

Hikvision

HIKVISION

TECHNICAL DATA SHEET |

Ref: Hikvision 2024 004 | Apr 2024

ANPR

Hikvision ANPR

Setup Hik ANPR with Paxton Net2

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Specifications / wiring

The ANPR camera that is used: iDS-2CD7A46G0/P-IZHSY with FW: V5.8.50 Build 240306

The Paxton Net2 that is used: Version 6.7.13622.4566

Wiring

How to connect the camera to the ACU of Paxton. Be sure the cable distance (of the camera Wiegand out to acu reader in) is within 15 meters. And should be wired like the picture below.

!!DO NOT USE UTP FOR READER WIRING!!

Aansluitschema

Kleur ader	Hikvision Camera	Net2 Plus ACU
Yellow	DATA0	Data/D0
Blue	DATA1	Clock/D1
Black	GND	0V



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Config of Hikvision

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Ū	Common Settings	Basic Information	Time Settings	RS-232	RS-485	System Service	Location	Wiegand					
Live View	System ^		Device Name	IP CAMERA									
Application Display	System Settings		*Device No	00									
	User Management			00									
	Network ~		Device Model	IDS-2CD7A46G	0/P-IZHSY								
~	Video/Audio		Device Serial No.	iDS-2CD7A46G	0/P-IZHSY								
Configuration	Image		Firmware Version	V5.8.50 build 24	40306 Upgrade								
4	Storage 🗸 🗸		Encoding Version	V7.3 build 2401	12								
Maintenance and Security	Event ~		Web Version	V5.1.35_R0101	build 240119								
	Device Management 🗸 🗸		Number of Channels	1									
			Number of HDDs	1									
		Nu	umber of Alarm Inputs	2									
		Num	nber of Alarm Outputs	2									
		Firmw	vare Version Property	B-R-H8-0									
				Save									

Configuration -> system -> system settings -> Basic information. This is where you find the information for checking the firmware.

HIKVI	5ION®											۵ ۵	① admin ∽
	Common Settings		Basic Information	Time Settings	RS-232	RS-485	System Service	Location	Wiegand				
Live view	System	^		Enable									
(4) Application	System Settings			Protocol									
Display	User Management			Protocor	SHA-1 20DIT								
	Network	~			Save								
0	Video/Audio												
Configuration	Image												
S. Maintenance	Storage	~											
and Security	Event	~											
	Device Management	~											

Configuration -> system -> system settings -> Wiegand Make sure the "Enable" is activated and the protocol is set to : "SHA-1 26bit".



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At the "VCA" settings enable the "ROAD TRAFFIC" application (if it was not enabled before, the camera will / needs a restart).

HIKVISION		Q ∯ ⊙ admin Y
Live View (a) Application Display	© Select Application © Sel Application Complete the detailed settings of the smart application or event.	
ti VCA ©mfiguration	Ceneral Setting:	
Maintenance and Security	Read Traffic	

Click first on "SET APPLICATION"



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Go to "Metadata Settings" and enable "Road Traffic".

HIKVISION	/ð.	Q 🔝 🛈 admin Y
E Live View	Select Application Set Application Complete the detailed settings of the smart application or event	
Display VCA		
Configuration Saintenance Ind Security	Ceneral Settings	
	Road Traffic	

Go to "road traffic" for the next step of settings.



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	C Road Traffic				
Live View	Road Traffic Traffic Flow Statistics				
(4) Application Display	Rule	Arming Schedule a Overlay & Capture	Blocklist & Allowlist Advanced		
VCA	Туре	Vehicle Detection Mixed-Traffic Detection	® ● ∷ ⊄ ⊄ Ē Ē		
© Configuration	Enable				
2	Operating Mode	Entrance/Exit ~			
Maintenance and Security	Total Number of Lanes	1 ~			
	Low-Installation Mode				
	Quick Lift				
	Area	Europe			
	Country/Region	General ~			
	Detection Mode	License Plate & Vehicle Ovehicle Priority In license plate & vehicle mode, the device detects license plate and vehicle simultaneously and it uploads the alarm information and the captured pictures.	· (atheree)		
	Remove Duplicated License Plates				
	Upload Motorcycle Alarm				
	Upload Double-License-Plate Alarm				
		Save			

Draw the left, right border and the license plate read height. Settings for parameters:

- -Type
- => "vehicle detection"
- -Put "Enable" => ON
- -Operating mode => "Entrance/Exit"
- -Detection mode "
- => "vehhicle priority"



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Ģ	Road Traffic	
Live View	Road Traffic Traffic Flow Statistics	
می Application Display	Rule Arming Schedule a Overlay & Capture Blocklist & Allowlist Advanced	
VCA	Target Type Blocklist Allowlist Others	
(Configuration	Arming Schedule	
A Maintenance and Security	Arming Schedule Edit	
	Direction All Forward Reverse	
	Send Email	
	Notify Surveillance	
	Upload to FTPIMem	
	Trigger Alarm Output 🕑 Select All 🧭 A->1 👘 A->2	
	Wiegand Linkage 🕑 Select All	
	Save Copy to	

Make sure that the all target types are set like in the pictures on this page.

Arming schedule like the picture below. Wiegand linkage to "WD-1".

"Arming shedule" set to 24/7.

www.smartsd.com

HIKVISION®	Arming Schedule	×
C Road Traffic	A Draw	A France
Live Vew Road Traffic Traffic Flow Statistics	00 02 04 06 08	2 10 12 14 16 18 20 22 24
Co Arming Schedule a Overlay & Capture Blocklist & Allovilit Advanced	Tue Wed	
VCA Target Type Blocklist Allowist Others	Fri Sat	
Configuration Arming Schedule	Sun 00 02 04 06 08	10 12 14 16 18 20 22 24
Arming Schedule Edit	Cancel	
and Socially Linkage Method		
Direction 🕘 All 🔷 Forward 🔷 Reverse		
Send Email ()		
Notify Surveillance		
Upload to FTPMem		
Tridgger Alarm Output [] A>1 [] A>2		
Wiegand Linkage 😥 Select All		
Save Copy to		



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To check the reading of the camera, go to "application display" and choose "Display alarm". It will show the reading of the camera. How well it reads and what specific info it reads.





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Config of ACU Paxton Net2

ACU			
ACU serienummer:			
Deur naam	ACU		Uitvoeren
Deur groep	(Geen afdeling)	~	Annuleren
Deur openingstijd	3 - seconden		Deuropenen
Open deur automatisch gedurende	Nooit toegang	~	
	Ontgrendel de deur nadat een geldige gebruiker toegang gekregen heeft		Identificeren
	Stille werking		
Schakel relais 2 gedurende	Nooit toegang	~	
Lezer 1 Lezer 2 Alarm Gebeurter	nissen Integratie met brandmeldpaneel Multi-partitie Inbraak integratie Bevoegdheden		
Lezer details			
Naam lezer	ACU (In)		
Type lezer	ANPR - 26 bit Wiegand lezer		~
Type keypad	Geen		~
Kaart data formaat	ANPR - 26 bit Wiegand	~ N	lieuw formaat
Werkingsmodus			
Lezer werkingsmode	Enkel kaart	~	
Tijd gestuurde mode - Dit is mogel	lijk voor diverse lezers gedurende een geselecteerd tijdschema.		
Gedurende dit tijdschema:	24 uur / 7 dagen	~	
Deze lezer zal werken als:	😵 Niet actief	~	
Deur actie - Wat wilt u dat er gebeurt	als er een geldige kaart of pin is aangeboden.		
	Relais 1 schakelt gedurende deur openingstijd	\checkmark	

Set the next parameters in the ACU (door) unit corresponding to the wired reader 1 or 2. In this case the Wiegand of the camera is connected to the reader 1 port of the ACU.

- -Type reader => "ANPR 26 bit Wiegand reader"
- -Card data format => "ANPR 26 bit Wiegand
- -Reader working mode => "Card only"

Add a user and add a new credential. This will be the license plate, write the plate without the "-" marks. And authorize the user for the ANPR ACU.

Voornaam	User	
Achternaam		
Afdeling	Users V	Toevoegen afdeling
Telefoon	Mobiel	
Functie		
	Geldig van	
	Verloopt nooit	
Bevoegdheden Kaarten Gebru	iker gegevens Overige gegevens Gebeurtenissen Huidige geldigheid Anti-passback Multi-partitie Inbraak integratie Bezetting beheer Checkpoint controle	
PIN Automat	isch PIN Kaart layout Geen	
		Nieuwe kaart
		Verwijderen
		Verloren kaart
		Gevonden kaart
		Wijzig type kaart