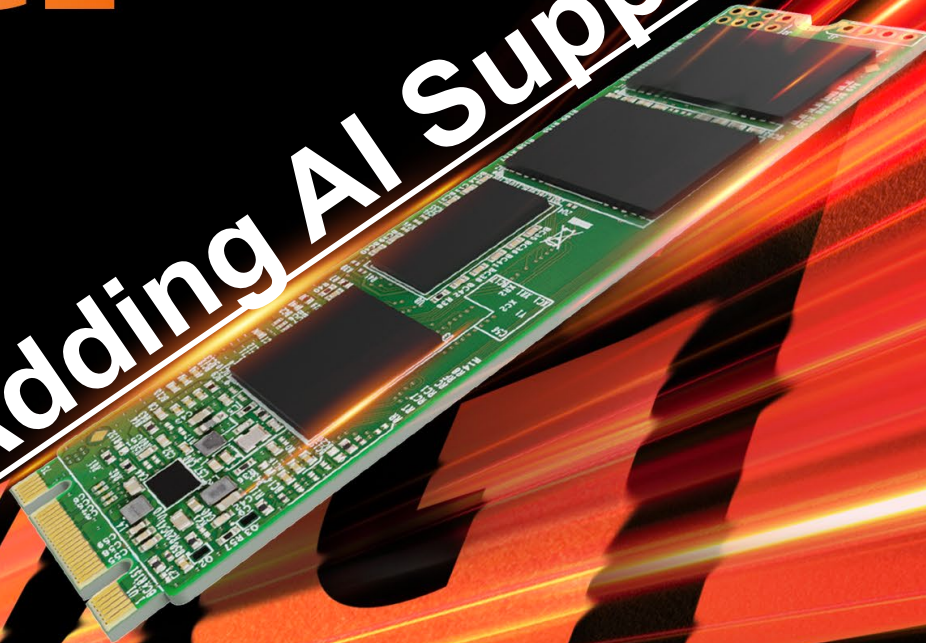
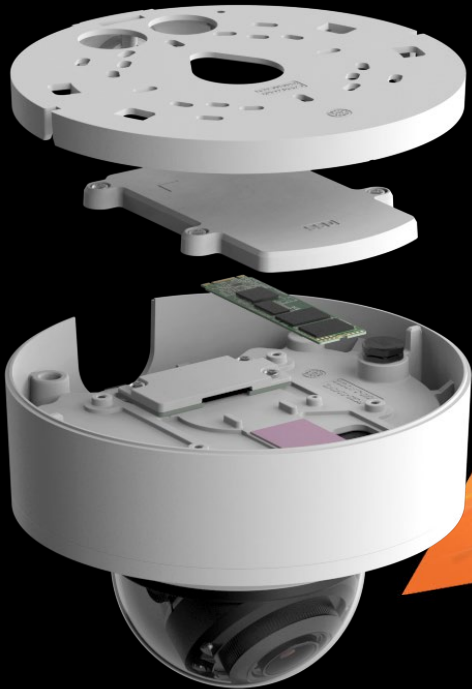


Release Notes 03/01/2024

SolidEDGE

PNV-A6081R-E1T
PNV-A6081R-E2T

Adding AI Support



SolidEDGE Supports AI

The SolidEDGE Camera VMS now supports AI detections and analytics events from the SolidEDGE camera as well as from guest cameras.

You can now use AI detection* for forensic search or to trigger video analytics events such as: Line crossing, area analytics, etc.



WAVE server version	V5.1.2.37996 or higher
In-Client Update	
Build Number for the V5.1.2	37996
Password for the V5.1.2	xiq53b



Firmware Version	V2.21.03 or higher
WiseAI version	V1.01.02 or higher

*when you using AI function on the SolidEDGE / WAVE it is not recommended to use the Audio input of the SolidEDGE camera

Initial SolidEDGE configuration

- Access the camera's webpage by double-clicking the entry in Wisenet Device Manager or by entering its' IP address into your web browser. In the setup menu > Event > Storage, click the App Installation > Start button to start the WAVE Media Service.
- Make sure the date, time, time zone, & Daylight Savings Time settings in the camera are set correctly before recording is started. It is recommended to use NTP to sync the clock to an external time server. This is configured in the Basic > Time & Date menu.
- Make sure the camera firmware is version 2.21.03 or later.
 - Firmware version 2.21.03 is posted on the website under the download section.
 - Then update the WiseAI app from the "Open Platform" section
 - After the firmware update, please make sure that the WAVE server is started as mentioned above.
 - <https://hanwhavisionamerica.com/product/pnv-a6081r-e-solidedge/>

Make sure to install the official latest release version of WAVE

Please ensure you have the latest version of WAVE, which supports the SolidEDGE platform. You can use the WAVE client to check the current version and update the WAVE server on the SolidEDGE with the newest version. Please check the SolidEDGE camera as well as any other servers that are to be merged.

You can update the WAVE version using:

(1) The WAVE Client in-client update

✂ System Administration > Updates > Update to Specific Build

For WAVE V5.1.2.37996, use the build number below.

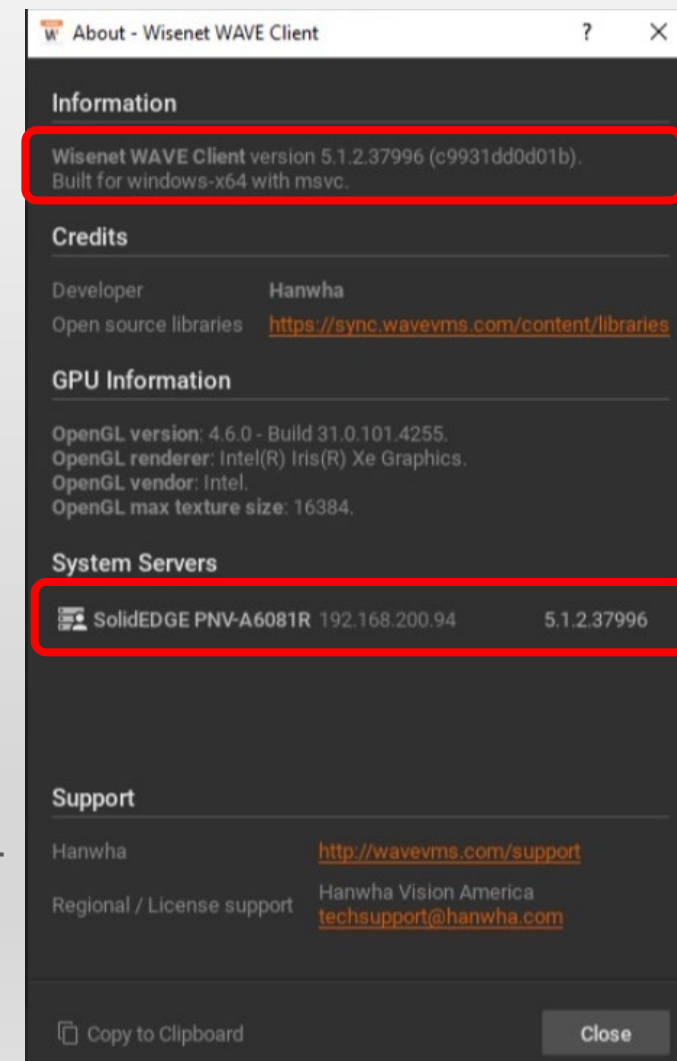
Build Number: 37996

Password: xiq53b

(2) Directly through the SolidEDGE camera Web Page under Storage

✂ Setup - Event > Storage > (install or update)*

Note: WAVE update might fail if the camera is connected to **PoE power only**, The SolidEDGE must be connected to **PoE+ Power at all-time**.



Powering up the camera

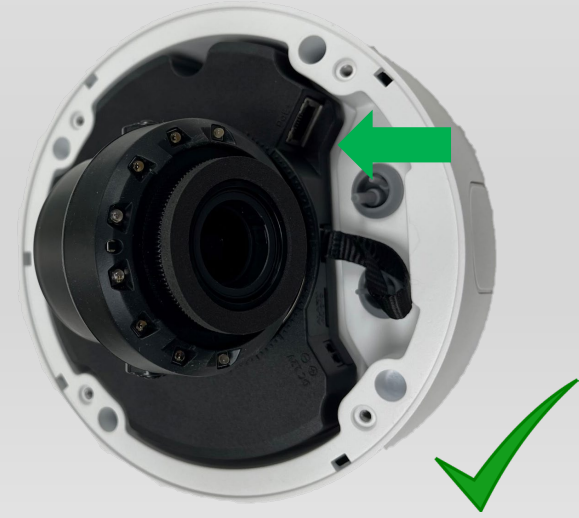
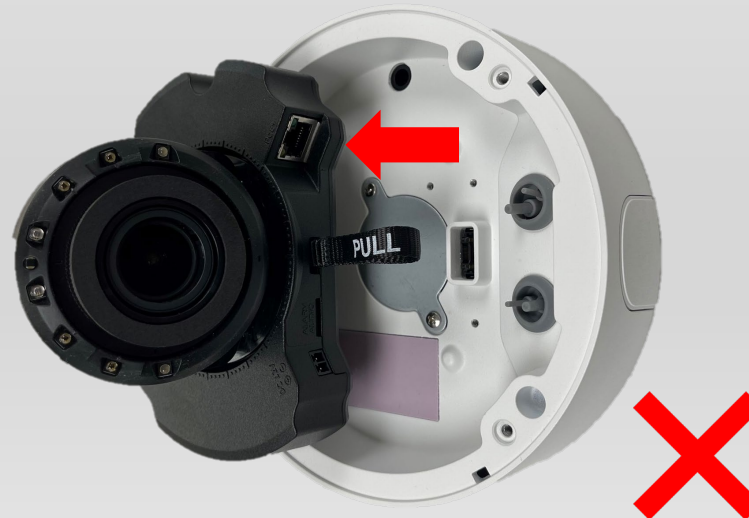
When powering on the SolidEDGE camera, make sure to connect the camera module to the camera's bottom housing which contains the SSD before applying power.

If you connect the Ethernet cable to the camera module before connecting the camera module to the housing, the camera will start the initial boot up without connecting the SSD to the system, which will result in the WAVE VMS not being able to run.

To correct this issue:

- Make sure to connect power to the camera after it is connected to the housing during installation
- OR re-cycle power to the camera (from the webpage, network switch, or by disconnecting the network cable) after camera installation

❌ Setup > System > Upgrade / Reset > Restart



Don't lose your license:

The SolidEDGE camera includes 1 WAVE Professional license installed & activated. You can add additional licenses as needed (up to 5 more). There are a few actions that can delete the WAVE license, so you **MUST** back up the WAVE license before executing these actions on the camera webpage:

Condition	WAVE License
Initialize SSD Drive	License deleted
Format WAVE Install Partition (#1)	License deleted
Format WAVE Media Partition (#2)	License preserved
Delete WAVE install via Camera webpage	License deleted
Updating WAVE via Camera webpage	License preserved
Updating WAVE Via WAVE In-Client upgrade	License preserved
Camera Factory Default	License preserved
Camera Firmware Update	License preserved

It is always recommended that the user backup the license at the time of installation. The WAVE license can be found in the WAVE Client under System Administration > Licenses.

Note: If the license is lost, please contact customer service with the serial number and MAC address of the cameras to recover the license.

Don't lose your license:

The camera comes with WAVE pre-installed, and one WAVE-pro license is activated:

Under normal circumstances, please do not:

- **Initialize the drive**
- **Format the SSD partitions**
- **Delete the WAVE server**

Executing any of the above actions can result in losing the license and/or deleting the recorded video data.

The Above actions are reserved only in the case of an issue or to recover the system to its original state.

- **If the SolidEDGE camera is factory defaulted, you do not need to initialize the drive. The recorded video will be retained.**
- **If the SolidEDGE camera is factory defaulted, the WAVE server will be stopped. You will need to start the service in the camera's setup menu via the web interface by navigating to the Event > Storage menu and clicking the start button.**
- **When installing a SolidEDGE camera, it is recommended to check its firmware version. You can easily check the version and download the latest firmware using the Wisenet Device Manager. An early firmware version causes a time sync issue where WAVE would show a time that is off by a few hours compared to the camera's clock. After updating the camera firmware, this issue will be resolved.**

For further support, please refer to the Hanwha Vision Knowledgebase and Hanwha Engineering group.

SolidEDGE Capabilities

Each SolidEDGE camera can record up to 5 additional cameras to the system*, which brings the total number of camera per SolidEDGE system to 6 cameras total, including the SolidEDGE camera.

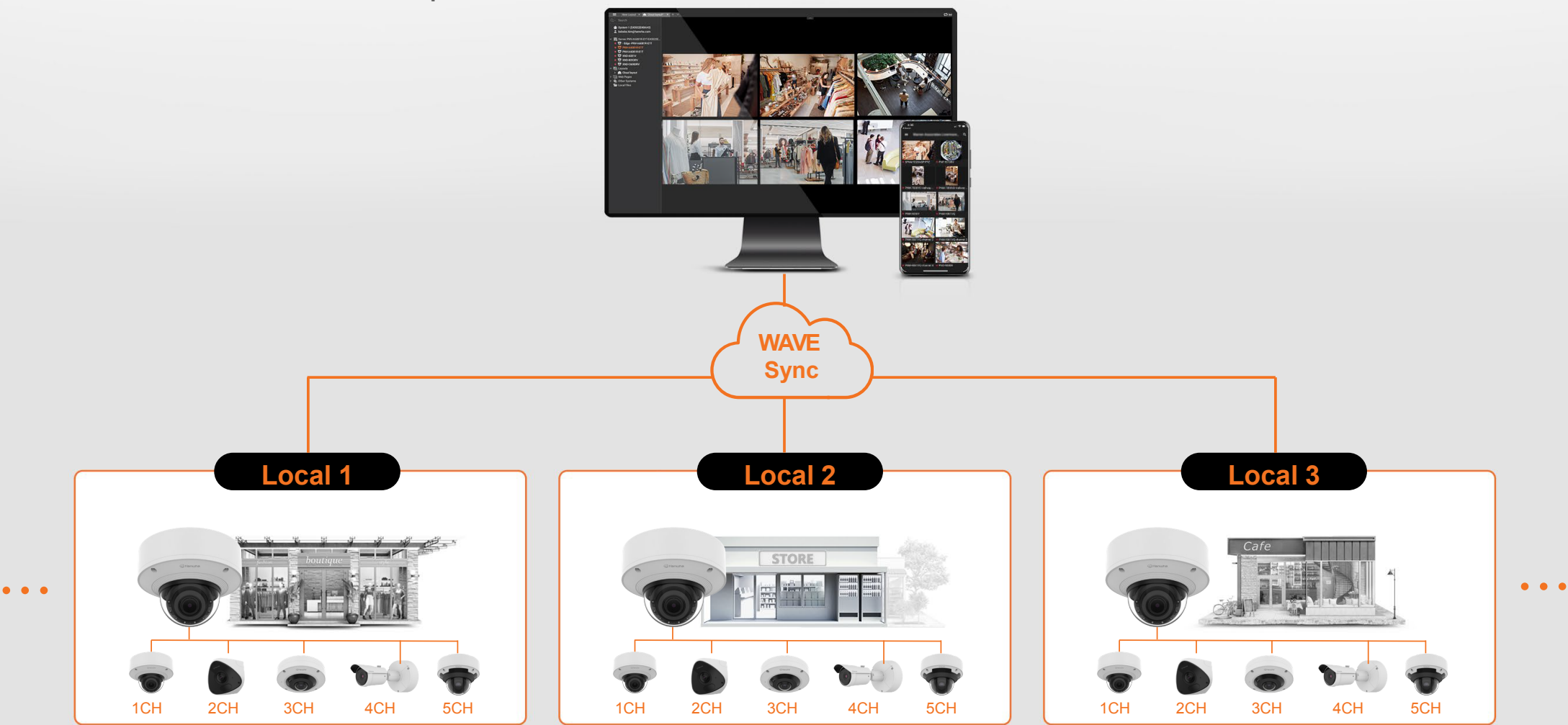
*The SolidEDGE can handle a MAXIMUM recording bandwidth of up to 33mbps and up to six total video streams (Multi-sensor cameras use **multiple streams** even though it only needs one WAVE Professional license).



Cloud Video Management with WAVE Sync



Each SolidEDGE camera can be accessed using WAVE Sync for easy cloud management. Up to 10* SolidEDGE cameras can be merged (each with a maximum of six camera channels per system), which brings the total number of camera channels per hive to **60 cameras**.



SSD Health Status

✂ Setup > Event > Storage > Info

You can monitor the Health Status of the SSD drive from the camera web page just in case if there is an issue (for troubleshooting purpose only)

Storage

Storage action setup

Device	Enable	Free size	Total size	Status	
SSD	On	1698.5GB	1907.7GB	Ready to use	Initialize

ⓘ Initialization will delete the app, saved data, and partition settings.

SSD partitions

Partition	File system	Mount point	Free size	Total size	Status	
01	ext4	/mnt/sda1	8.7GB	9.3GB	Ready to use	Format
02	ext4	/mnt/sda2	1689.8GB	1780.3GB	Ready to use	Format

App installation

Software	Not installed
Install	wave-server-5.1.0.36580-linux_arm64.hanwha_edge1-private-pr... Install

SSD Info

SSD info

Write speed

4.016 Mbps

Read speed

0 Mbps

Power-on hours

0days 1hours

Valid spare blocks

Remaining lifetime

Temperature

100% Good

100% Good

38°C

More info ▲

Model : TS2TMTS952T2-HWT
FW Version : 02J0T8OC
Serial No : H625000086

ID	Attribute name	Value
01	Read Error Rate	0
05	Reallocated Sectors Count	0
09	Power-On Hours	1
0C	Power Cycle Count	20
94	SLC Total Erase Count	173

OK

SolidEDGE Limitations (as of 1/2024)

The performance of the SolidEDGE platform allows:

- **IVA Is Enabled:**
 - The WAVE server installed on the SolidEDGE camera can use Intelligent Video Analytics from any camera.
- **AI is Enabled:**
 - The WAVE server installed on the SolidEDGE camera can use AI Metadata from Hanwha cameras.
- **The WAVE server on the SolidEDGE camera can use motion detection, event recording, and continuous recording**

Note: We are constantly improving the SolidEDGE camera and will continue to provide enhancements and improvements.

For further support, please refer to the Hanwha Vision Knowledgebase and Hanwha Engineering group.

Thank you