



WORLD'S PREMIER SAFETY CONSULTANTS

# ACUPICK 2.0

Just One Pick

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## Chain Supermarket of Country U

- **Background:** In supermarkets, it is common to see thieves stealing goods. For chain stores, a large amount of video data makes it difficult to retrieve the stealing behaviors, which takes a long time.
- **Pain Points:** Difficulty in identifying the perpetrators of theft incidents in supermarkets
- **Value:**
  1. Use AcuPick in multiple chain stores on the DSS platform
  2. Quick localization of supermarket theft incidents and preservation of relevant evidence
  3. Saving time for searching surveillance videos in supermarkets and reducing labor costs



### Device Topology



**ACUPICK 2.0**



## Garment Manufacturers of Country A

- **Background:** Previously, the manufacturers used analog systems for surveillance. When something was lost, or thieves broke in, managers had to slowly search frame by frame.
- **Pain Points:** Internal theft and unauthorized access by thieves cannot be quickly searched
- **Value:**
  1. Quickly search for targets and avoid further property damage
  2. Easy-to-operate, one-click search targets
  3. Shorten search time and reduce required labor costs



## Device Topology



**ACUPICK 2.0**



## Oil Refinery of Country Y

- **Background:** As an important industrial environment, an oil refinery requires strict safety measures to protect the lives of personnel, maintain equipment integrity, and prevent damage and theft.
- **Pain Points:** There are safety risks in oil refineries such as explosions, leaks, and fires, which can lead to casualties and significant property damage.
- **Value:**
  1. Quick localization of incidents in large scenarios
  2. Protect the safety of valuable chemicals and equipment
  3. Saving time for searching surveillance videos for avoiding further damage



### Device Topology



**ACUPICK 2.0**



# Pain Point



## Difficult to Locate Target

Before using AcuPick for surveillance, it is necessary to locate the target, which costs a lot of time.



## Limited Search Target Types

AcuPick only supports human and vehicle searches, resulting in the inability to quickly search for other target types.



## Target Path Not Intuitive

After identifying a large number of target videos, it is difficult to review the target trajectory.



## High Threshold for Use

AcuPick requires both the camera and NVR to support this feature, which requires a high threshold for use.

## AcuPick 2.0

After receiving feedback and collecting requirements from real-world scenarios, Dahua upgraded AcuPick from version 1.0 to 2.0 to provide a more convenient, accurate, economical, and compatible search solution for businesses.

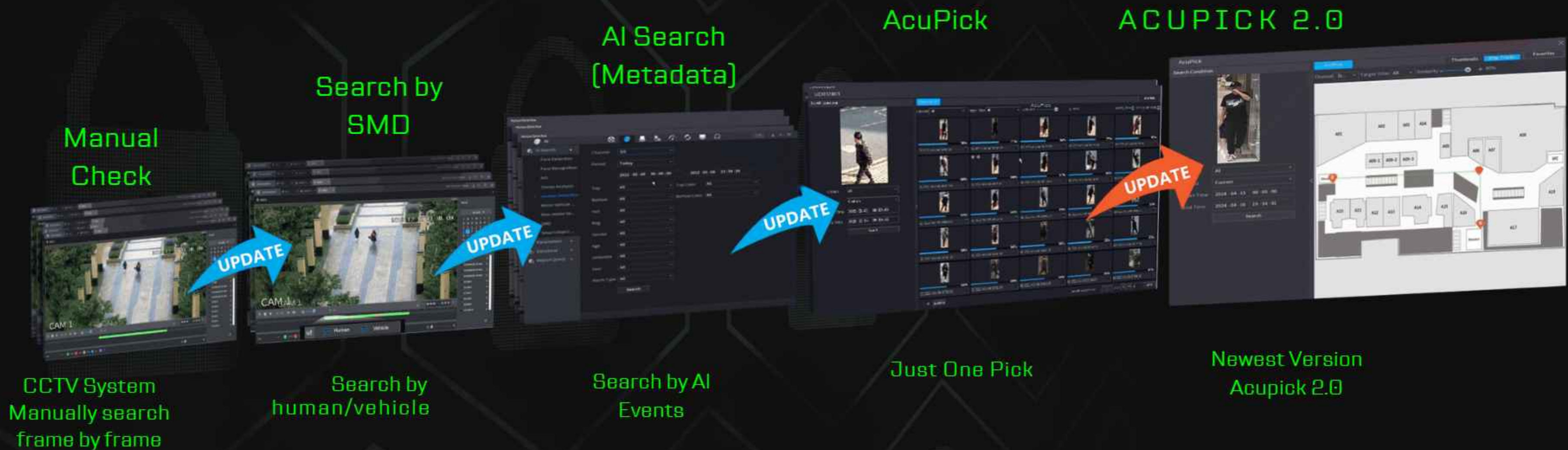






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# Search Method History





## Highlight

### Quickly and Accurately Locate Target

- Self-learning ensure accuracy of pre-search by intrusion or tripwire
- Pre-search by attributes
- Pre-search by image

### Rich Search Types

- Newly supports animal search
- Supports AcuPick and face recognition simultaneously

### Better Compatibility

- Compatible with third-party platform
- Compatible with various types of IPC

### Easily Trackable

- Intuitive result of target trajectory on map
- Manage search results



**ACUPICK 2.0**





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## Quickly Locate Target

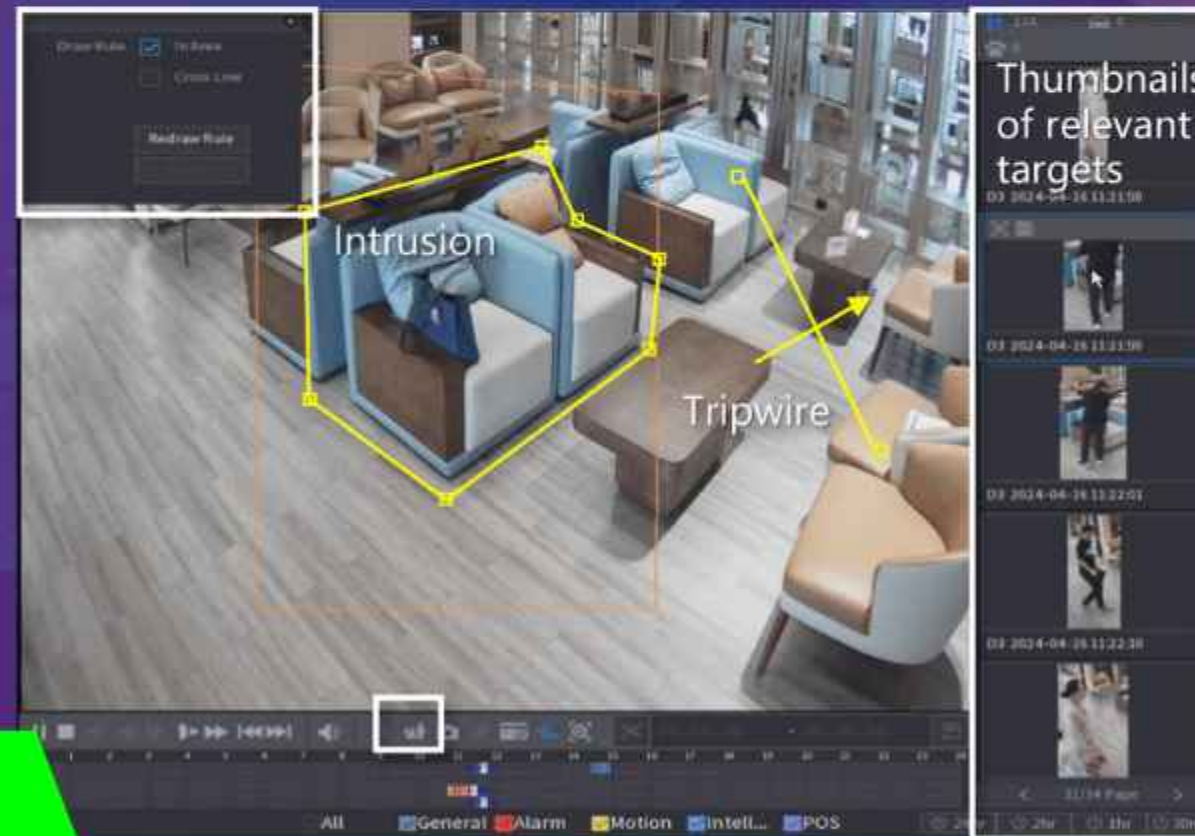
AcuPick 2.0 supports pre-search by intrusion and tripwire. With AcuPick, users can draw an irregular intrusion rule or tripwire to search for video clips in the preview and playback page, helping users quickly and easily identify the target who has entered the area. And users can click on the thumbnails to quickly lock the target and carry out AcuPick on it.

### Preview



**PRE-SEARCH BY INTRUSION OR TRIPWIRE**

### Playback



### AcuPick 1.0

### AcuPick 2.0

Target

- ☐ Human
- ☐ Vehicle

- ☐ Human
- ☐ Vehicle
- ☐ **Animal**
- \*Add Animal type

ROI

Intrusion

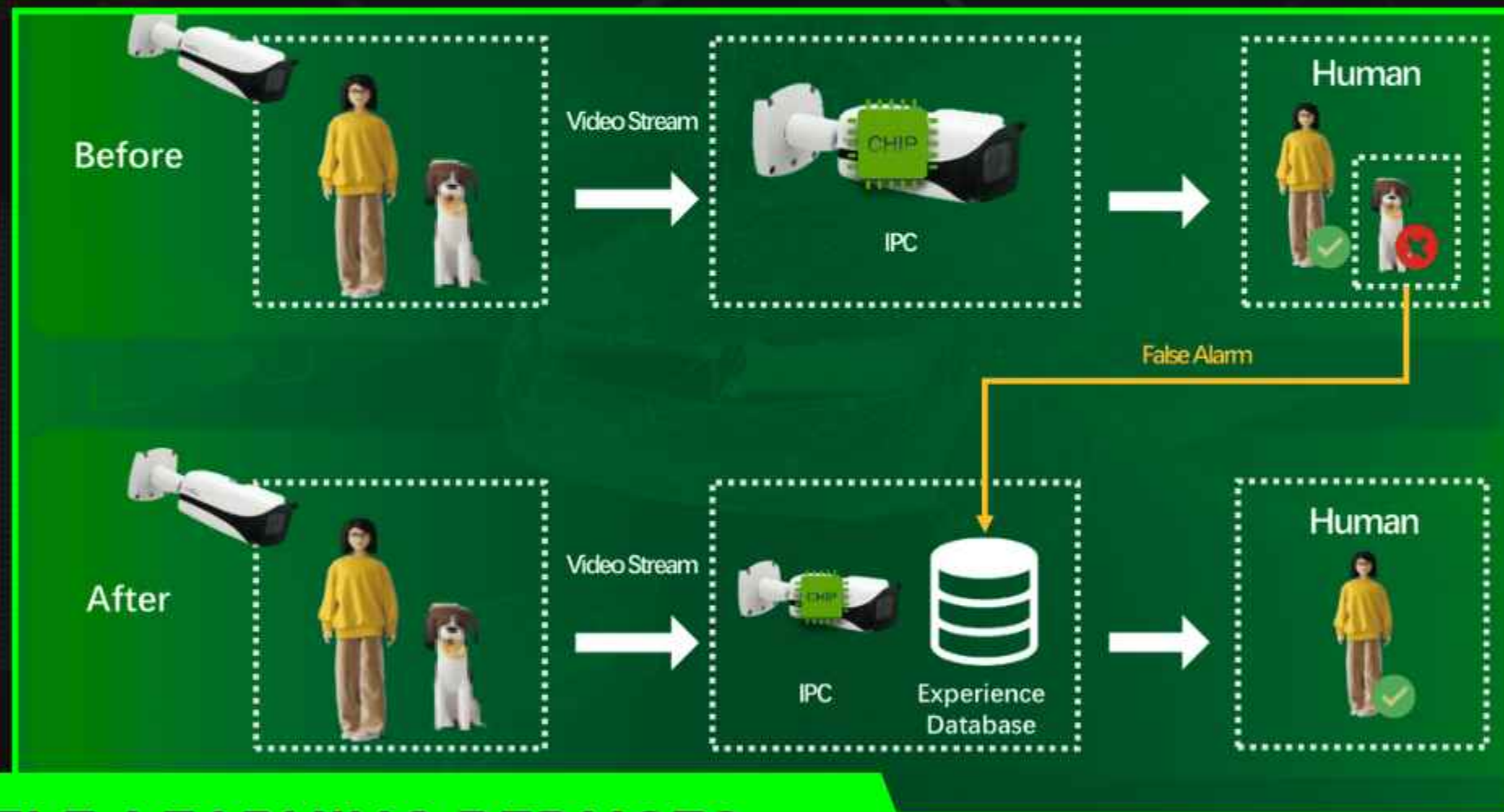
Intrusion  
Tripwire

\* Broken line  
can be drawn



To enhance the accuracy of pre-search by intrusion or tripwire, AcuPick 2.0 has launched the IVS self-learning technology, which can eliminate common false alarms in the same scenario by manually adding false alarms to the experience database\*.

## Principle

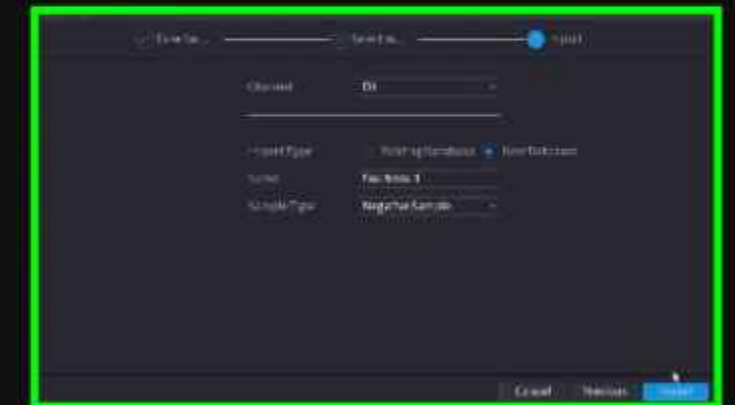


**IVS SELF-LEARNING REDUCES FALSE ALARM**

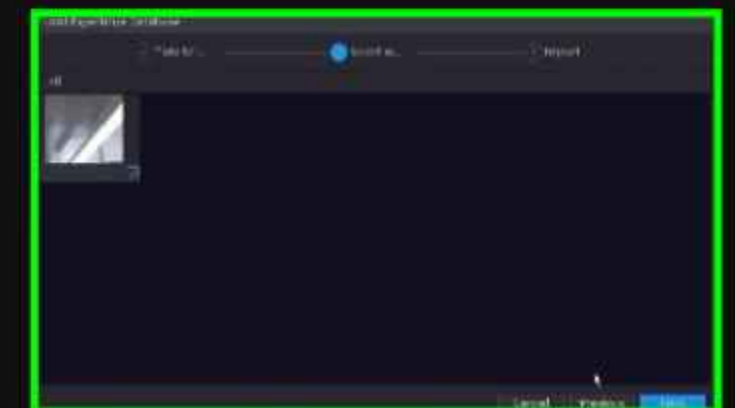
1. Take the Target



2. Select false alarm



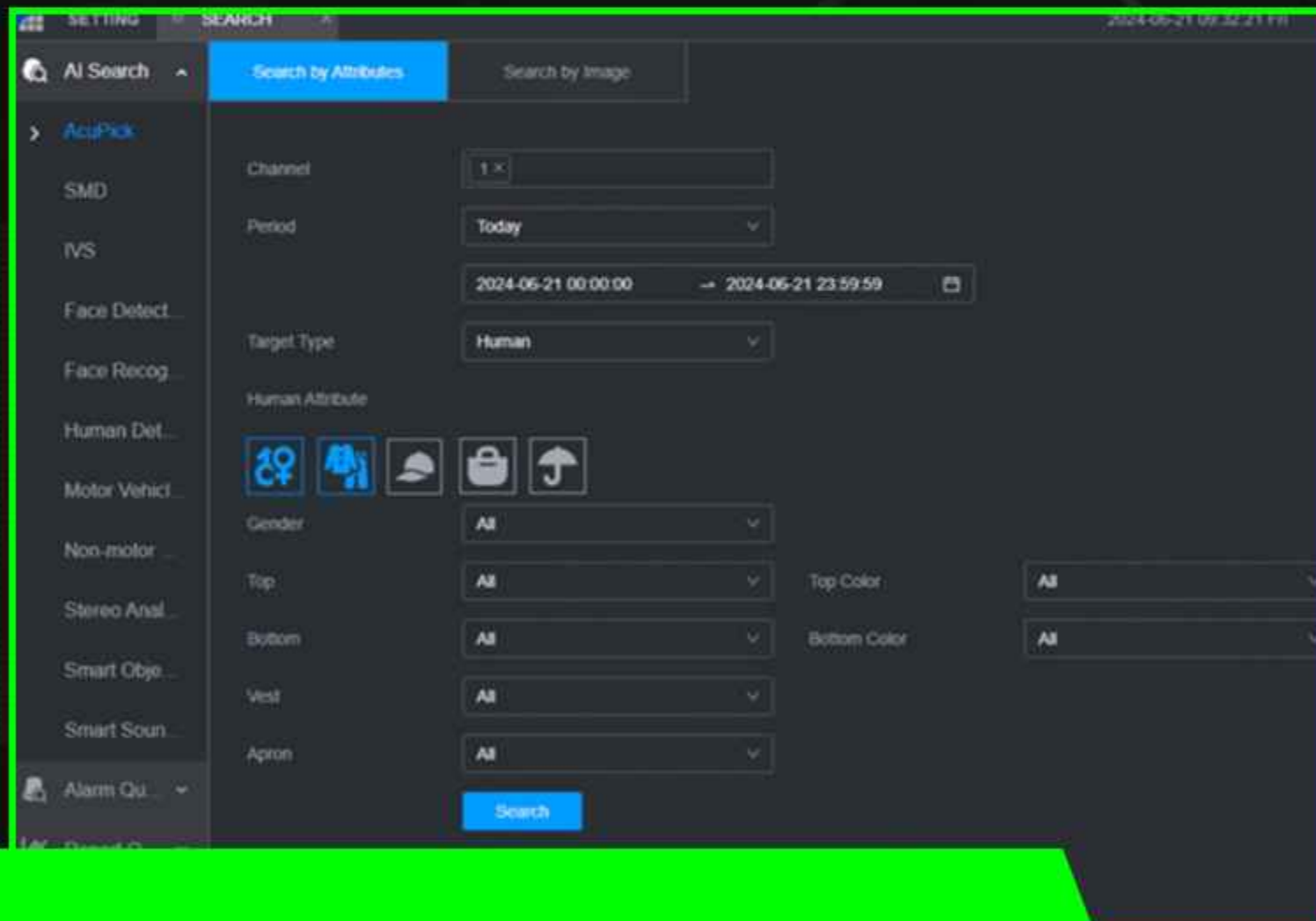
3. Import in database



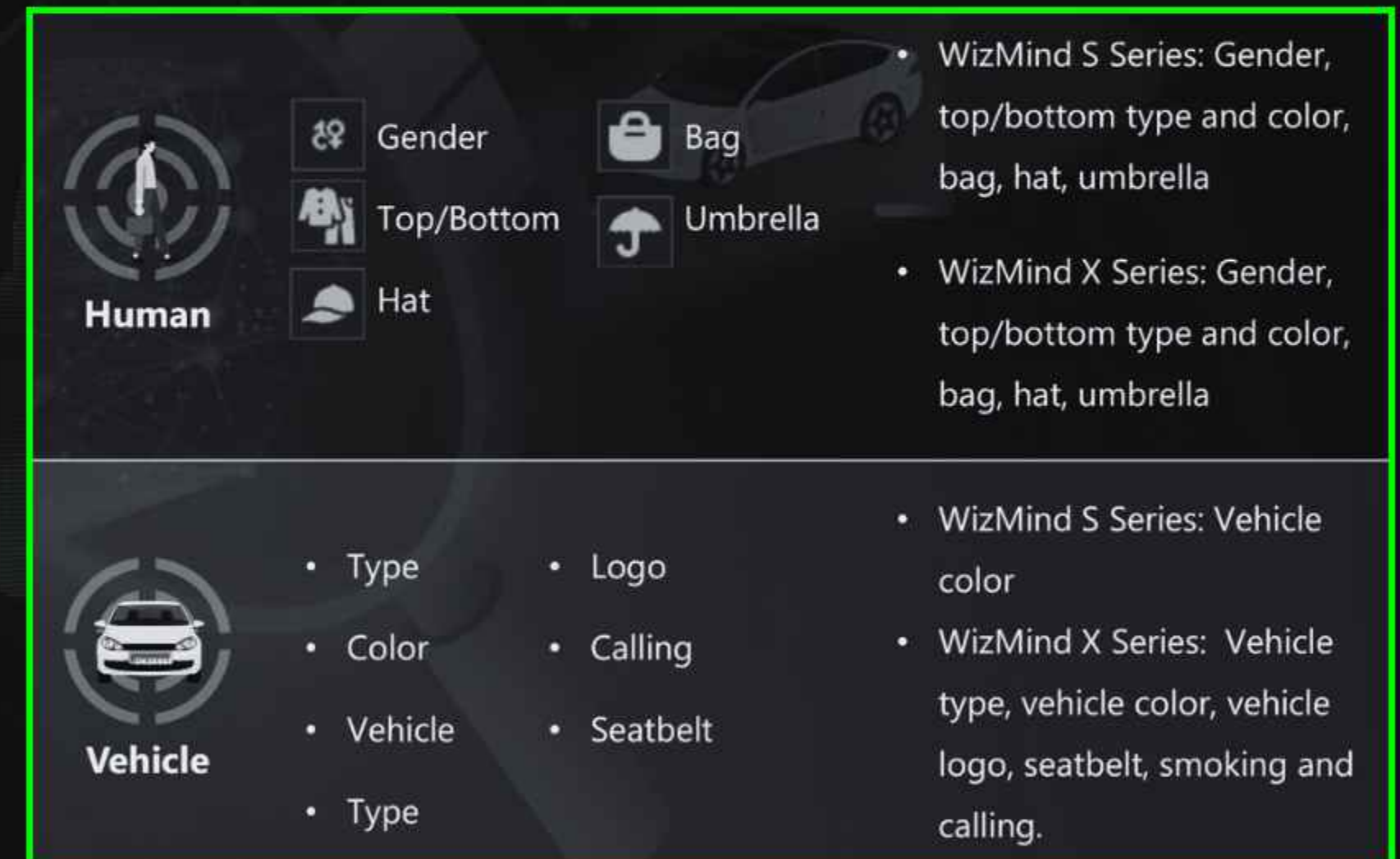


# Quickly Locate Target

Before using AcuPick, it is necessary to locate the target. However, in some scenarios, one may not know the exact time and place where the target appears but only know some attributes of the target therefore, AcuPick 2.0 newly supports pre-search by attributes, which can select attributes according to the known information of the target and search for targets that match the attributes\*.



## PRE-SEARCH BY ATTRIBUTES

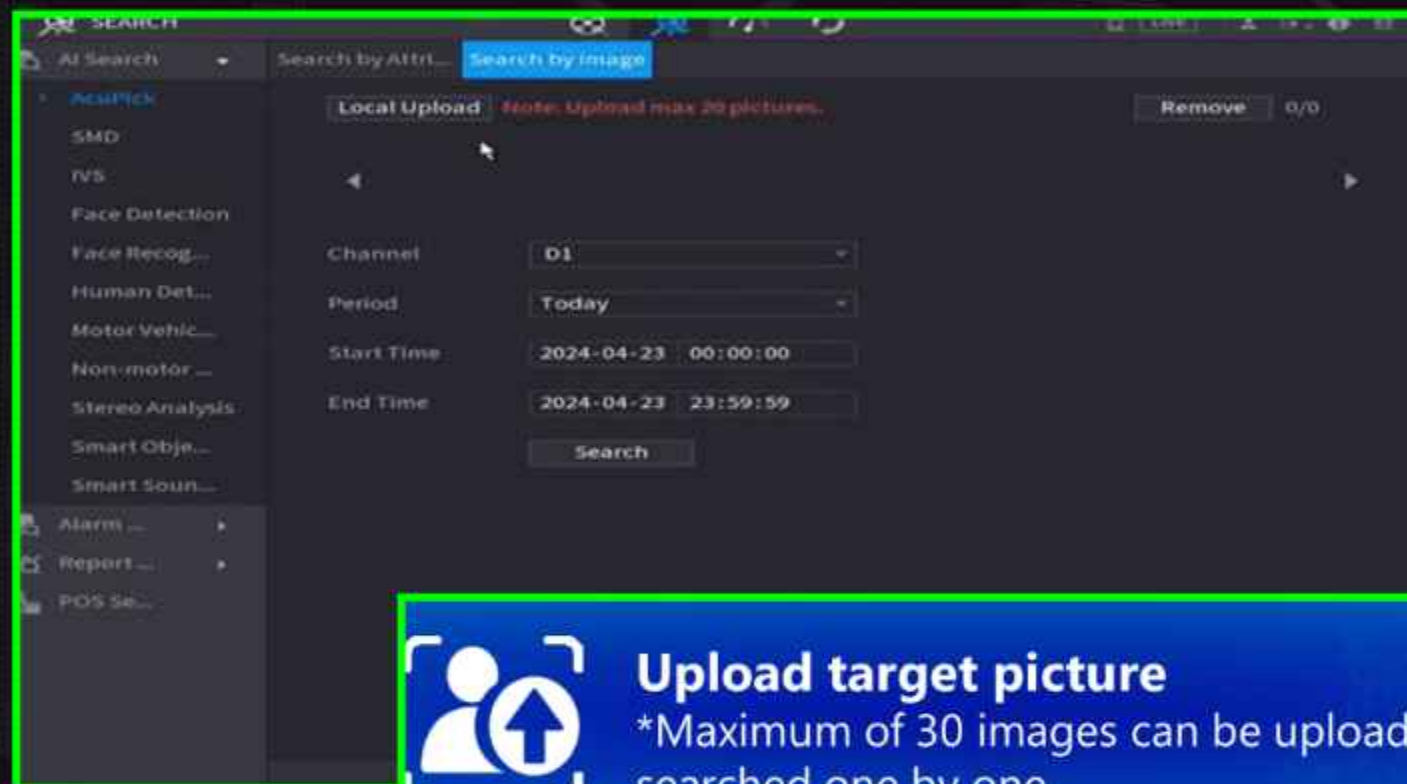


\*Supported by WizMind S Series IPC and WizMind X Series IPC.



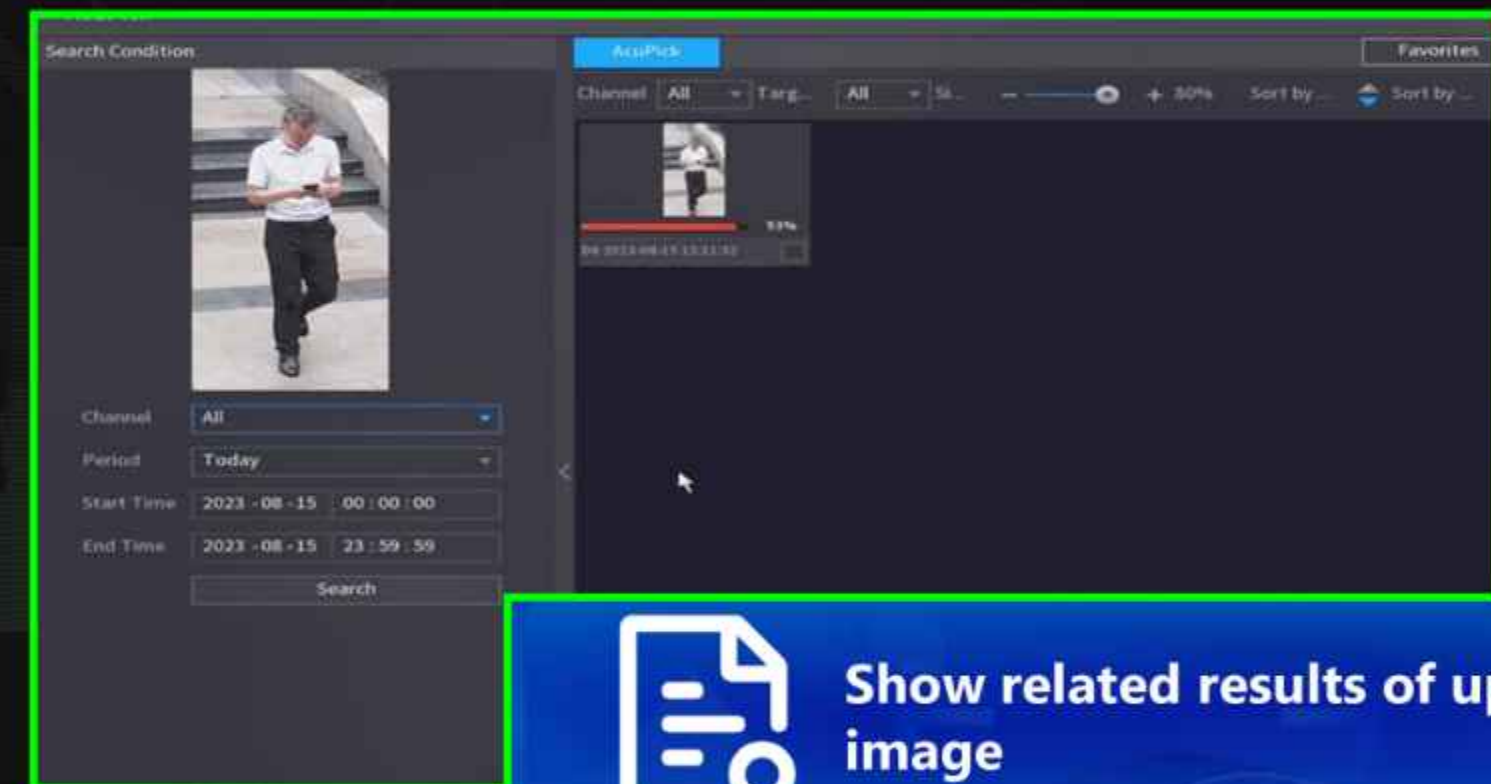
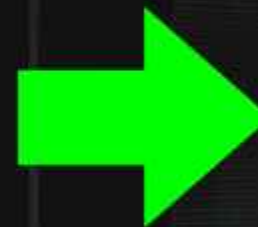
# Quickly Locate Target

AcuPick supports pre-search by image. With relevant images, users can locate the target accurately, which makes the search easier.



## Upload target picture

\*Maximum of 30 images can be uploaded and searched one by one



## Show related results of uploaded image

**PRE-SEARCH BY IMAGE**





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## Rich Search Types

AcuPick 2.0 supports target searches for humans, vehicles, and animals. Its precise detection and tracking capabilities make it an ideal choice for enhanced security and surveillance, catering to a wide range of applications.



**NEWLY SUPPORTS ANIMAL SEARCH**

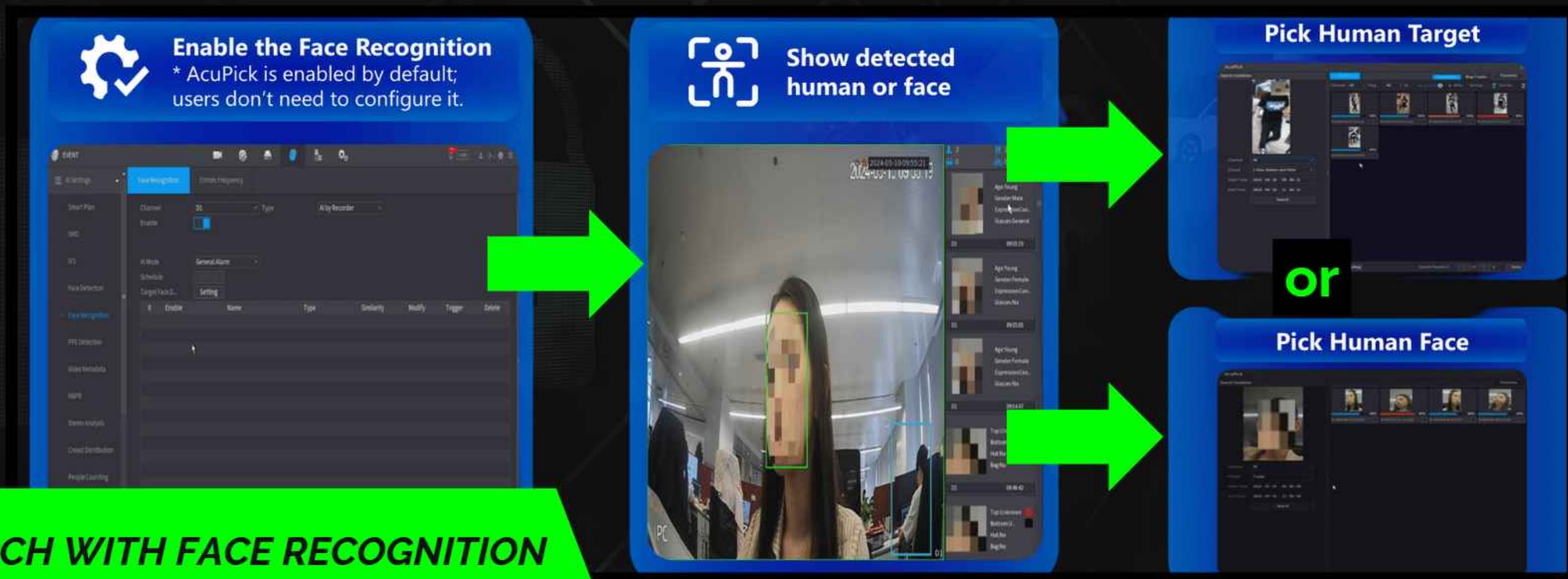




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## Rich Search Types

AcuPick 2.0 can be simultaneously enabled with face recognition on NVR5-XI or NVR6-XI. When both functions are active, individuals exhibiting suspicious behavior are identified and tracked. If such a person re-enters the premises, the system accurately alerts security personnel using face recognition, enhancing safety and security efficiently.

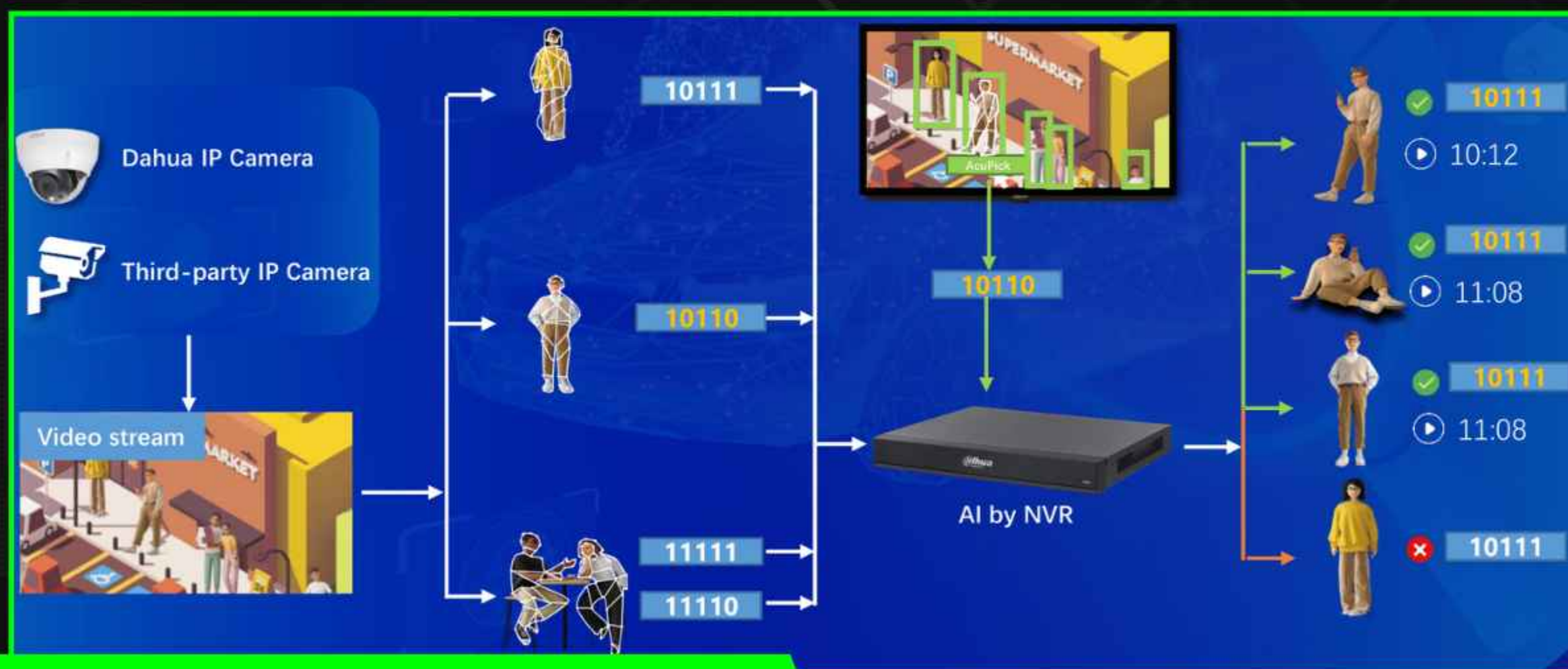


**SEARCH WITH FACE RECOGNITION**



AcuPick 2.0 integrates AI with NVR for compatibility with third-party and Dahua cameras, lowering usage thresholds and reducing construction costs.

## Principle



## Support IP Camera



In addition to the high-end IP camera, low-end series such as the 1 and 2 series IP camera can also use the AcuPick function



Supports third-party camera access to AcuPick function

**ACUPICK BY NVR**

\* Will be supported by NVR5-XI and NVR6-XI.

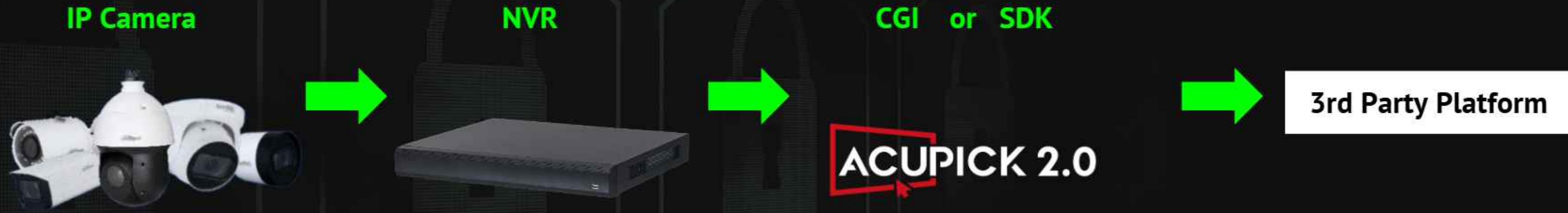




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## Better Compatibility

AcuPick 2.0 function can seamlessly and deeply integrate with various third-party platforms by supporting open CGI/SDK. The upgrade of compatibility enhances the flexibility and scalability of AcuPick, enabling it to fit broader application scenarios.



**COMPATIBLE WITH THIRD-PARTY  
PLATFORMS**

Supported Function:

- Pre-search by intrusion
- IVS self-learning technology
- Pre-search by attributes
- Pre-search by image
- Search for animals
- Results sorting, favorites, export

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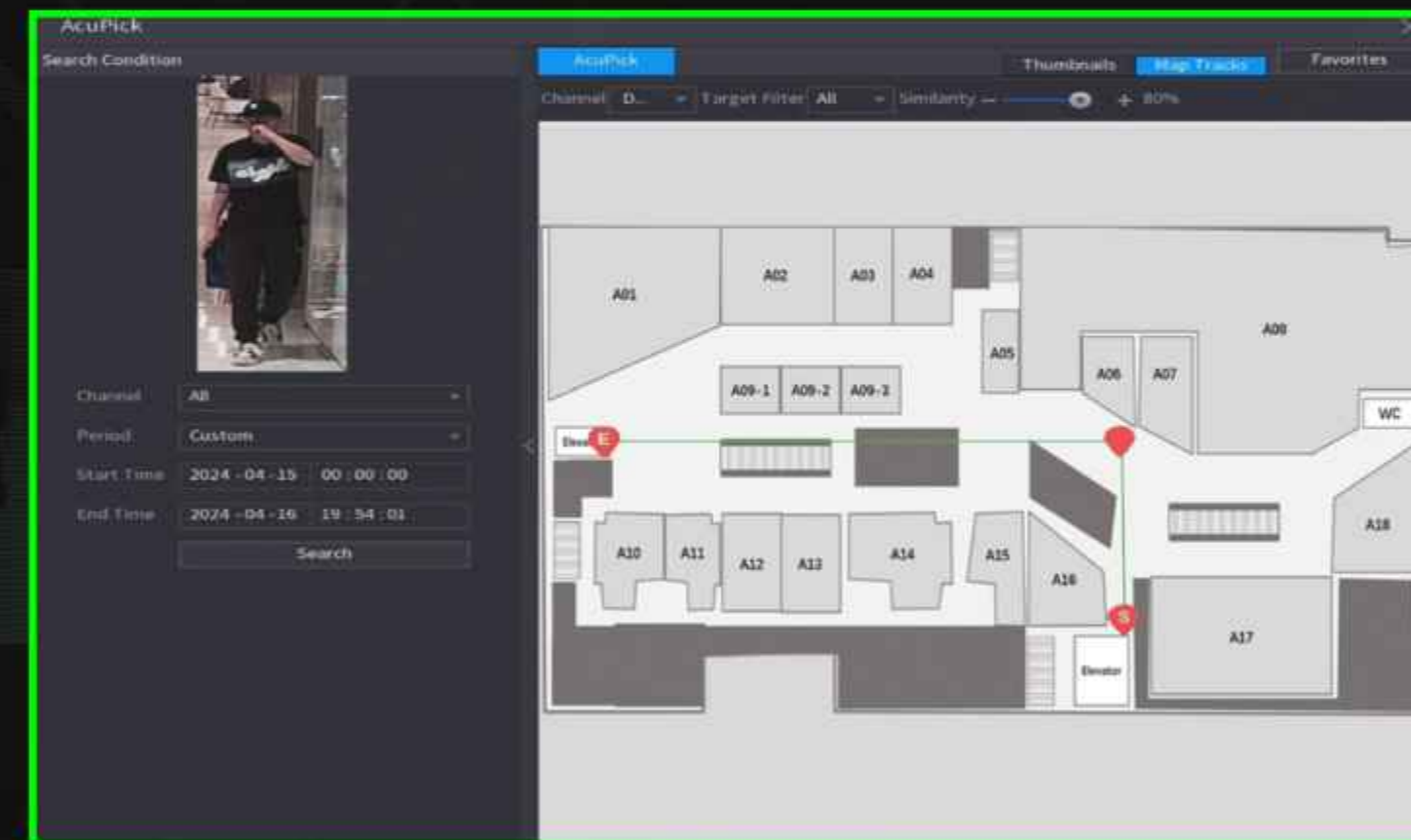


With AcuPick 2.0, we can review the trajectory of the target we are querying on the map so that we can quickly locate and identify the target we are looking for.

Users can upload maps and move cameras to its locations



When using AcuPick, a trajectory map of the target can be generated on the map



**TARGET TRACK QUERY**

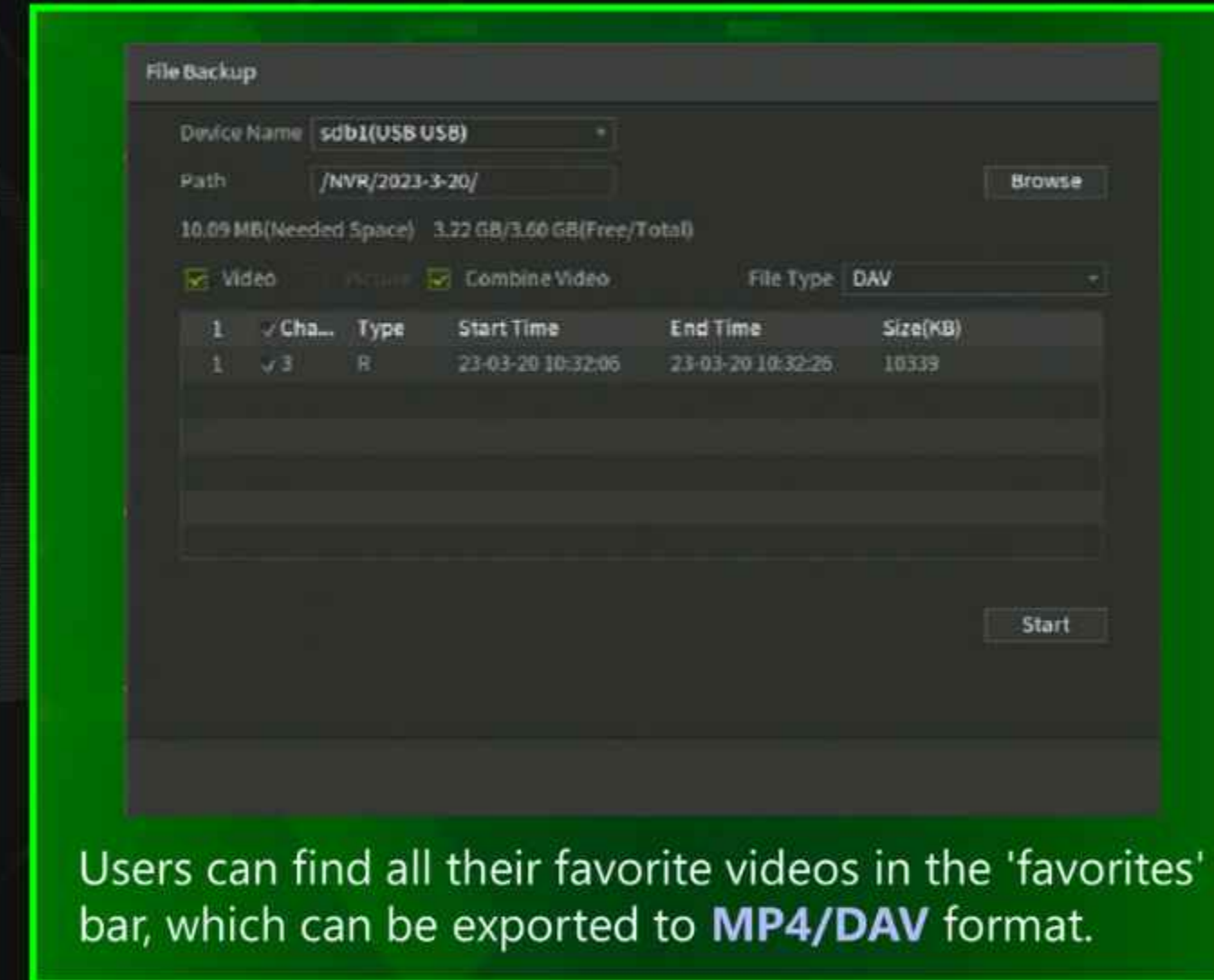
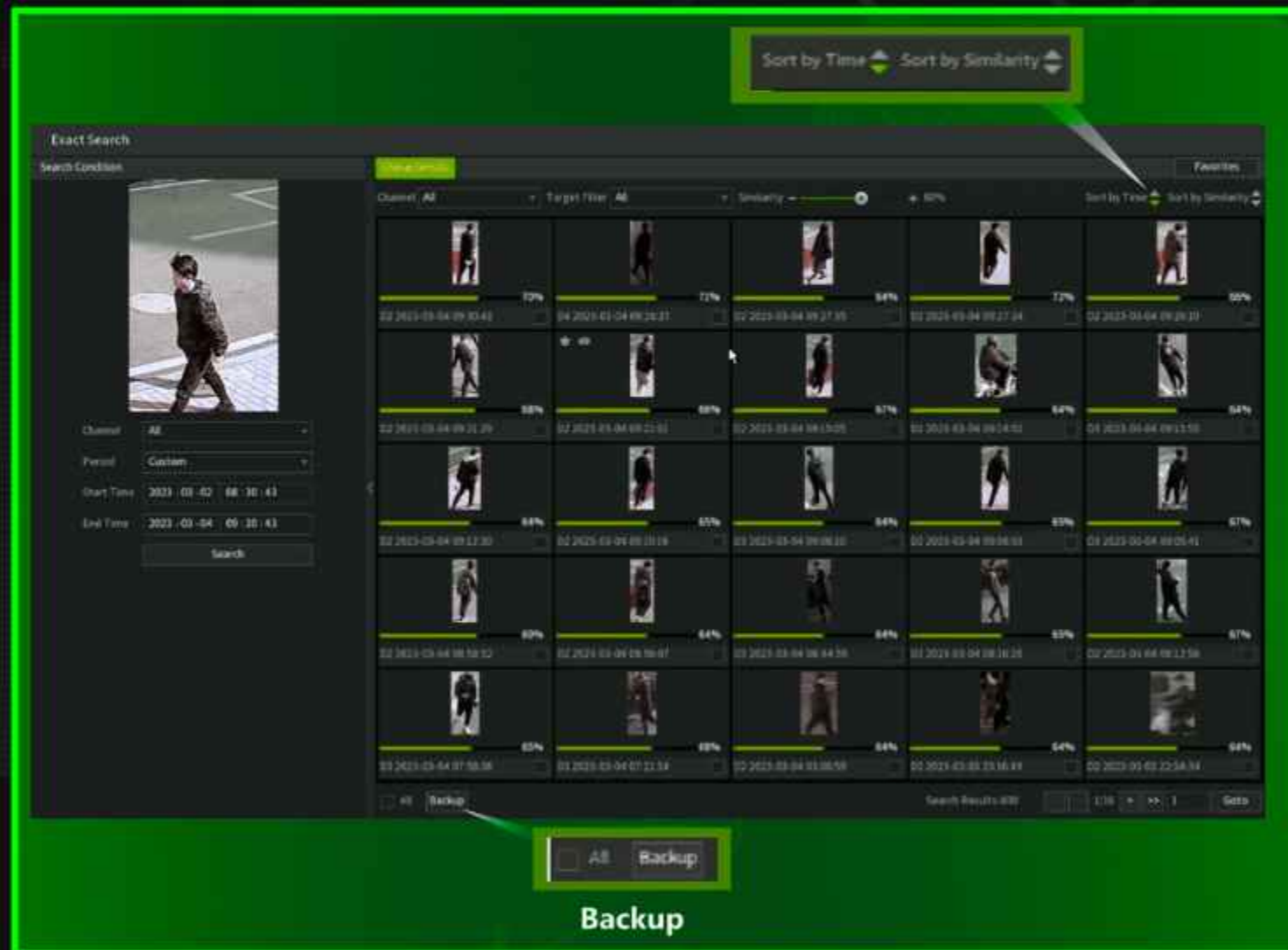




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## Easily Trackable

AcuPick supports managing search results classified according to time or similarity, favorite videos, hiding uninteresting videos, and exporting videos that need to be used. Build a comprehensive set of video evidence from multiple video sources to create a powerful narrative of events.



Users can find all their favorite videos in the 'favorites' bar, which can be exported to **MP4/DAV** format.

**FLEXIBLE SORTING, FAVORITES & EXPORT**

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**ACUPICK 2.0**



Function	Dahua AcuPick 2.0	HIK AcuSearch	Avigilon Appearance Search
Pick Target in Preview	√	X	X
Pick Target in Playback	√	√	√
Pre-search by Intrusion/Tripwire	Supports irregular ROI target thumbnail	Can only search by regular tripwire or area	Can choose different types of rules
Pre-search by Attributes	√	X	√
Pre-search by Image	√	√	√
Supported Target Types	Human, Vehicle, Animal	Human, Vehicle	Human, Vehicle
Video Result	Associate with Map	Only Shown in List	Associate with Timeline



# Loss of Property

## • Scenario Description

Property safety is particularly important in daily life. When property is lost, it is necessary to quickly investigate the situation, define the scope of damage, and quickly recover the lost property.

## • Pain Point

When property is lost, limited manpower makes it difficult for managers to quickly investigate the entire large area, causing a delay in sending information to the police.

## • Business Process



## ➤ Value

- Assist in timely discovering or eliminating suspicious situations
- Quickly provide information about lost property
- Convenient to query the movement routes of suspicious individuals





# Seek the Robber

## • Scenario Description

In a narrow passageway with sparse foot traffic, personal safety and property safety are difficult to ensure. It is important to quickly monitor the area and be aware of potential dangers to prevent any further harm or loss.

## • Pain Point

When being robbed or faced with a personal safety threat, it is necessary to quickly locate the victim or the robber. Pre-search by attributes can help us rapidly find out the target. Through target track query, we can quickly find the location of the target, which can minimize further losses.

## • Business Process



## ➤ Value

- Promptly locate the target to effectively reduce further losses caused by time delays
- Pre-search by attributes to quickly locate victims and potential threats
- Intuitively and quickly display the target's trajectory





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## • Business Process



## ➤ Value

- Promptly locate the target to effectively reduce further losses caused by time delays
- Pre-search by attributes to quickly locate victims and potential threats
- Intuitively and quickly display the target's trajectory



## • Scenario Description

Pets will jump up and down in the villa and run around aimlessly throughout every corner of the house while the pet owner is not at home.

## • Pain Point

Pet owners want to know where their pets played on a day when they are not at home, and sometimes even want to save videos of their pets for daily recording.

## • Business Process



## ➤ Value

- Helps pet owners in accurately tracking their pet's movements
- Helps pet owners in collecting and saving pet video







## Highlights

- Supports **up to 32-ch AcuPick** with IPC 3 series, providing a cost-effective solution for users
- Supports **pre-search by intrusion/tripwire or image, target track query**

## Product Selection

IPC		<ul style="list-style-type: none"> <li>◆ WizSense 3X49-IL Series (Will be released in Aug.)</li> <li>◆ WizSense 3 TiOC S5/PRO Series</li> </ul>
PTZ		◆ SD4-G Series (except 8MP model)
NVR		◆ NVR5X-EI Series

## Typical Scenarios



Villa



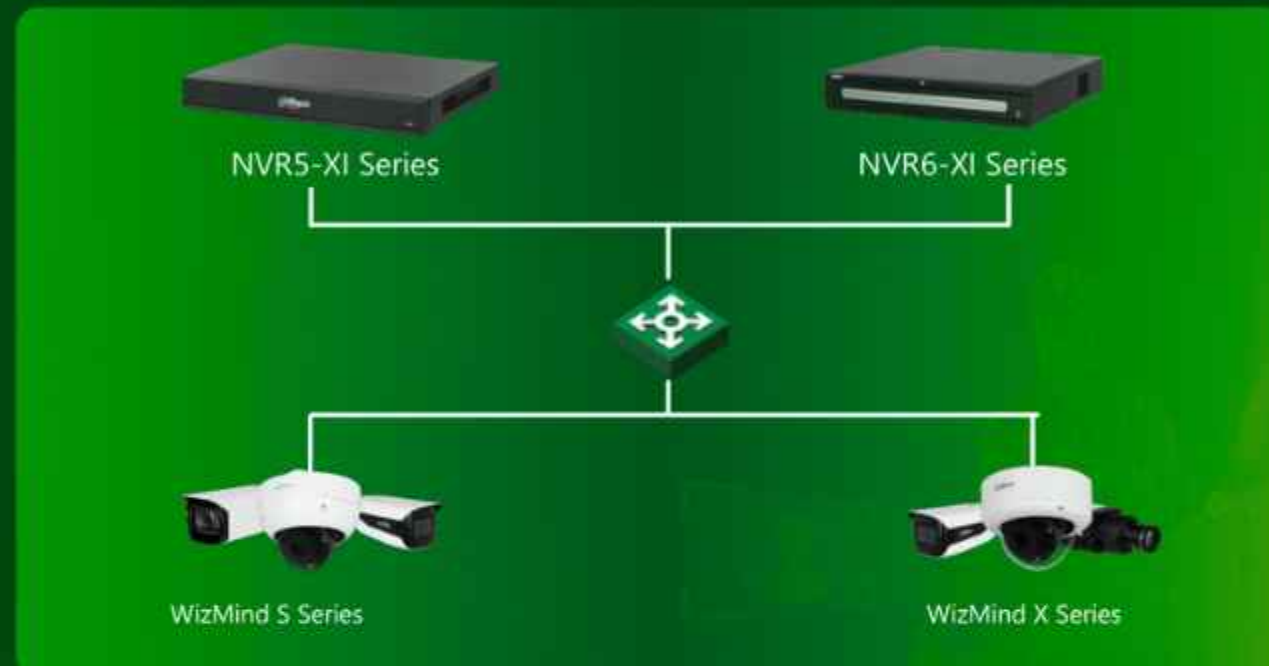
Retail



Restaurant

**UP TO 32-CH ACUPICK ENTRY LEVEL SOLUTION**





## Highlights

- Supports **up to 64-ch AcuPick** with a good user experience
- Supports **pre-search by attributes**: WizMind S series IPC supports **clothing colors, gender, etc.**; WizMind X series IPC supports **all attributes (Human/Vehicle)**
- Supports pre-search by **intrusion/tripwire, and image** for quickly locating human, vehicle, and **animal**

## Product Selection

IPC



- ◆ IPC WizMind S Series
- ◆ IPC WizMind X Series

NVR



- ◆ NVR5-XI Series
- ◆ NVR6-XI Series

## Typical Scenarios



Factory



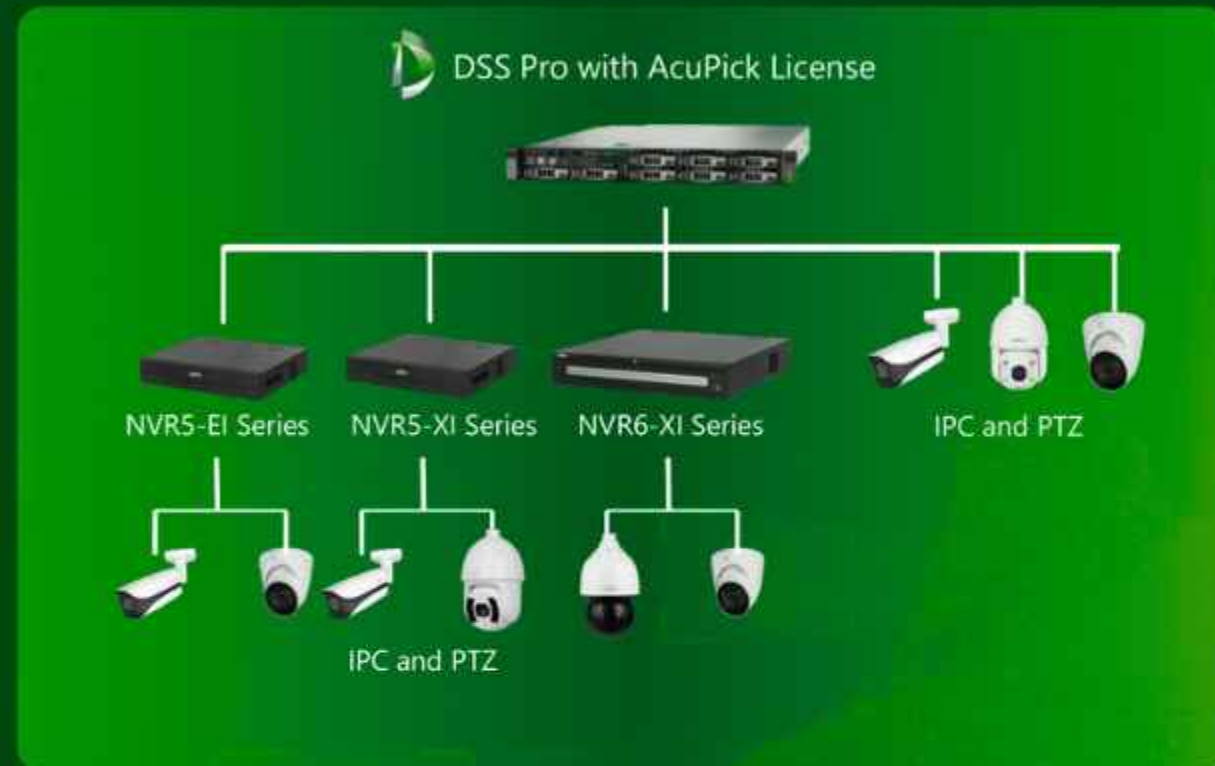
Enterprise



Parking lot

**UP TO 64-CH ACUPICK HIGH LEVEL SOLUTION**





## Highlights

- Supports **more than 64-ch AcuPick** by using the DSS platform
- Supports **pre-search by intrusion/tripwire, and image** for quickly locating targets
- Supports **pre-search by attributes**: WizMind S series IPC supports **clothing colors, gender, etc.**; WizMind X series IPC supports **all attributes (Human/Vehicle)**
- With centralized DSS Pro, it enables **device interconnection and AcuPick across multiple devices** in large-scale scenarios

## Product Selection

IPC		<ul style="list-style-type: none"> <li>◆ IPC WizMind S Series</li> <li>◆ IPC WizMind 5(S2) Full-color Series</li> <li>◆ IPC WizMind X Series</li> </ul>
PTZ		<ul style="list-style-type: none"> <li>◆ SD5/6C-G Series (except 8MP model)</li> </ul>
NVR		<ul style="list-style-type: none"> <li>◆ NVR5-EI Series</li> <li>◆ NVR5-XI Series</li> <li>◆ NVR6-XI Series</li> </ul>
Software		<ul style="list-style-type: none"> <li>◆ DSS Pro</li> </ul> <p><b>How to use DSS AcuPick</b>  <a href="https://gks1.dahuasecurity.com/zh/detail/478670?category_id=159997">https://gks1.dahuasecurity.com/zh/detail/478670?category_id=159997</a></p>

## Typical Scenarios



Chain Store



Traffic



Airport

**MORE THAN 64-CH ACUPICK  
LARGE-SCALE SOLUTION**





## Product Selection

IPC		<ul style="list-style-type: none"> <li>◆ IPC 1 Series</li> <li>◆ IPC 2 Series</li> </ul>
PTZ		<ul style="list-style-type: none"> <li>◆ SD1/2/3 Series</li> </ul>
NVR		<ul style="list-style-type: none"> <li>◆ NVR5-XI Series</li> <li>◆ NVR6-XI Series</li> </ul>

## Highlights

- Supports **AcuPick by recorder**, AcuPick can be utilized by Dahua IPC 1 & 2 series or third-party cameras
- Supports **pre-search by intrusion/tripwire or image, target track query**

## Typical Scenarios



Shop



Subway Station



Park

**RENOVATION OF OLD SCENES**





## WizSense 3 Series

WizSense 3 TiOC S5/PRO Series  
WizSense 3X49-IL Series (Will be released in Aug.)

- **Support AcuPick which is enabled by default.**
- Smart Dual Light: Freely switch illumination mode.
- SMD 4.0, Perimeter Protection focus on human and vehicle.
- AI SSA: Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.
- AI Coding ABR: ABR(Average Bit Rate) coding strategy for better image quality and save bandwidth.



## WizMind S Series WizMind 5(S2) Full-color Series

IPC 5842/5541/5442/5241(-Z(S3))  
IPC-5X49-LED(S2)

- **Support AcuPick which is enabled by default.**
- Enhanced image effect with AI-ISP (WizMind S Series)
- Supports AcuPick with attributes (WizMind S Series)
- Perimeter Protection self-learning further reduces false alarms (WizMind S Series)
- Perimeter Protection focus on human, vehicle and animal (WizMind S Series)
- Rich AI functions, Video Metadata, Perimeter Protection, People Counting, Face Detection, Heat Map, etc.
- Dual power backup(except box cameras), Plastic-free package
- P-iris, Anti corrosion, Dual Mic, Heater



**WizMind X Series**

- **Support AcuPick function with attributes**
- Enhanced image effect with AI-ISP
- Perimeter Protection self-learning further reduces false alarms
- Perimeter Protection focus on human, vehicle and animal
- AI Function: Supports face recognition, face detection, IVS, people counting, video metadata, PPE Detection, parking space management and ANPR, etc.
- IP67 and IK10 protection. Anti-Corrosion coating(optional).
- Dome: Built-in dual MICs; 1-ch speaker; supports two-way talk. Supports Sound Management.

\* FW Will be released in July

**SD6C/5/4-G Series**

\* 8MP models do not support AcuPick

- **Support AcuPick which is enabled by default.**
- Perimeter Protection self-learning further reduces false alarms
- Perimeter Protection focus on human, vehicle and animal
- AI Function: Video Metadata (SD6C/5-G Series), Face Detection, SMD 4.0, Perimeter Protection
- Auto Tracking 3.0 (SD6C/5/4E), Auto Patrol , PFA 3.0
- Built-in speaker, red & blue alarm lights (SD6C3/4E)
- 45/32/25x optical zoom



**NVR5-EI Series**

- **Support up to 32-channel AcuPick (with AcuPick IPC/PTZ)**
- 32ch@1080P decoding capacity.
- Max. 384Mbps incoming/recording/outgoing bandwidth.
- 2-channel Face Detection and Recognition, 4-channel Perimeter Protection, 8-channel SMD Plus.

**NVR5-XI Series**

- **Support up to 36-channel AcuPick (with AcuPick IPC/PTZ)**
- **Supports AcuPick by NVR**
- 32ch@1080P decoding capacity.
- Max. 512Mbps incoming/recording/outgoing bandwidth.
- 8-channel Face Detection and Recognition, 8-channel Video Metadata, 24-channel Perimeter Protection, 32-channel SMD Plus.

\* Custom version

**NVR6-XI Series**

- **Support up to 64-channel AcuPick (with AcuPick IPC/PTZ)**
- **Supports AcuPick by NVR**
- 32ch@1080P decoding capacity.
- Max. 1280/1280/1024Mbps incoming/recording/outgoing bandwidth.
- 8-channel Face Detection and Recognition, 8-channel Video Metadata, 32-channel Perimeter Protection, 32-channel SMD Plus.

\* Custom version







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# GET IN TOUCH WITH US



**RMFC INC.**  
11835-149 Street  
Edmonton, Alberta  
T5L 2J1

 [www.rmfc.ca](http://www.rmfc.ca)  
 [info@rmfc.ca](mailto:info@rmfc.ca)

**RMFC RMFC RMFC RMFC RMFC RMFC RMFC RMFC**