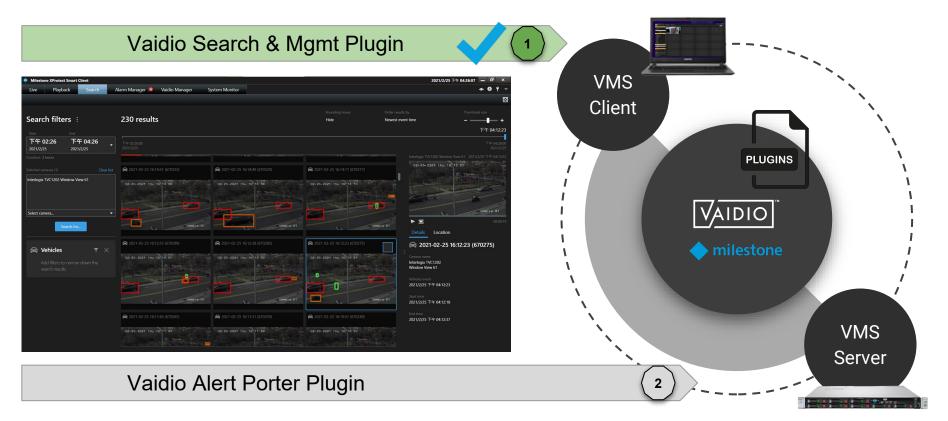
Vaidio Plugins For Milestone





Contents



Vaidio Search & Mgmt Plugin

Click on the button to jump to the section

Preparations

Vaidio Search & Mgmt Installation Guide Vaidio Search & Mgmt Manual

Technical support contactsupport@aicuda.world Business contactsales@aicuda.worl(EMEA) or sales@ironyun.cor(Americas and ASIA)



Preparations

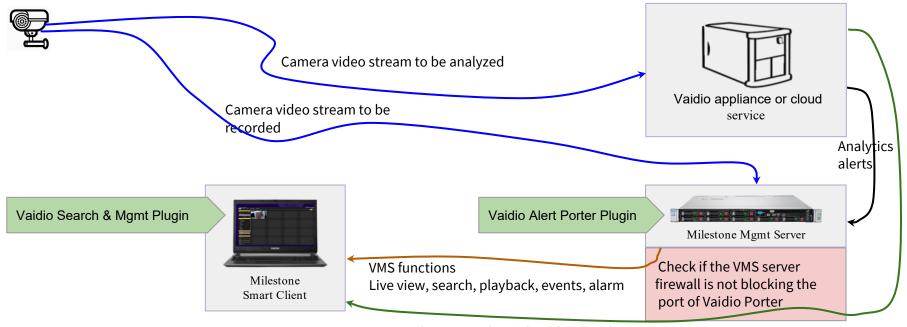
Vaidio Search & Mgmt Plugin

A video analytics plugin for Milestone VMS and Smart Client. This plugin addresses two functions:

(1) The discovery & management of video analytic services (Vaidio) embedded in smart client.(2) The video search function.



Preparation - Topology, Flow & Components



VMS analytics search result with meta-data



To synchronize the system it is required among camera, VMS and Vaidio service to share "a common" NTP time server



Preparation - Milestone VMS & Vaidio

- Install Milestone XPCO or XPE in 2020R3 on x64 Windows 10 platform.
- Standalone or distributed Smart Client 2020R3 is tested with Vaidio v4.2.1.
- Both Vaidio and VMS need to have access to the camera stream.

Milestone XProtect [®] Smart Client 2020	R3 Milestone XProtect* Management Client 2020
Computer	Computer:
192.168.0.4	192.168.0.4 💌
Authentication	Authentication:
Windows authentication 🔹	Windows authentication
Domain: VM1	Domain: VM1
User name	User name:
VM1\user 🗸	VM1\user
Password	Password:
Remember password	Remember password
🔲 Auto-login	
Connect Close	Connect Close



Installation Guide

Vaidio Search & Mgmt Plugin

A video analytics plugin for Milestone VMS and Smart Client. This plugin addresses two functions:

(1) The discovery & management of video analytic services (Vaidio) embedded in smart client.(2) The video search function.

Installation & Verification

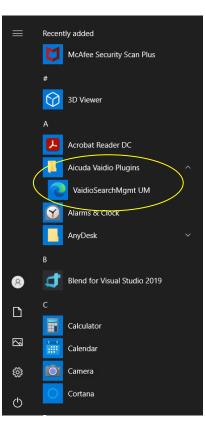


- 1. A base Milestone VMS installation on XPCO or XPE platform in Windows 10 w/ x64. Tested in version 2020R3 20.3a (64 bits)
- Download the plugin from the <u>download link</u> and copy it in the <u>smart</u> client folder on the client PC. You have the option to click "cancel" or "next" in the installation process. Installation folder and Milestone smart client folders are fixed and cannot be redirected.

📑 🖸 🛄 🖛 MIPPlugins					- 0
File Home Share View					
← → × ↑ 📙 → This PC → Local Disk (C:) → Program File	es > Milestone > MIPPlugins	ې ن	Search MIPPlugins		
Program Files	Name	Date modified	Туре	Size	
Aicuda Inc	SCVaidioManager	2/25/2021 5:49 PM	File folder		
Application Verifier	SCVaidioObjectSearch	2/25/2021 5:49 PM	File folder		
Common Files	🍫 aicuda-large	2/23/2021 6:14 PM	lcon	67 KB	
dotnet	🗊 msiexec	12/7/2019 5:10 PM	Application	59 KB	
Google	🛃 Uninstall	2/25/2021 5:49 PM	Shortcut	4 KB	
IIS	VaidioSearchMgmt	2/25/2021 5:24 PM	Adobe Acrobat D	685 KB	الكرج

1. Launch the downloaded installer

"VaidioSearchMilestonePluginInstaller-x.x.x.exe"



×

VaidioSearch

MilestonePlu

ginInstaller

0.3.93.

Plugin Verification

Hide

t your reseller or find one on https://www.milestonesys.com

** To verify if the plugin is properly loaded in the Milestone Smart Client.

Newest event time

2/27/2021 4:11:01 PM -

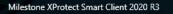
Help (F1)

About

- a. Run Smart Client and check "About" section.
- b. Check if "Vaidio Manager vx.x.x." is listed.
- c. Check if "Vaidio Search vx.x.x." is listed. vx.x.x.x is a placeholder for the version number.

Milestone XProtect[®] Smart Client 2020 R3

OK



Version 20.3a (64-bit)

Build 93

Copyright © Milestone Systems A/S www.milestonesys.com

Plug-in(s) and version information

MetadataSearchPlugin v1.0.0.0 – Milestone Systems A/S Vaidio Manager, v1.0.0.0 - Aicuda Technology Vaidio Search v1.0.0.0 - Aicuda Technology



Plugin Removal



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×

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OK

Apps & features

Choose where to get apps

Installing apps only from Microsoft Store helps protect your device.

Anywhere

Apps & features

Optional features		
App execution aliases		
Search, sort, and filter by drive. If you would like t app, select it from the list.	o uninstall or move an	
vaidio $ imes$		
Sort by: Name $ \smallsetminus $ Filter by: All drives $ \lor $		
1 app found		
VaidioSearchMgmt version 1.0.5.0	216 MB 4/21/2021	

aicuda - Programs and Features

←	\rightarrow	~	↑	ñ	>	Control Panel	>	Programs	>	Programs and Features	
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Control Panel Home

Uninstall or change a program

View installed updates

To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.

Turn Windows features on or off

Organize - Uninstall Cha	ange Repair				
Name		Publisher	Installed On	Size	Version
VaidioAlertPorterServerPlugin	n	Aicuda Inc.	4/23/2021	90.8 MB	1.0.6
VaidioSearchMgmt version 1.	.0.6.0	Aicuda, Inc.	4/22/2021	215 MB	1.0.6.0

VaidioSearchMgmt Uninstall

To uninstall the *VaidioSearchMgmt* plugin, open the "Programs and Features" tab in "Control Panel" to remove the plugin. There is only the option to remove the plugin directly.

ڻ v

aicuda

VaidioSearchMgmt was successfully removed from your computer.



Manual

Vaidio Search & Mgmt Plugin

A video analytics plugin for Milestone VMS and Smart Client. This plugin addresses the following functions:

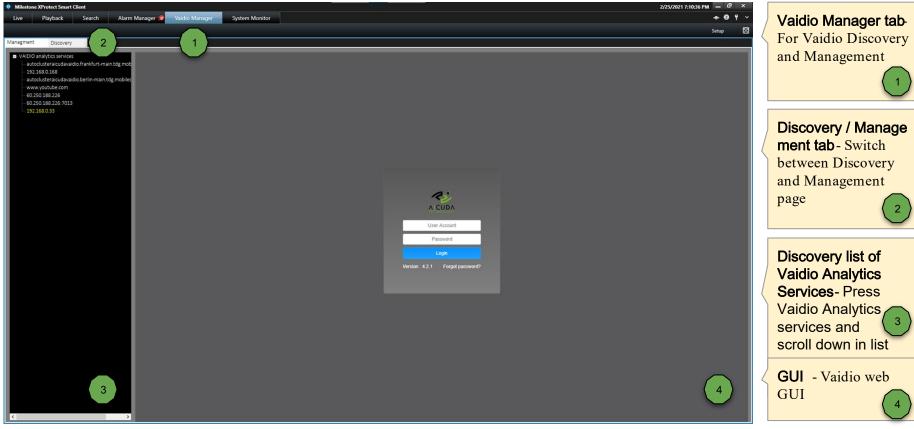
(1) The discovery & management of video analytic services (Vaidio) embedded in smart client.

(2) The video search function.

(3) The plugin license activation.

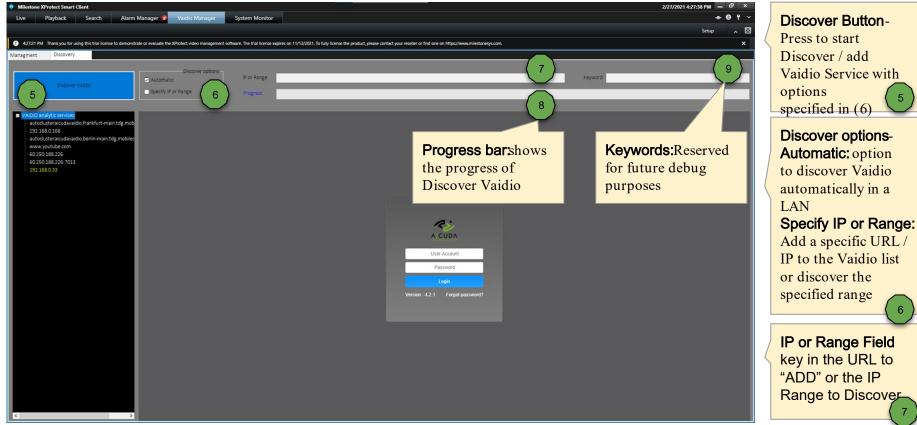


Vaidio Manager - Management Page





Vaidio Manager - Discovery Page

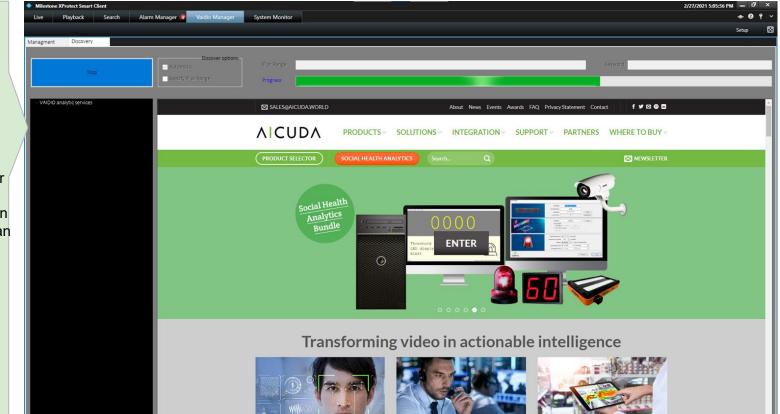




Vaidio Manager - Discover Automatically

Press the "Discover" button to scan the Vaidio services with default "Automatic" option.

The progress bar / reflects the status of the scan process. User can wait until the scan is completed or press the "Stop" button.

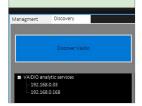




Vaidio Manager - Discover Automatically

Once the scan is completed a message box pops up indicating that the Discovery process is completed.

Once the user hits the OK button, the scan result of all Vaidio analytics services are listed in a tree view.



Milestone XProtect Smart Client		2/27/2021 839:57 PM - 🗗 🗙
Live Playback Search Alarr	m Manager 🕼 Vaidio Manager System Monitor	*01
Disease		Setup 🛛
Managment Discovery Discover Valdio	Discover options (P or Range	Keyword
Discover vario	Specify IP or Range Progress	
 VAIDIO analytic services 	SALES@AICUDA.WORLD	About News Events Awards FAQ PrivacyStatement Contact 🛛 f 🎔 🖾 🕲 🗖
	AICUDA	PRODUCTS ~ SOLUTIONS ~ INTEGRATION ~ SUPPORT ~ PARTNERS WHERE TO BUY ~
	PRODUCT SELECTOR	SOCIAL HEALTH ANALYTICS Search Q Search
		In all tics as a Service
	Tran	nsforming video in actionable intelligence



Vaidio Manager - Add URL / Host IP

Click the "Specify IP or Range" box and hit the "Discover Vaidio" button.

Add a specific URL in the "Specify IP or Range" box. The URL becomes visible in the tree view.

The URL is not able to connect if the network connection or service is not available.







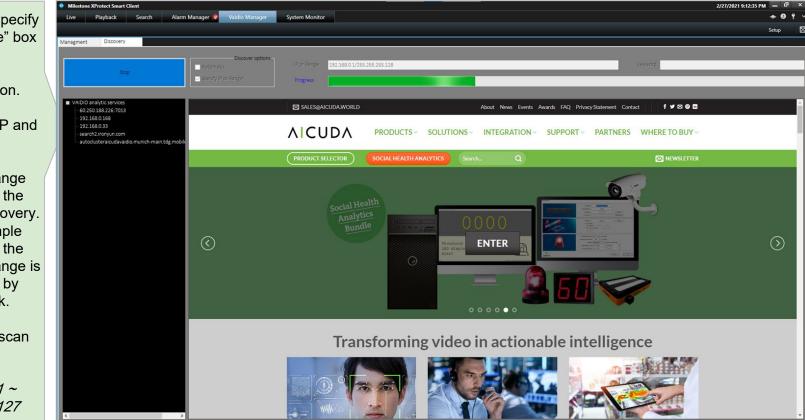
Vaidio Manager - Discover IP Range

Click the "Specify IP or Range" box and hit the "Discover Vaidio" button.

Key in the IP and netmask to specify the scanning range and reduce the time of discovery. In the example on the right the scanning range is determined by the netmask.

The actual scan range is

192.168.0.1 ~ 192.168.0.127

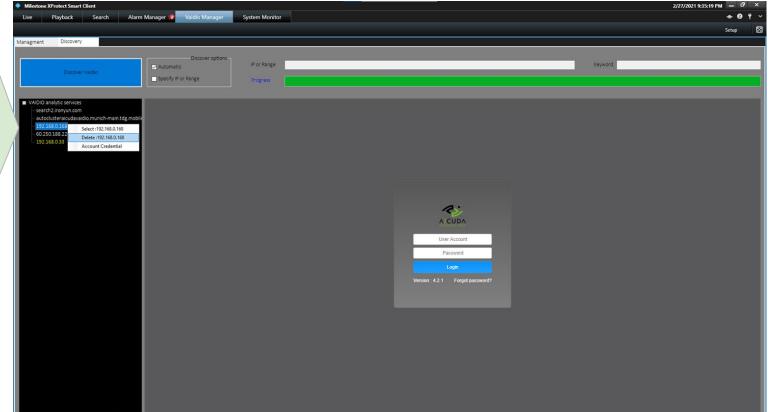




Vaidio Manager - Remove Vaidio From List

Right click on one of the scan result in the tree view. Select "Delete" to remove the Vaidio service from the analytics service list.

** IP address in the list is automatically removed if the automatic scan is not able to find it. Exception: if the IP is a selected service or the user specifically added the IP in the "Specify IP or Range" box.



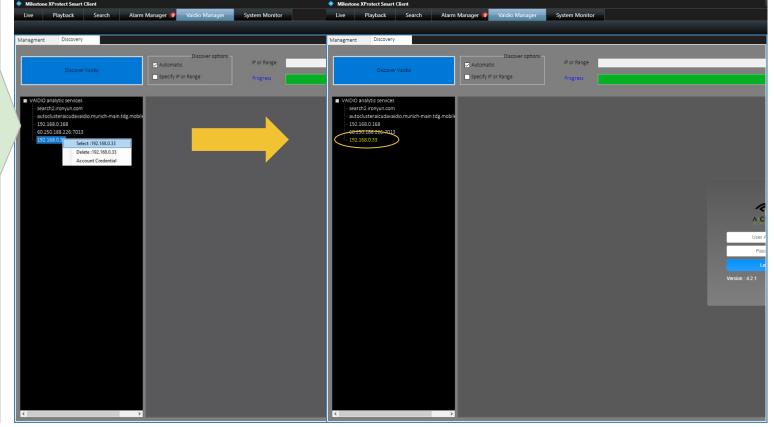


Vaidio Manager - Specify Vaidio For Search

Right click on one of the analytics services in the tree view. Choose "Select". The selected analytics service is now going to push the analytics search results to the Milestone Smart Client search function. The user can only select one analytics service at a time.

The default credentials will be loaded. User can change credentials manually.

The selected Vaidio analytics service is colored in yellow.

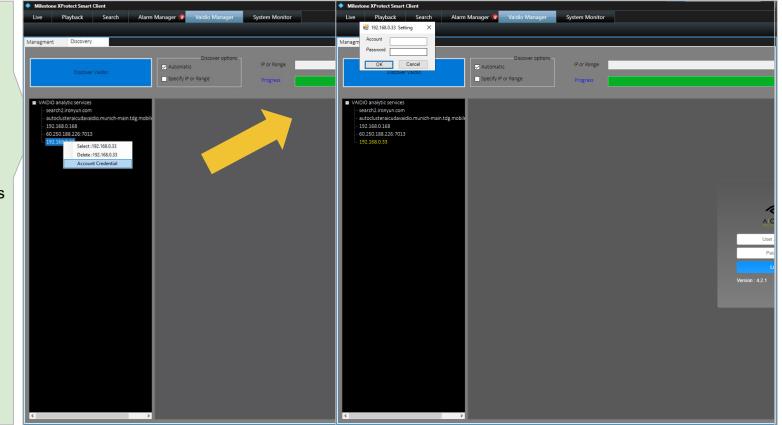




Vaidio Manager - Credentials For Vaidio

Right click on one of the analytics services in the tree view and select "Account Credentials".

A pop up window appears and the user is able to key in the access credentials for the selected Vaidio analytics service.

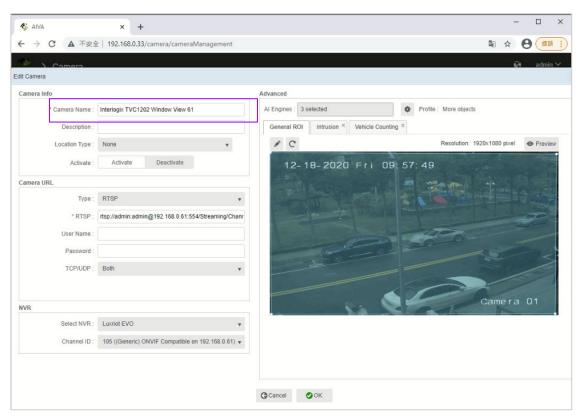




Vaidio Search - Camera Match

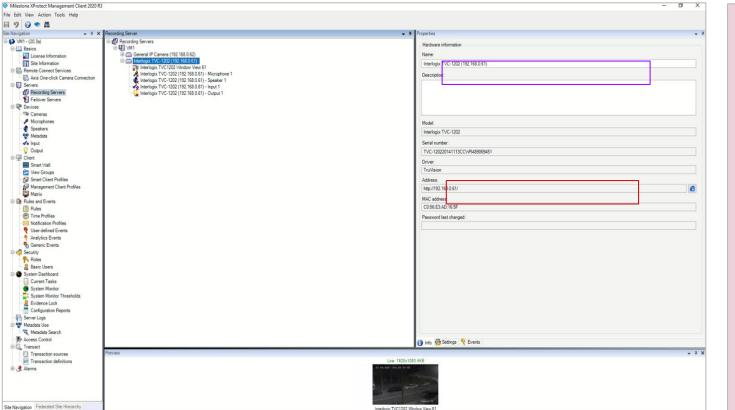
Automatic mapping of the camera for analytics and recording. Camera needs to be visible in both Milestone and Vaidio software.

- 1. Add the camera in the Milestone Management Client
- 2. Add the camera in Vaidio.
- Important that the camera name is exactly the same in Vaidio and Milestone software.



Vaidio Search - Camera Match





Mapping is based on the camera name to manage the interaction between Milestone Management Client and Vaidio.

Avoid duplication of the camera name in Vaidio and Recording Server to prevent redundant search results.

** Similar RTSP URL for a different camera name can also cause redundant search.

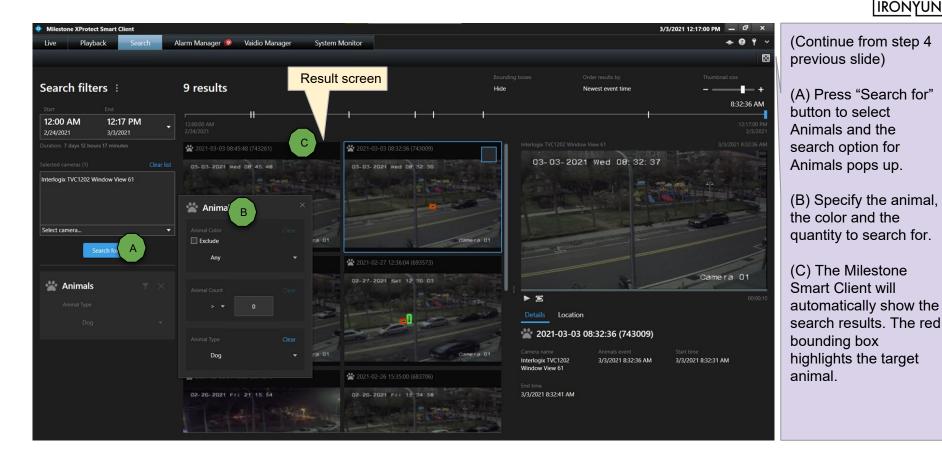


Vaidio Search - Operation Sequence

💠 Milestone XPr	otect Smart Client				4	/8/2021 5:49:01 PM 🗕 🗆 🗙	
Live P	layback Sea	Alarm Manager 🧐 🛛 Vaidio Manage	er System Monitor			◆ 9 १ ~ ∧ ⊠	(1) Press Smart Clier Search tab
5:47:32 PM T	hank you for using this trial license	to demonstrate or evaluate the XProtect video manag	gement software. The trial license expires on 11/13/2021. To fully lice	ense the product, please contact your reseller or find	i one on https://www.milestonesys.com.	× 🛛	
				Bounding boxes		Thumbnail size	(2) Specify the date
Search fi	Iters 🗄 📃	2 results		Show	Newest event time	+	and time range
Start	End						C C
3:48 PM 4/8/2021	5:48 PM 4/8/2021	- 3348:00 PM 4/8/2021				1 5:48:00 PM 4/8/2021	(3) Select the camera
Duration: 2 hours		General IP Camera (192.168.0.62) - 0					for the search
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General IP Camer	ra (192.168.0.62) - Cam 3						the selected camera
Interlogix TVC120	02 Window View 61					arch result to preview it.	must be added to
							Vaidio via Vaidio GUI
Select camera		(38:55:33) 4/7/2021 4	101:04 AM (168:07:01) 4/1/2021 5:40:52 F	2M			Camera mapping is
	Search for				► Ξ		based on IP or RTSP
	4						
	Alarms	Analytics Tags	🛣 Animals				(4) Via the Vaidio
Showir							plugin it is possible to
th	Bookmarks	4 Events	Le Humans				select Humans,
	Motion	Objects	🛱 Vehicles				Vehicles, Animals,
							Objects and Analytics
							Tags

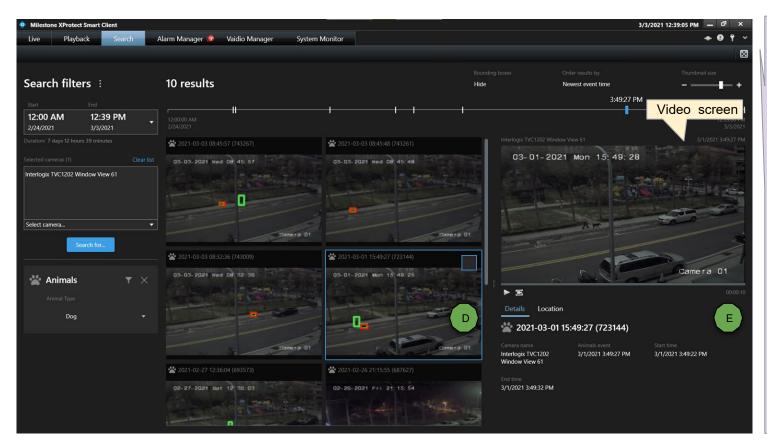
Vaidio Search - Search Types & Options







Vaidio Search - Video Details Search Results



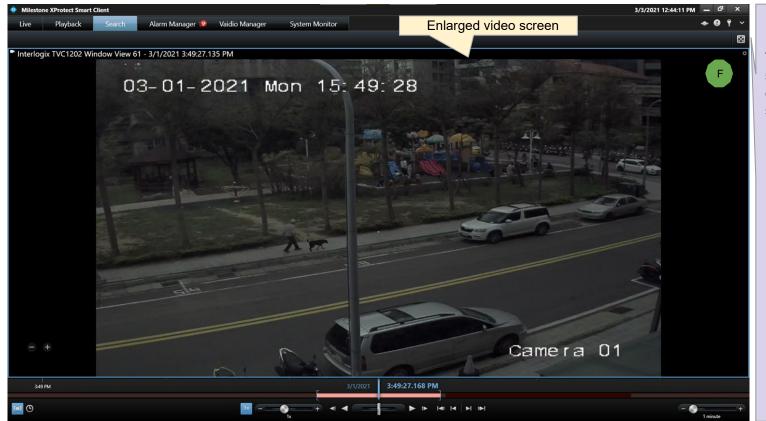
(D) Click on one of the search results windows to enlarge the video.

(E) The corresponding video footage is now visible in the video screen.

(F) Click on the video screen to enlarge the video at the detected time event.



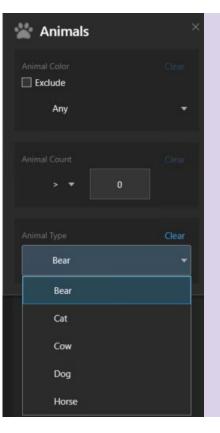
Vaidio Search – Video Search Enlarged Screen



To turn back to the standard view, double click the enlarged screen.



Video Search - Animals & Objects



- 1. Color: select the color of the animal or useExclude option in the checkbox.
- 2. Count: select the number of animals to search for in one video frame.
- **3. Type**: select the animal type to search for.
 - ** Bear, Cat, Cow, Dog and Horse are default options. For more options please contact Aicuda / IronYun sales team.

Objects	×
Object Color	Clear
Any	*
Object Count	Clear
> - 0	
Object Type	Clear
Airplane	Ť

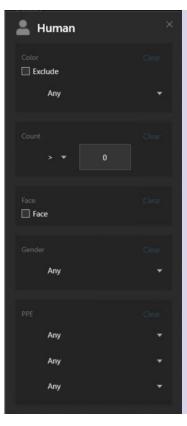
- 1. Color: select the color of an object or useExclude option in the checkbox.
- 2. Count: select the number of similar objects to search for in one video frame.
- 3. Type: select the object type to search for.

** 22 listed objects are default options.

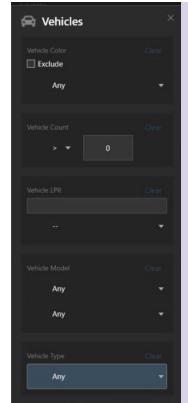
For more options please contact Aicuda / IronYun sales team.



Video Search - Humans & Vehicles



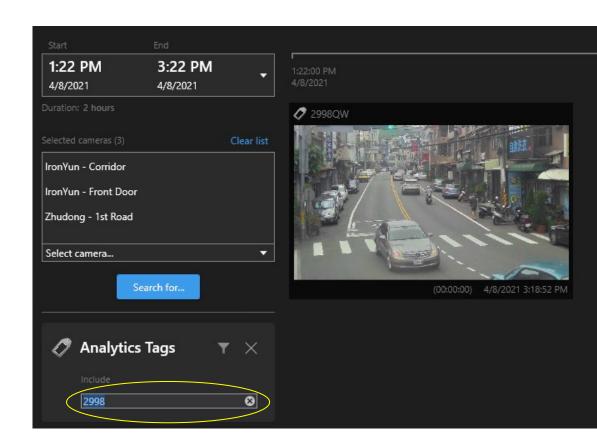
- 1. Color: select the color of the clothes to search for a specific human
- 2. Count : select the number of humans to search for in one video frame.
- Face Search for human faces. Face picture: 40px * 40px.
- 4. Gender: search for male or female.
- 5. PPE search for humans that wear and not wear Personal Protection Equipment.
 - ** Face recognition is not supported in the Milestone plugin so far. Please contact Aicuda / IronYun sales for support.



- 1. Color: select the color of a vehicle to search for a specific vehicle.
- 2. Count : select the number of vehicles to search for in one video frame.
- 3. Vehicle LPR search for a specific license plate number or search from a pre-defined list.
 - (**created via Vaidio GUI)
- 1. Vehicle Model select the make and model of a car to search for.
- 2. Vehicle type select the specific vehicle type to search for

Video Search - Analytics Tag





Click on "Search for" in the Milestone Smart Client and select "Analytics Tags". Type in the text to search for. In this example the keyed in text "2998" refers to a part of a license plate number. As a result all cars with license plate number "2998" pop-up.

The keyed in number appears in the placeholder of {LicensePlate} similar to the example below.

Example of Alert delivered to Milestone Alarm: http://192.168.0.47:2234/v1/alerts/Aic udaDetectionToyota?cn={cameraNa me}&t={eventTimeStamp}&tag={Li censePlate}

License – Search & Mgmt



3 levels of licenses

- **Free / Limited:** limited functions after installation, no expiration date. Only 5 alerts for one hour a day.
- **Trial:** 30 days full trial license after installation, available via <u>sales@aicuda.world</u> or <u>sales@ironyun.com</u>. The trial license gives the customer the possibility to evaluate the Milestone plugin for a limited period of time.
- **Paid:** full functions for an unlimited period of time.

License Status OK / Expired / Not Match / InValid / Not Match Product (Plugin product mismatch)

** Select "Activation" to open the license dialog from the "Import License" tab. Copy the serial number information and sether <u>sales@aicuda.world</u> or <u>sales@ironyun.com</u> to apply for the license. After receiving the license file the user can open the same dialog window to activate the license.

Live Playback Search Alarm Manager 🕼 Vaidio Manager System Monitor		◆ 0 ° ×
		Setup 🖍 🔀
4:32:16 PM Thank you for using this trial license to demonstrate or evaluate the XProtect video management software. The trial license expires on 11/13/2021. To fully license	he product, please contact your reseller or find one on https://www.milestonesys.com.	×
Managment Discovery License		
Serial Number: B76C-306A-C585-5F45-7252-6AA1-E9F4-ACB2	\$7 Open X (· →) ← ↑ ■ > This PC > Desitop > · · · V Search Desitop	
	Organize + New folder III + III •	
	Downloads # Iddip_scan Z0272021527 PM File did_p_scan. Z0272021527 PM File The N did_p_scan.of Z014/2021935 PM File	
Type: Authorized	Image: Second	
Authorized to: B76C-306A-C585-5F45-7252-6AA1-E9F4-ACB2	WadioAverBore B 876C-306A-C585-5745-7252-64A1-6964-AC823/c 4/22/2021 1132 AM Licen WadioAverBore B 876C-306A-C585-5745-7252-64A1-6964-AC823/c 4/22/2021 1132 AM Licen	
Expiration Date: Unlimited	 This PC 3 30 Objects 	
	Decidop Cocuments V <	
License Status: OK	File name: V Scene Ble (Sc) V	mport License

Note:



- 1. Please close the Milestone Smart Client before removing or upgrading a license.
- 2. The Search plugin is installed in the Client and works with Milestone XPCO and XPE.
- 3. The system time among entities (VMS Server, VMS client, Vaidio and Cameras) needs to be consistent with the same NTP source.
- 4. If a search takes much longer as normal, please reduce the time period or reduce the number of cameras.