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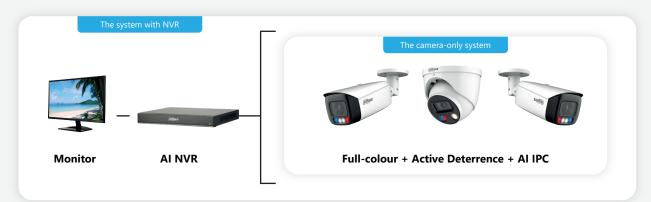
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# 1. What's required?

Equipment	Specification Type	Appearance	Remarks
Cameras	IPC-HFW3249T1-AS-PV IPC-HFW3549T1-AS-PV IPC-HFW3849T1-AS-PV	A. 1	System Version: V2.800.00AD00.0.R
Cameras	IPC-HDW3249T1-AS-PV IPC-HDW3549T1-AS-PV IPC-HDW3849T1-AS-PV	2	Build Date: 29/07/2020
Recorders	NVR5000-I Series	(Reya	System Version: V4.000.10BE002.4 Build Date: 10/09/2020
Monitor	DHL22-F600-S		

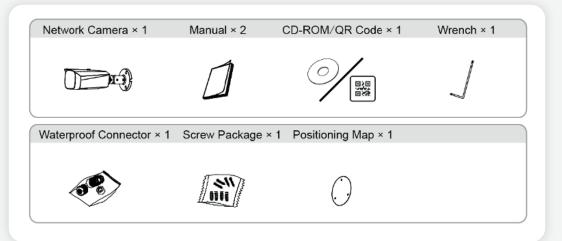
The firmware version is based on the latest version when this document was created and may slightly differ from future versions, however this will not affect any of the functions.

# 2. Installation guide



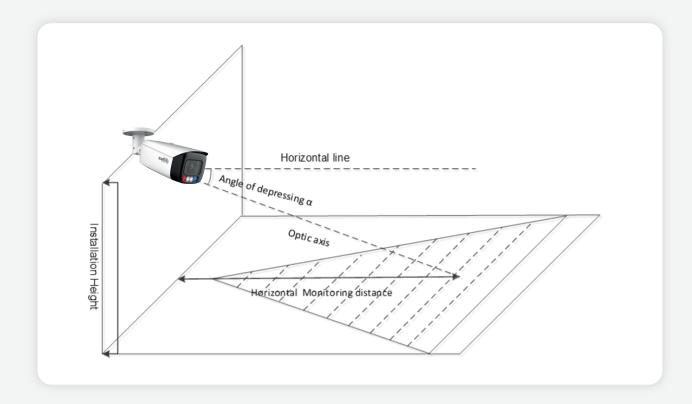
# 2.1 Installing the camera

#### 2.1.1 What's in the box?

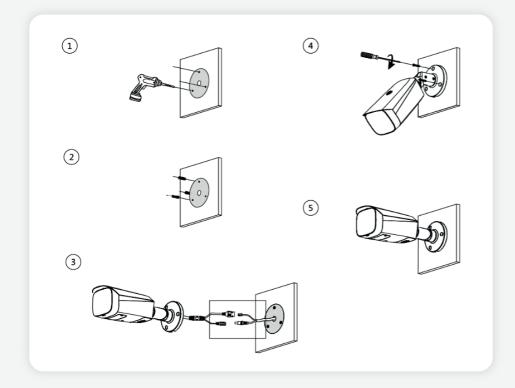


#### 2.1.2 Installation requirements

We recommend an installation height and distance from the camera of approx. 3 meters, with the depression angle between **20° and 40°**.

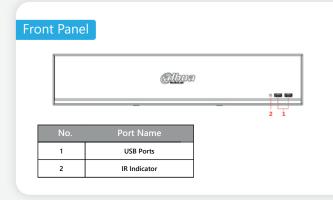


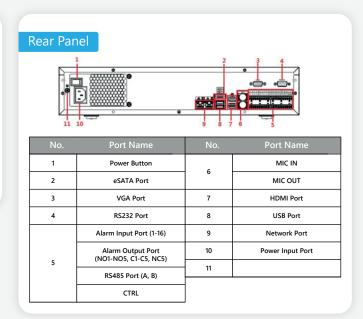
#### 2.1.3 How to install the camera



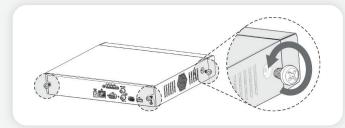
# 2.2 Installation of the recorder

#### 2.2.1 Ports on the recorder

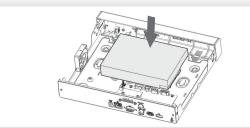




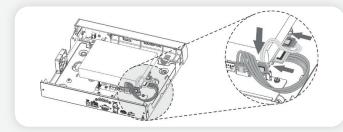
#### 2.2.2 How to install the recorder



**Step 1**: Remove the fixing screws on the case cover (including the two screws on the rear panel and the two screws on the left and right panels).



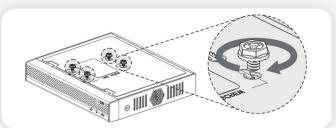
**Step 3:** Match the four holes on the baseboard to position the HDD.



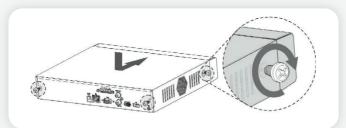
**Step 5:** Connect the HDD data and power cable to the device.



Step 2: Remove the case cover in the direction shown by the arrow above.



**Step 4:** Turn the device upside down, match the screws with the holes on the HDD and then fasten them. The HDD is fixed to the baseboard.



**Step 6:** Place the cover back and fasten the screws on the rear panel and side panels to complete the installation.

# 3. Connection and Initialisation

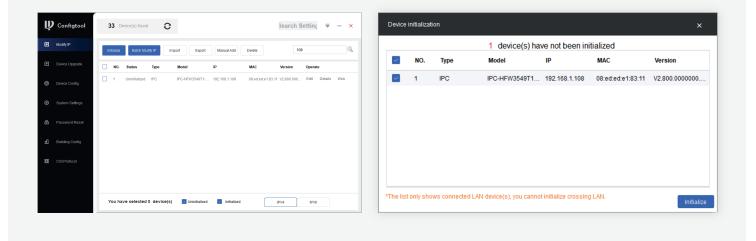
The next steps depend on what system is being installed; camera-only system or the NVR system.

#### 3.1 Deployment of camera-only system

If the camera has already been connected to the power and LAN it can be searched using the Config tool as per the picture shown below (Config tool can be downloaded from the toolbox):

https://www.dahuasecurity.com/support/downloadCenter/tools/maintenanceTools?path=window

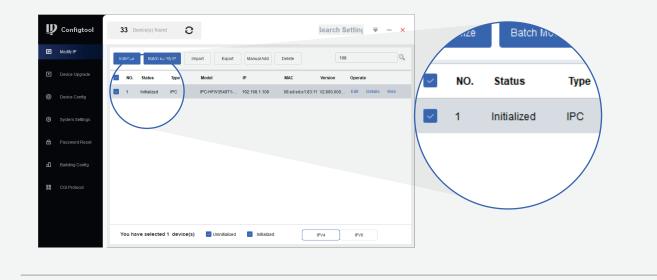
Step 1: Select one or several devices in uninitialised status and then *click* Initialise



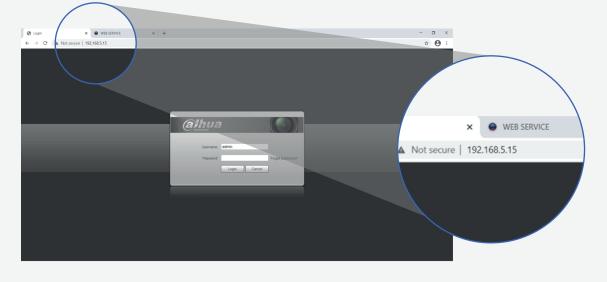
#### Step 2: Set the new password.

Device initialization	×	Initiali	zation					×
1	device(s) have not been initialized				1 device(s)	have been acti	vated!	
Username	admin							
New Password		NO.		Туре	Model	IP	MAC	Version
	Weak Medium Strong	1	~	IPC	IPC-HFW3549T1-A	192.168.1.108	08:ed:ed:e1:83:11	V2.800.00AD000.0.R
Confirm Password								
	Use a password that has 8 to 32 characters, it can be a combination of letter(s), number(s) and symbol(s) with at least two kinds of them. (excluding single quote('), double quote(''), colon(.'), semicolon(.), connection symbol(&))							
Email Address	(for password reset)							
Select P/N	PAL •							
*After you have set new	v password, please set password again in "Search Setting".							
	Next							Finish

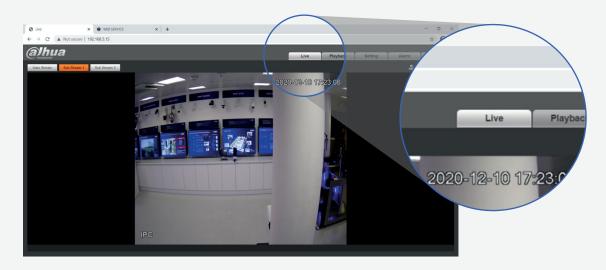
After a while the status will change to initialised and then it is possible to get the IP address.



Step 3: Login to the camera using a web browser by entering the IP address.



**Step 4**: *Click* **Live** in the top right corner and view live camera image.

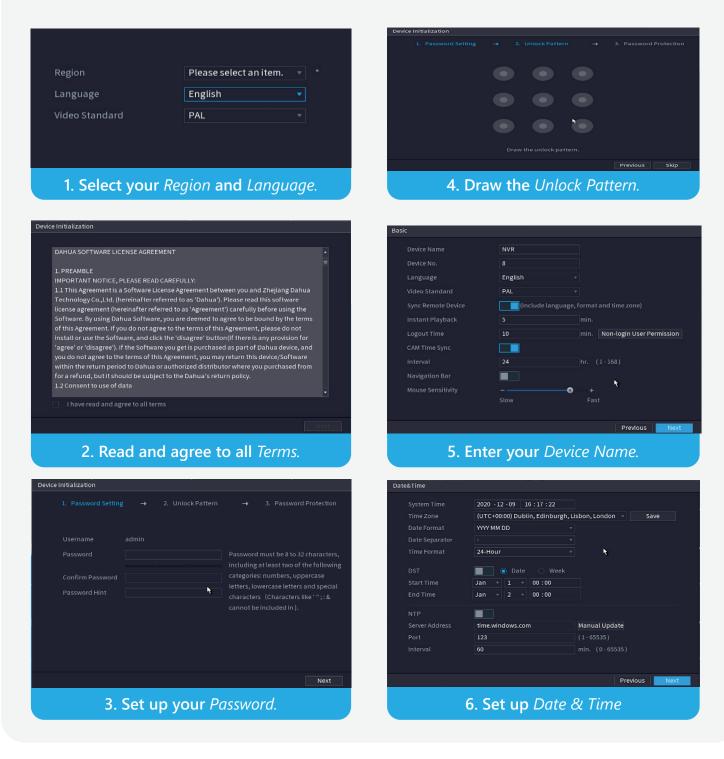


#### 3.2 Deployment using NVR-system

If you are using an NVR-system, the following instruction will show how to initialise it. Once you have entered all of the basic information, there are several ways of initialising cameras.

Step 1: Make sure the NVR is connected to the same Internet network as the camera.

**Step 2**: Launch the NVR whilst it is initialising and enter the basic set up information, including country, terms, time, password, unlock pattern and IP address.

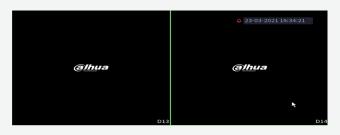


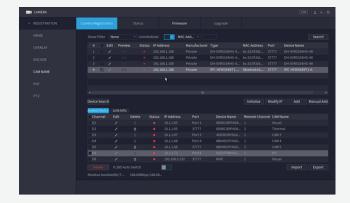
TCP/IP					, in the second s				
NIC Name	IP Address		NIC Member	Modify	Unbind				
NIC1	192.168.1.108	Single NIC	1						
IP Address: 19	2.168.1.108	Defau		2.168.1.1					
MAC Address:	a0:bd:1d:0b:c0		et Mask: 255.25	5.255.0	Mode: Static				
	IPv4								
Preferred DN		8.8. 8.4.							
Default Card	NIC1								
					I	4			
Test					Previous	Next			
	7. Enter your IP Address.								

**Step 3:** Add the camera during the initialisation stage.

Click Search Device and click Add after you select the camera you want to add to the device. Cameras can be added at this stage or later. Please make sure the IP address of the camera is within the same range of the NVR's IP address. Click Modify to change the IP address of the camera.

Cam	era List						
	IP Address			Search		lized	Initialize
	1 1	Modify	Live	Sta	atus IP Addı	ress	Manufact
			ĸ				
	Search Device	Add	Manua	l Add	lodify IP	Filter N	lone 🔻
	Added Device	Camera Li					
	Channel	Modify	Delete	Status	IP Address	Port	Device Na
		1					
		H.265 Auto				Import	Export
	Remaining Ba			os/328.00M			
						Previou	IS Next





After this initialisation has been completed the NVR will show live monitoring.

**Step 4:** You can also initialise the camera using the NVR.

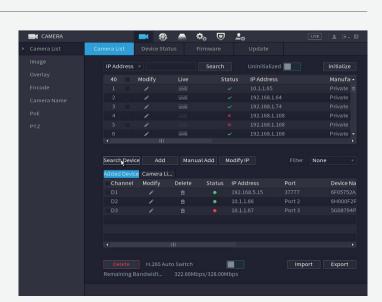
*Click* **Initialise** and use the original information of the NVR for the new camera.

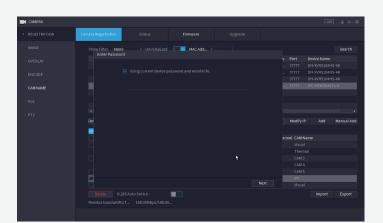
You can change the new camera's IP address on this screen. Please make sure the IP of camera is within the same range of the NVR's IP address.

Wait for the initialisation process to complete.

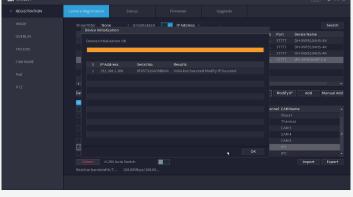
**Step 5:** Adding a camera after initialisation.

Click Camera > Search Device , and click Add to add the device.





				s Pc 37 37		evice Name H-XVR5104F H-XVR5104F	
AM NAME						H-XVR5104F	
						C-HFW3549	
			*				
		IP Address					Manual Add
	Back				CAM Nan Visual Thermal CAM 3 CAM 4 CAM 5 IPC Visual		
		uto Switch 📃					



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You can also manually add the camera by typing the target IP address, user name and password.

If the camera has been added successfully the new camera will be shown as the last of the added devices.

Channel	Modify	Delete	Status	IP Address	Port	Device Na
D1	ľ	亩	٠	192.168.5.15	37777	6F05752A



Right *click* back to the screen and the camera images will be displayed.

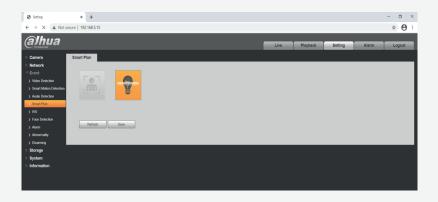


# 4. Key function configuration

### 4.1 For the camera-only system

#### 4.1.1 IVS

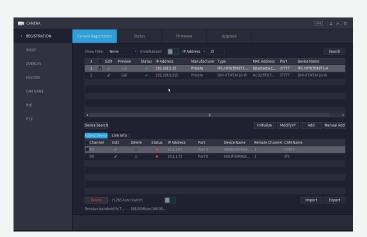
Step 1: Login to the camera, go to Setting > Event > Smart Plan , *click* **IVS** to activate the function and *click* **Save**.



Rule Type

Tripwire

**Step 2:** Go to **Setting** > **Event** > **IVS**, *click* the green + right hand corner to add new rules.



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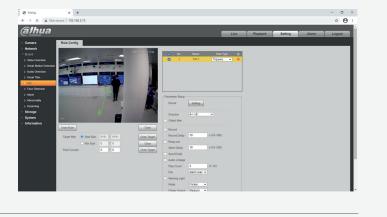
on the top

*Click* **Draw Rule** on the left hand side and use the mouse to draw a line for the target on the scene and set the parameter.

*Click* **Save** in the bottom right hand corner to complete.

From this moment onwards an alarm will be activated if the line is crossed.

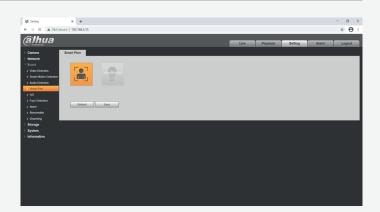
**Step 3:** *Click* **Alarm** on the top right hand corner if you want to review the type and details of any recorded alarms.



alhua			Live	Playback Setting	Alarm Logo
Atom Sam Data Charlow (Mark Mark Data Charlow (Mark Mark Charlow (Mark Mark Mark Mark Mark Aukin Denosa Mark Denosa Mark Denosa Mark Mark Mark Mark Mark Mark Mark Mark	2 2	1000 2000 1479 459 459 2000 1479 1479 1479 1479 1479 1479 1479 1479	Norsh per Tomor Topore	Sont P	Alam Chund

#### 4.1.2 Face Mask Detection

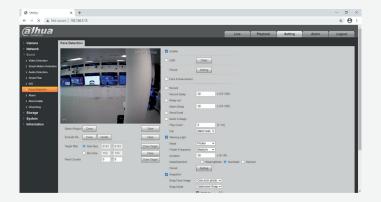
Step 1: Login to the camera, go to
Setting > Event > Smart Plan ,
click Face Detection to activate the
function and click Save.



Step 2: Go to Setting > Event > Face Detection , *click* the green Enable on the top right hand corner to enable the function.

*Click* **Draw** on the left hand side to draw the region for face detection by using the mouse to draw a shape for the target on the scene and set the parameter.

*Click* **Save** at the bottom right hand corner to complete.



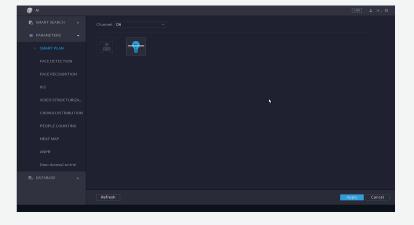
**Step 3:** To check the face detection alarm record details *click* **Alarm** on the top right hand corner and *tick* **V IVS** under the **Alarm Type**.

Alarm	× +					- a ×
$\leftrightarrow$ $\rightarrow$ X $\blacktriangle$ No	t secure   192.168.5.15					* \varTheta E
(alhua						
annua				Live	layback Setting	Alarm Logout
		No.	Time	Alarn Type	Source IP	Alam Chamel
Alarm Type		NO.	2020-12-14 17:34:27	Face Detection	Source IP	Aam chamel
Motion Detection	Disk Full	2	2020-12-14 17:34:28	Face Detection		
Disk Error	<ul> <li>Video Tamper</li> </ul>	3	2020-12-14 17:34:41	Face Detection		1
External Alarm	<ul> <li>Ilegal Access</li> </ul>	4	2020-12-14 17:34:41	Face Detection		1
Audio Detection	N8	6	2020-12-14 17:34:55	Face Detection		
Scene Changing	Voltage Detection	6	2020-12-14 17:34:50	Face Detection		1
Security Exception		1	2020-12-14 17:36:56	Face Detection		
		8	2020-12-14 17 38 57	Face Detection		1
Operation		9	2020-12-14 17:37:05	Face Detection		
Prompt		10	2020-12-14 17:37:07	Face Detection		1
		11	2020-12-14 17:37:59	Face Detection		1
		12	2020-12-14 17:38:00	Face Detection		1
		13	2020-12-14 17 39 02	Face Detection		
		14	2020-12-14 17 39 03	Face Detection		1

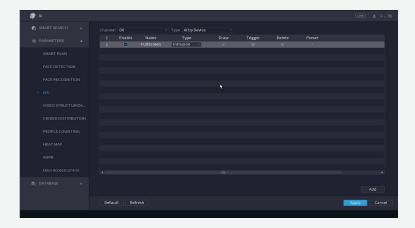
## 4.2 For the system using an NVR

#### 4.2.1 IVS

Step 1: When using an NVR, go to
Al > Parameters > Smart Plan,
click IVS to activate the function
and click Save .



Step 2: When using an NVR, go to
Al > Parameters > IVS, click
Add on the bottom right corner
to add a new rule for IVS function.



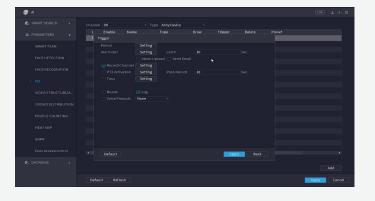
Step 3: Click Draw icon to draw the target line or area for detection and clickOK to confirm the IVS setting.



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**Step 4:** *Click* **Trigger** to decide the detailed settings for the rule.

*Click* **Apply** in the bottom right hand corner to save settings.



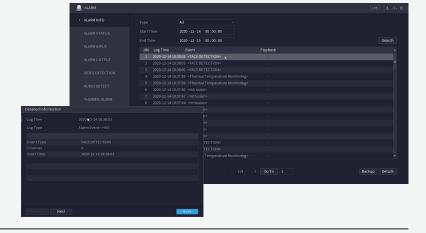
Step 5: Check the alarm.

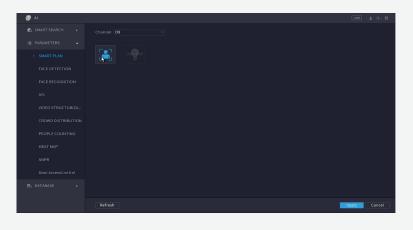
After rules have been set up, the system will record automatically. You can *click* **Alarm** on the top right hand corner of the main page, *click* **Alarm Info** and you can see it has recordings for **Face Detection**.

Click each record to see more details.

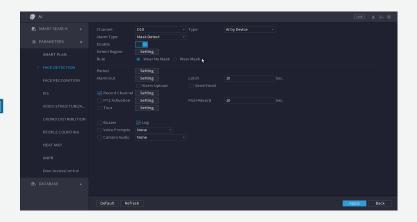
#### 4.2.2 Face Mask Detection

Step 1: When using an NVR, go toAI> Parameters> Smart PlanclickFace Detectionto activatethe function and clickSave





Step 2: Go to AI > Parameters > Face Detection and then choose type as AI by Device, alarm type as Mask Detect, enable the function and then *click* Apply in the bottom right hand corner.



*Click* **OK** to confirm the face detection settings.

**Step 4**: Right *click* to go back to the monitoring interface, right *click* and change **Preview Mode** to **AI Mode** and then you can see the details of the mask detection on the right hand side.

Step 5: Check the alarm.

*Click* **Alarm** on the top right corner of the main page, if you want to check the details of recorded alarms with different types, *click* | Alarm Info |, and you can see it has records for **Face Detection**.

*Click* each record to see more details. For example, the following record is about mask warning.

If you want to know more information about how this system works using the DSS application, or need help setting up any of Dahua's products, please call +44 (0)1628 613 500 or email support.UK@dahuatech.com

\* Design and specifications are subject to change without notice.

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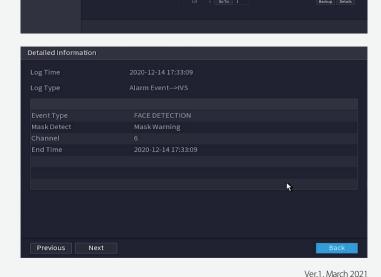
Quantum, 60 Norden Road,

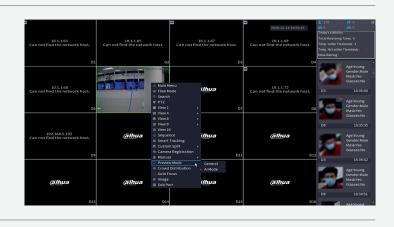
Maidenhead, Berkshire SL6 4AY

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**Step 3:** Click **Detect Region** and choose the region in which you would like to detect masks.



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