vehicle Information could also be exported here;

#### Note:

Make sure the SD card in camera is working, or you have set up storage

server for iVMS-4200;

File System View Tool Help			æ	iVMS-4200			admin 🏵 🕮 🛗 19:3	7:11 🗎 🗕 🗗 🗙
Even	nt Management	🚔 Device Manag	ement 🛃 M	ain View 🚡 Remote Pl	layback	Road Traffic	🛃 License Plate Retr	rieval -
Camera	Road Traffic					3	Export Vehicle Information	Export Picture
Search 9	lndex	Time	License Plate Numb	er   Picture				1
🖃 🖨 ANPR	37	2018-04-08 17:13:44	D10UC	21				
Camera1_ANPR	38	2018-04-08 17:13:47	OPEN	22				
	39	2018-04-08 17:13:50	RESET	22				
	40	2018-04-08 17:13:51	LANP6E	21				
	41	2018-04-08 17:13:51	DC12V	22				
	C 42	2018-04-08 17:13:55	CB50PHGP	21				0

2. If the camera is also added into NVR, you can search or download the



captured pictures in License Plate Retrieval interface;

3. You need to set an EVENT recording schedule in NVR in advance.

ivms-4200 ile System View Tool Help admin 🛞 📼 🛗 14:: Control Panel Main View 🚔 Device Management Storage Schedule 🚡 Remote Playback 🎒 Event Management Road Traff -Camera Storage Schedule Copy to.. 2 Search Storage of Encoding Se. 🖃 😂 ANPR Recording Schedule: Event Template Edit Advanced Settings Cameral ANPR Templates Management ø 🖉 Event Recording 🖉 Command 🛪 📋 🗊 IP Camera2\_9616NI-ST **Continuous** All-day Template IP Camera3\_9616NI-ST O Weekday Template IP Camera4\_9616NI-ST 10 12 14 16 18 20 22 6 8 Mon IP Camera5\_9616NI-ST Event Template IP Camera6\_9616NI-ST 8 10 12 14 16 18 6 20 22 Template 01 Tue IP Camera7\_9616NI-ST Template 02 6 8 10 12 14 16 18 20 22 IP Camera8\_9616NI-ST Wed 🍘 IP Camera9\_9616NI-ST Template 03 6 8 10 12 14 16 18 20 22 4 IP Camera10\_9616NI-ST Thu Template 04 IP Camera11\_9616NI-ST 6 8 10 12 14 16 18 20 22 Template 05 Fri Template 06 6 8 10 12 14 16 18 20 22 Sat Template 07 8 10 12 14 16 18 20 22 Sur Template 08 OK Cancel 🕼 👃 🚰 🍁 Motion Detection Al

Otherwise there will be only pictures;

# 4.3 Search ANRP pictures & videos via NVR Local Configuration Interface with GUI 3.0

# Steps:

1. Go to Menu->VCA Search->Plate Search to search & export the captured

license plate pictures & videos;

			VCA S	Search						
A Behavior Search	Plate Search									
Search	■IP Camera	<b>☑</b> D1	■D2	D3	■ D4	■D5	D6	■D7	<b>■</b> D8	
🔿 Plate Search 🔹 >		<b>D</b> 9	D10	■D11	D12	■D13	■D14	■D15	■D16	
	Start Time		09-04-20	18		<b>**</b>	00:00:00			٩
	End Time	09-04-20	18		*	23:59:59	23:59:59			
ഹ്പ് Heat Map	Country		All							
	Plate No.									
				R.						
♠ Live View							Se	arch	Back	

2. After clicking Search button, all the captured license plate pictures &

videos would be displayed;

		Plate Search			
Chart List					
AII	2 D1 09-04-2018 14:29-15 D1 09-04-2018 14:29.18	D1 09-04-2018 14/29:23	09-04-2018 14:31:24	18% 14:28:48 Plate No. FL866 Country: Unrecord	Biter Cutore of Cutore of Cut
Total: 165 P: 9	9	н	<u>4 ▶ ) </u> →	Country: Unrecog	nized
Picture 🗹	Record 🛛 🗹 Backup License Plat		Export All	Export	Back

3. You need to set an **EVENT recording schedule** in NVR in advance. Otherwise there will be only pictures;



# 4.4 Search ANRP pictures & videos via NVR Local Configuration Interface with GUI 4.0

## Steps:

1. You can go to **Playback-> Custom Search->** select the Event Type as Vehicle

to search & export the captured license plate pictures & videos;

<b>NVR</b> 4.0		D		$\odot$	Γ.		ŝ	Ş	🖑 🛛   🕛
Search Condition	Time	Custom	•	2018-04-09 0	0:00:00	2018-04-	09 23:59:59		
	Tag	•		File Status	All		•		
	Event Type	Vehicle	•						
	Plate No.								
	Area/Country	None	~						
			$\sim$						
					<				
					$\mathbf{i}$				
						$\mathbf{i}$			
								*	
						Empty Cond	itions	Search	Save
Exit						*			-

 After clicking Search button, all the captured license plate pictures & videos would be displayed. You can click any of these to watch the video;

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 You can also go to File Management->Vehicle Files ->click Search button, then all the captured license plate pictures & videos would be displayed. You can click any of these to watch the video;



 Vehicle detailed information could also be exported later if you enable the Backup License Plate Statistics Info, which would be included in an .excel file;

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	<b>NVR</b> 4.0	si Z			S 4			લ્ડ દ્		4 <sup>999</sup> 🚇   🕛
F		Time	Custom	•	2018-04-09 00:00:	00 🛱	2018-04-09 23	:59:59 🛗		
		-								
2	J Human Files	Camera	[D1] ANPR					•		
Ŕ	J Vehicle Files	Plate No.								
Soar	th Condition	Area/Country	All	-						
Searc	Condition									
					k					
				- I						
				– L	Backup License		Empty Conditions	Se	arch	Save
						_				
	vehicleinfo 20	180510134	800.xls		5/10	/2018	1:48	Microsoft	Excel	66 KB
	( <u></u>				0/20	/2020	2110 111		2.1.001 111	00110
	A	Dista Nor	B	Char	C		Data()/aaa	D (Marshh (Davi)	<b>T</b> ime (11)	E
1 2	1	D7S1411	iber	-	Name		2018/05/1	(Month/Day) 0	12:30:03	:Minute:Second)
3	2	D7A1411		-			2018/05/1	0	12:30:21	
4	3	D71411		-			2018/05/1	0	12:30:28	
5	4	D7Q1411		-			2018/05/1	0	12:30:33	
0 7	6	D71411 D7R1411		-			2018/05/1	0	12:30:42	
8	7	D7Q1411		-			2018/05/1	0	12:30:52	
9	8	D741411		-			2018/05/1	0	12:31:01	
	0	D7061411					0010/05/1	0	10.01.10	

# 5. Go to Live view->Target Detection-> Select Vehicle Detection to watch the

real-time captured license plate pictures & videos;

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6. You need to set an EVENT recording schedule in NVR->Storage->Recording Schedule in advance. Otherwise there will be only pictures.

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NVR 4.0		T 🛢 🔅 🔑
Recording Schedule	Camera No. [D1] ANPR	
Storage Device	Enable Schedule 🗹	Advanc
Storage Mode	Continuous Event Motion Alarm	M   A M & A POS Event None Edit
	0 2 4 6 8 10 Mon	12 14 16 18 20 22 24
	Tue	2
	Wed Thu	4
	Fri Sat	5 6
	Sun	7

# **Chapter 5 Appendix**

1. Spec of ANPR cameras (4x26 series):

/00 Oversea Products/01 IP/01 SPEC, A&E SPEC/SPEC/01 IPC/08 4 Series ANPR(4X26FWD)/

2. Spec of AI NVR:

/00 Oversea Products/01 IP/01 SPEC, A&E SPEC/SPEC/03 NVR/DeepinMind NVR/

First Choice for Security Professionals HIKVISION Technical Support