

The Arcules logo features the word "arcules" in a white, lowercase, sans-serif font. Above the letter "u" is a white arc that spans the width of the letters "a" and "u".

arcules

# forensic video search

feature overview



# challenges solved



## Evidence collection

- Collecting video evidence after a security event can be very time consuming.
- Evidence may occur before the event, after the event and across multiple camera views.
- Resulting video needs to be collected and shared without compromising validity.



## Immediate event

- When an incident is occurring, it's critical to be able to quickly understand the event details to share with first responders.
- The ability to quickly search for a specific target and share location and time stamps can be key.

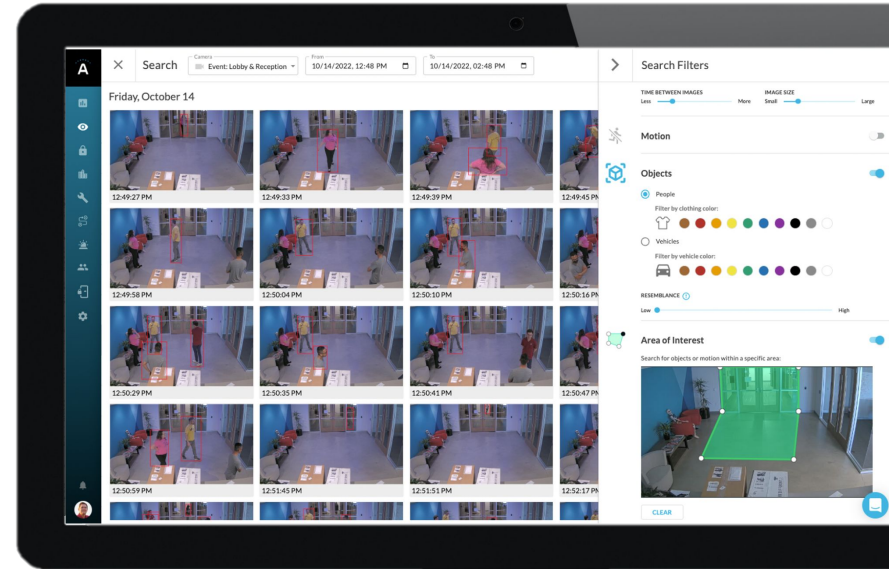


## Safety/biz ops

- It can be very time consuming to find safety violations or accident footage.
- It can also be difficult sharing the resulting video evidence for review by authorities or other members of the safety team.

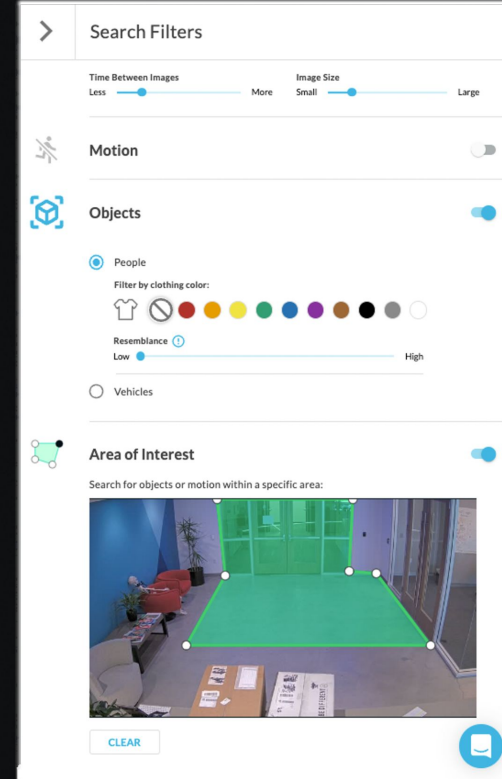
# forensic search

- Quickly search through recorded cloud-stored video from any of **6000+ cameras**.
- Select **specific regions** of interest, **object type** and **color** attributes.
- Highly **accurate** object detections
- Reduce time spent collecting **video evidence** or reacting to real-time events.



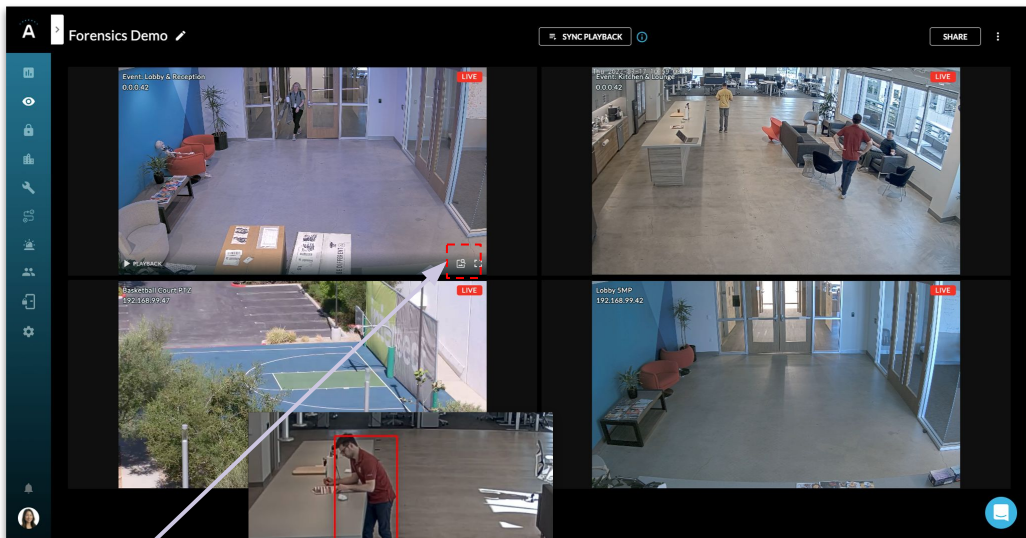
## features

- Adjust search thumbnail **image size**
- Quickly change **time interval** between search thumbnails
- Focus your search by object type (**Person or Vehicle**). Object **bounding boxes** appear for quicker object identification.
- Further refine search results by **color** and by selecting desired level of **resemblance**.
- Define a specific **search area** within the camera field of view
- Quickly **share** video or **save** video to a case for evidence



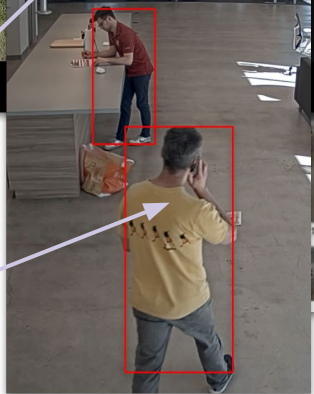
Search Focus Parameters:

- Thumbnail Size
- Time Between Images

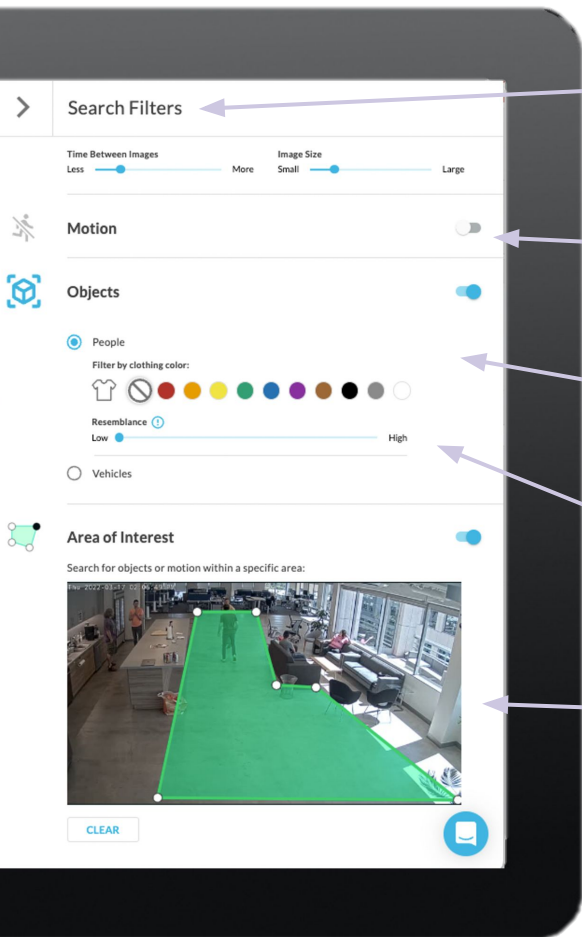


Start Forensic Search

Object Bounding Boxes



Forensic Search Options Panel



Filters Panel  
(expanded)

Video Motion  
Search

Forensic Search by  
object **type** and **color**

Further refine with  
**resemblance** level

Select an **area of  
interest** (if desired)

# Video Search Filters Panel



## details

Select Camera

Set search date and time

Search Results Thumbnails

Target Bounding Boxes

Forensic Search Panel

Search by object type and color

Refine by resemblance level

Select an area of interest if desired

## example use cases



### TAILGATING

Rapid people search for reported instance of multiple door entries on a single badge swipe.



### SAFETY / ACCIDENT

Search cameras for people in a specific region where a slip-and-fall accident was reported.



### PROPERTY DAMAGE

Perform a search for unauthorized vehicles reportedly driving on exercise courts.



### SECURITY EVENT

Search for a reported altercation between two individuals. One reportedly wearing a specific shirt color.



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# faqs

## **Is Forensic Search available on Edge Gateways?**

No. At this time, both forensic video search and cloud based video analytics are only available for customers with Cloud subscriptions using Cloud Gateways.

## **How long is Forensics data kept for? How far back can I search?**

Forensics data is kept as long as video data. So if a camera has retention period set for 30 days, forensics data is kept for 30 days and a user can go back up to 30 days for a typical camera to search data.

## **I have seen bounding boxes drawn on top of people and vehicles. How are bounding boxes drawn?**

Bounding boxes are rectangles drawn over detected objects. For a person the bounding boxes will include a person from head to toe. For vehicles the boxes will encompass the complete vehicle.

## **What objects are considered a vehicle in a forensic video search?**

Within the Forensic Search feature, a vehicle is defined as a 'bicycle', 'bus', 'car', 'motorcycle', 'truck', or 'van'

## **Does Forensics AI require a separate video stream?**

No, it only requires 1 video stream. It infers on recorded video rather than live so if the recording is behind (e.g. internet is down or b/w management is enabled) you won't be able to perform search until the data has reached the cloud.

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# faqs

## **Does Forensics AI require a separate video stream?**

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## **What is the “Resemblance” setting?**

The resemblance setting is a way a user may adjust the accuracy of the Forensic Video Search results. Setting resemblance may eliminate results which are occluded or have a low confidence level. Setting a lower resemblance level may allow results that include targets which the AI has less confidence in being the object class related to the search.

## **Do I need the cloud analytics add-on to use forensic video search?**

No. Forensics Video Search is not dependent on having a Cloud Video Analytics subscription. You can apply Forensic Video Search capability to any camera that's connected to a cloud gateway. As a reminder, Forensic Video Search is a tool to look at recorded video, while cloud analytics is used to create real time alarms and dashboard information. Refer to this chart for a more detailed look at the differences between Video Search, Forensic Video Search and Cloud Analytics.

## **Is Forensic Video Search available for all regions?**

Yes, Forensic Video Search is available for all customers in the US, EMEA and APAC.

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# faq

## **Does Forensic Video Search replace the existing Video Motion Search?**

No. Forensic Search is intended to be a more detailed search when some search parameters are known, such as I'm looking for a person. Video Motion Search is still a valuable search tool when a user wants to only search on motion. This might be when the parameters of the search may be unknown or when a user is looking for video clip from a known camera and/or an approximate time. See the chart which follows for a more detailed look at the differences between Video Search, Forensic Video Search and Cloud Analytics.

## **Can I use Forensic Video Search with previously recorded video?**

No. Forensic Search data starts being collected at the point where it's enabled for a camera channel. At this point, we don't run forensic searches on recordings that exist before the feature is enabled.

## **Does forensic video search cost extra or is it included in my cloud subscription?**

There is no additional cost for forensic video search. The option to use it on up to 20% of your cloud VMS subscribed cameras is included at no charge. If you need to enable the search capability for more than 20%, please contact us via chat or connect with your integrator/reseller or Arcules AE directly.

## **Is there a limit on the number of Forensic Video Search channels I can enable?**

Since forensic video search works 100% in the cloud, we need to control GPU load on our cloud infrastructure. As a result, initially we will limit the # of free channels to 20% of an organization's cloud VMS subscribed cameras. If you need to enable for more than cameras enabled with search capability, please contact your integrator/reseller or Arcules AE.

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# faqs

## **Why are there additional terms of service required to use Forensic Search?**

In addition to our general terms of service for the Arcules cloud platform, we ask that customers agree to an additional terms of service related specific to Forensic Video Search. These service terms will be presented when a company accesses the Devices portion of the application. It is a standard agreement that allows Arcules to collect data associated with AI learning to improve the product performance and expand its capabilities over time. It only applies to Forensic Video Search.

## **What if I decline terms of service related to Forensic Video Search?**

If you decline the Forensic Video Search terms of service, the Forensic Video Search option will not be available for your institution.

## **What type of data is being shared as part of the Forensic Video Search terms of service?**

The type of data covered by the Forensic Video Search terms of service is metadata representing specific object types and their attributes. No actual video data or user information is utilized.

## **Where can I go to get additional information about forensic video search?**

For more information you can visit one of the following reference locations:

- [Forensic Video product page](#)
- [Demonstration video](#)
- [Knowledge Base Article](#)

# forensic video search versus ...

## ...Video Search and Cloud Video Analytics

|                              |                                 |                                                                   |                                                |                                                    |                                                                                                                      |                                                                |                                                |
|------------------------------|---------------------------------|-------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------|
| <b>VIDEO SEARCH</b>          | Used for recorded video data    | Available with Cloud & Edge Gateways                              | Requires 1 video stream                        | Can be used with alarms and notifications          | Enabled by clicking on the <u>video search icon</u> in the player                                                    | Allows <u>motion search</u> in a user-defined area of interest | Color filtering option is <u>not available</u> |
| <b>FORENSIC VIDEO SEARCH</b> | Used for recorded video data    | Available with Cloud Gateways <u>ONLY</u> (Not available on Edge) | Requires 1 video stream                        | <u>NOT associated with alarms</u> or notifications | Enabled by clicking on the <u>video search icon</u> in the player                                                    | Allows <u>object search</u> by vehicle or person               | Refine search by area of interest and/or color |
| <b>CLOUD VIDEO ANALYTICS</b> | Used for <u>REAL-TIME</u> video | Available with Cloud Gateways <u>ONLY</u> (Not available on Edge) | Requires <u>2 video streams</u> (1 continuous) | Used to create alarms and notifications            | Used for Heatmaps, People Count, Parked Vehicle Count, People Detection, Vehicle Detection, Blur Detection, Rotation | People and vehicles and other objects used as <u>triggers</u>  | Color filtering option is <u>not available</u> |



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thank you

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**Canon**  
CANON GROUP

# INTELLIGENT VIDEO



|                                      |                                 |                                                                           |                                                      |                                                    |                                                                                  |                                                                                                 |                                                             |
|--------------------------------------|---------------------------------|---------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>MOTION VIDEO SEARCH</b>           | Used for recorded video data    | Available with Cloud & Edge Gateways and Camera to Cloud                  | Requires 1 video stream                              | Used to create alarms and notifications            | Enabled by clicking on the <u>video search icon</u> in the player                | Allows <u>motion search</u> in a user-defined area of interest                                  | Color and object filtering option is <u>not available</u>   |
| <b>FORENSIC VIDEO SEARCH</b>         | Used for recorded video data    | Available with Cloud Gateways and Camera to Cloud (Not available on Edge) | Requires 1 video stream                              | <u>NOT associated with alarms or notifications</u> | Enabled by clicking on the <u>video search icon</u> in the player                | Allows <u>object search</u> by vehicle or person and by region of interest                      | Refine search by area of interest and/or color <sup>1</sup> |
| <b>CLOUD VIDEO ANALYTICS</b>         | Used for <u>REAL-TIME</u> video | Available with Cloud Gateways                                             | Cloud Requires <u>2 video streams</u> (1 continuous) | Used to create alarms and notifications            | Enabled through cloud analytics set up, then placed as part of an alarm rule     | Counting, People/Vehicle Detection, Blur/Rotation Detection used as <u>triggers or heatmaps</u> | Color filtering option is <u>not available</u>              |
| <b>DEVICE / EDGE VIDEO ANALYTICS</b> | Used for <u>REAL-TIME</u> video | Available with Camera to Cloud (Not available on Edge Gateways)           | Requires 1 video stream                              | Used to create alarms and notifications            | Enabled through on-camera analytics set up, then placed as part of an alarm rule | Counting, People/Vehicle Detection, Blur/Rotation Detection used as <u>triggers or heatmaps</u> | Color filtering option is <u>not available</u>              |