

Release Note of huperAnalyzer v2023.0322

by June 21, 2023

Installer File of huperAnalyzer v2023.0322

HV171bB230322-huperAnalyzer.exe

Compatible MS Windows Versions

MS Windows 10 or later versions

Installation Steps

Step 1: Close Site Server.

Step 2: Uninstall the current installed version of huperAnalyzer.

Note: by clicking Start - Settings - Apps - huperAnalyzer v1.71b - Uninstall.

Step 3: Open the installer of huperAnalyzer v2023.0322 by executing the file "HV171bB230322-huperAnalyzer.exe". Follow the guided steps of the installation wizard to complete the installation.

Step 4: Restart machine.

New Functions, Fixes, and Improvements

Site Server - New Functions

No	Description
1	Auto-reset video capture chips when they are unresponsive.
2	Log the video capture driver's version information to the file "bin\live-log.txt*2".
3	Add a new video analytics, 3D Loitering Detection, to detect loiterers.
4	Support the function of sharing common depth-maps to save CPU consumption when applying multiple 3D video analytics to the same 3D camera. To enable the function for a 3D camera, set the statement below in the file "Plugins\H3DDepthMapCreator\Setting##*1&2.ini". [Plugin] m_bEnableCommonDM=1 where the value is 1 to enable the function, and 0 to disable it.

No	Description
5	<p>Support HTTP/2 over HTTPS/HTTP via the nginx reverse proxy. To support HTTP/2 over HTTPS, set the statement below in the file "bin\Server.ini"¹. [WEBSERVER] NginxReverseProxy_HttpsUseHttp2=1</p> <p>To support HTTP/2 over HTTP, set the statement below. [WEBSERVER] NginxReverseProxy_InsecureHttpUseHttp2=1 NginxReverseProxy_InsecureHttpPort=# where the "#" is the port number of the HTTP service.</p>
6	<p>Add a new CGI command "GenerateVirtualEvent" to generate virtual events.</p>
7	<p>Add a new authority "Pause detection" to the Account Manager. Users with this authority can operate the button "Pause Detection".</p>
8	<p>In the Event List, users can select multiple events and export their video records to mp4 files.</p>
9	<p>In the "General Setup" setting of video analytics, add a new option "Mark ground areas" to show red marks in the video previews of the 3D video analytics settings to indicate the ground areas.</p>
10	<p>Optionally show the Preference - Schedule tab for defining video recording schedule. To show the tab, set the following statement in the file "\bin\SSDimensionAnalyzerSetup.ini"². [Functionality] RecordingScheduleSettings=1 where the value is 1 to show the "Schedule" tab, and 0 to hide it.</p>
11	<p>Show/hide menu items "IP Camera data rate info", "Matrix View" and/or "Multiple View". Follow the steps below to show/hide the menu items. Step 1: Close Site Server. Step 2: Open the file "bin\SSDimensionAnalyzerSetup.ini"². Step 3: Modify the statement "HideMenuIPCameraDaraRateInfo=#", where the "#" is "1" to hide the menu item "IP Camera data rate info", and "0" to show it. Step 4: Modify the statement "HideMenuMatrixView=#", where the "#" is "1" to hide the menu item "Matrix View", and "0" to show it. Step 5: Modify the statement "HideMenuMultipleView=#", where the "#" is "1" to hide the menu item "Multiple View," and "0" to show it. Step 6: Save the file to confirm the changes. Step 7: Run Site Server.</p>
12	<p>When the access control is enabled, a user with "Administrator" privilege level without "Shutdown" authority can minimize Site Server but cannot close it. After the user has logged in, right-clicking the Power button shows a popup menu containing an enabled menu command "Minimize Site Server" and a disabled one "Close Site Server".</p>

Site Server - Fixes

No	Description
1	In the Event List, the camera filter function may not work.
2	When an IP camera is disconnected and users switch to a different split-screen layout, channels other than the channel of the disconnected IP camera may display the message "IPCAM VIDEO LOSS".
3	A channel may display in green if it has lost its video input signal.
4	When replacing an IP camera device, the event "Camera Error" is generated when the original IP camera is unplugged. The event "Camera Recovered" is not generated after plugging a new IP camera back.
5	Not all split-screen modes support the function of Loop Display.
6	When the NTP time synchronization is failed, restarting Site Server doesn't enable the function automatically.
7	In the Event List, an event's entire video record cannot be exported if its beginning lacks video recording data.
8	Unable to get a network storage's free space information when folders of the network storage specified as the record storages are missing.
9	When two events have the same event time, only one of them can be exported to an mp4 file.
10	In the Event List, after selecting an event without video-recoding data, all control buttons on the Event Player aren't grayed out.
11	The triggering of designated digital output may not stop if the event times of the camera video loss and recovery are too close.
12	Deleting folders of 2nd storages may crash the system.
13	Recycling a video record which is in playback may crash the system.
15	Cannot restart Site Server while it is malfunctioning.
16	The time calculation, based on the setting "MinimumErrorLengthSeconds" or "MinimumErrorLengthSecondsForIPCamera", is not correct.
17	Site Server may get stuck into a deadlock situation.
18	Opening Record Player and replaying event records may crash Site Server.
19	During the initialization of the time server service, a CMD window showed. If users have closed the CMD window manually, the time service server cannot start.
20	On Vento 3 machines (M/N: HV-3-708C-9300), after launching Windows, the camera video signals may lose within 5 times of Site Server restarts.
21	Site Server may get stuck in a deadlock situation when backing up video records to 2nd storage.
22	In the Event List, events may display with wrong time codes.
23	Site Server may get stuck in a pause situation during its launch; LiveMon (Site Server Monitoring Tool) cannot detect this situation to restart Site Server.

No	Description
24	The manager of video recordings may get stuck in a deadlock and crash the system.
25	In the Event List, the sensor or video-signal-lost events may not be displayed promptly.
26	The Site Server may crash when start/stop the 3D Virtual Fence function.
27	The Site Server may crash while it is recovering its video recordings' database files in its launch process.

Site Server - Improvements

No	Description
1	When a channel connects to a 3D camera, its next channel on PTZ Control Panel is grayed out.
2	In the "General Setup" dialog box for video analytics, the option text "Pause detection time:" is changed to "Pause detection time (hour)".
3	Disable the button "Setup" for all video analytics when the active channel doesn't connect to a camera.
4	HShutDown.exe must be executed with Administrator privilege to close Site Server.
5	Automatically filter out events that don't have an end time.
6	Remove the left and right black edges on the video of the 49-series capture cards.
7	Show a warning message when the space of the destination storage is insufficient to store the converted mp4 files.
8	The Site Server is launched with Administrator privilege by default.
9	Improve the system time synchronization with the NTP time.
10	The controls of the Event Player are changed to a play/pause button, a seek bar, a snapshot button, and a zoom button.
12	The default video compression is changed to the "Good" quality of H.264 compression.
13	An event email's video analytic type can be specified in the section "[IVS Type]" in the file "bin\SSDimensionAnalyzerSetup.ini"2".

HostMon (Host Monitor)

No	Description
1	<p>[New] To modify the time interval of logging the CPU usage, set the following statement in the file "\bin\HostMon.ini"2".</p> <pre>[Functionality] CpuUsageInterval=# where # is a number in seconds.</pre>
2	[Fix] MS Windows 10 system blocks the HostMon from accessing the NTP time server service.

LiveMon (Live Monitor)

No	Description
1	[New] LiveMon logs the system memory usage info when Site Server crashes.
2	<p>[New] LiveMon reboots the computer when Site Server has not responded for a period of time during its launch process. The following are statements for this function in the file “bin\LiveMon.ini”.</p> <pre>[LiveStartNoResponse] Reboot=1 RestartLive=0 MaxActionPerDay=7 NoResponseThresholdMinute=5 DayActionCountVar=0</pre> <p>please refer to Table-1 below for the details of these statements.</p>

Table-1: Statements in LiveMon.Ini

Key	Value
Reboot	1: reboot the computer, 0: no action.
RestartLive	1: restart Site Server, 0: no action. The priority of rebooting the computer is higher than restarting the Site Server.
MaxActionPerDay	The maximum number of actions, rebooting the computer or restarting Site Server, is performed in a day.
NoResponseThresholdMinute	The maximum waiting time for a Site Server’s response in its launch. If Site Server cannot respond in time, takes a specified action.
DayActionCountVar	Log the number of actions taken.

HDDMon (HDD Monitor)

No	Description
1	[Fix] Crashes after pressing the button “Stop Alarm” when no disk has been selected yet.
2	[Fix] The allocated memories are not released when the program exits.
3	[Fix] Report alarms at wrong times.
4	[Fix] Unable to monitor USB HDDs.
5	[Fix] HDD Monitor cannot get the information on HDDs in the MS Windows 11 environment.

Capacity Manager

No	Description
1	[New] Able to set a delay time for triggering an alarm when the capacity has met the maximum.

3D Tailgating Detection

No	Description
1	[Improvement] Improve the drawing of detection lines on relatively featureless grounds.
2	[Improvement] In the Disinfection mode, people who leave don't need to do the disinfection action.
3	<p>[New] Draw a detection line composed of polygonal lines.</p> <p>Clicks a position on the video preview to define the start point, keep clicking at different positions to draw consecutive line segments. Right-click the end position to exit the line drawing. Click and drag a line vertex to adjust its position.</p>
4	<p>[New] Set the thickness of the detection lines.</p> <p>Step 1: Close Site Server. Step 2: Open the file "Plugins\H3DTailgating\Setting##*1&2.ini". Step 3: Modify the statement "DetectingLineSize=#," where # is a number from 0 to 15, and is 3 by default. A larger value represents a thicker line. Step 4: Save the file to confirm the change. Step 5: Run Site Server.</p>
5	<p>[New] Adjust the font size of the detection line numbers.</p> <p>Step 1: Close Site Server. Step 2: Open the file "Plugins\H3DTailgating\Setting##*1&2.ini". Step 3: Modify the statement "DetectingLineTextSize=#," where # is a number from 100 to 300, and is 100 by default. A larger value represents a larger font size. Step 4: Save the file to confirm the changes. Step 5: Run Site Server.</p>
6	<p>[New] Specify the minimum passed distance between the intruder and the detection line to trigger an alarm.</p> <p>Step 1: Close Site Server. Step 2: Open the file "Plugins\H3DTailgating\Setting##*1.ini". Step 3: Modify the statement "AlarmPixelThr=#", where # is a number from 1 to 20, and is 5 by default. A larger value represents a longer distance. Step 4: Run Site Server.</p>

No	Description
7	<p>[New] Add a height filter for moving objects.</p> <p>Follow the steps below to set the height filter.</p> <p>Step 1: Close Site Server.</p> <p>Step 2: Open the file "Plugins\H3DAreaCounter\Setting##*1&2.ini".</p> <p>Step 3: Modify the statement "HeightMaximumLimit=#," where # is the maximum height in centimeter.</p> <p>Step 4: Modify the statement "HeightMinimumLimit=#," where # is the minimum height in centimeter.</p> <p>Step 5: Save the file to confirm the changes.</p> <p>Step 6: Run Site Server.</p>

3D People Counter

No	Description
1	[Fix] The counts may be increased or decreased in the wrong flow directions when moving objects have been merged or separated.
2	[Fix] When a person has been detected as several separated moving objects and then merged back, the count may be decreased due to a U-turn behavior being judged.
3	[Fix] The current flow counts on display may not match the count database.

3D Virtual Fence

No	Description
1	<p>[Improvement] Set the minimum crossed distance to reduce false alarm.</p> <p>Able to specify the minimum crossed distance from a detection line to reduce false alarms. To enable the function, set the statement below in the file "Plugins\H3DVirtualFence\Setting##*1&2.ini".</p> <p>[Common] ObjMotionThr=# where # is 5 or a larger number, and is 0 to disable the function.</p>

3D Fall Detection

No	Description
1	[Improvement] Improve the drawing of detection lines on relatively featureless grounds.
2	[Fix] Crashes when apply to grayscale video.
3	[Fix] The moving objects becoming still on the scene might generate false alarms.

3D Stop Detection

No	Description
1	[Improvement] Improve the drawing of detection lines on relatively featureless grounds.

3D Area Counter

No	Description
1	[Improvement] Improve the drawing of detection lines on relatively featureless grounds.
2	<p>[New] Add a height filter for moving objects.</p> <p>Follow the steps below to set the height filter.</p> <p>Step 1: Close Site Server.</p> <p>Step 2: Open the file "Plugins\H3DAreaCounter\Setting##*1&2.ini".</p> <p>Step 3: Modify the statement "HeightMaximumLimit=#," where # is the maximum height in centimeter.</p> <p>Step 4: Modify the statement "HeightMinimumLimit=#," where # is the minimum height in centimeter.</p> <p>Step 5: Save the file to confirm the changes.</p> <p>Step 6: Run Site Server.</p>

Note:

1. The "##" is "00" for the 1st 3D camera, "02" for the 2nd one, "04" for the 3rd one, etc.
2. The default program folder is "C:\huperlab\huperVision".