MAKE THE WORLD SEE

Milestone Systems

Milestone Husky IVO™ 350R

Getting started and maintenance guide

June 2021



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All names of people and organizations used in the examples in this text are fictitious. Any resemblance to any actual organization or person, living or dead, is purely coincidental and unintended.

This product may make use of third-party software for which specific terms and conditions may apply. When that is the case, you can find more information in the file 3rd_party_software_terms_and_conditions.txt located in your Milestone system installation folder.

Safety



Warning!

Risk of explosion if battery is replaced by incorrect battery type.

Dispose of used batteries according to the instructions.

Caution

Replacement of a BATTERY with an incorrect type that can defeat a SAFEGUARD (for example, in the case of some lithium BATTERY types).



Disposal of a BATTERY into fire or a hot oven, or mechanically crushing or cutting of a BATTERY, that can result in an EXPLOSION.

Leaving a BATTERY in an extremely high temperature surrounding environment that can result in an EXPLOSION or the leakage of flammable liquid or gas.

A BATTERY subjected to extremely low air pressure that may result in an EXPLOSION or the leakage of flammable liquid or gas.



Make sure to connect the power cord to a socket-outlet with earthing connection.

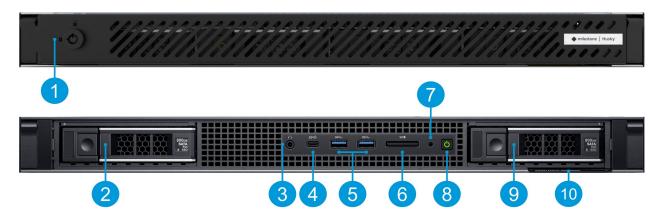
Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.

About this guide

This getting started and maintenance guide for Milestone Husky IVO is a point of reference to the Milestone Husky software and Milestone Husky hardware.

This guide describes Husky Assistant, an application that helps you install, maintain, and reconfigure your system.

Front view



1. Bezel lock	4. USB 3.2 Type-C Gen2 (10Gbps)	7. Drive activity
2. 3.5"Hard drive slot 0	5. 2 x USB 3.2 Type-A Gen1 (5Gbps)	8. Power button
3. Universal audio jack	6. SD card reader	9. 3.5" Hard drive slot 1
		10. Information tag

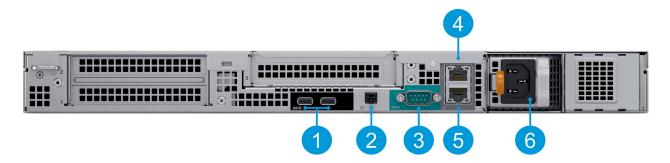
Bezel

To remove the bezel, unlock the bezel lock and the bezel comes off.

When mounting the bezel, mount the right side first, then on the left side, press the button behind the tab to secure the bezel. When mounting is complete, remember to lock the bezel.



Back view



1. 2 x USB 3.1 Type-C Gen2 (video support)	4. RJ-45 network port 0 (1Gb/s)
2. Remote power switch	5. RJ-45 network port 1 (10Gb/s)
3. DB9 serial com port	6. Power supply

Information tag

You can identify your system by the information tag. Pull out the information tag in front of the system to view the unique identifiers. The information tag holds information of:

Service tag	The unique express service code and service tag. Refers to the serial number of the unit. Always provide the details when contacting support.
Main board ethernet card MAC address	The physical address (MAC address) of the on-board ethernet card.



The information tag can sometimes be referred to as the luggage tag.

Link to detailed hardware documentation

For more information on the specific features and functionality or your unit, see Installation and service manual.

For VGA video support, use the supplied USB type-C to VGA dongle.



The documentation provided can have slightly different specifications or configurations compared to your Milestone Husky IVO unit.

Getting started checklist

This guide applies to all models of the Milestone Husky IVO. Follow the checklist below to ensure that you carry out the steps of your installation in the right order.

Prepare network and devices	 Assign static IP addresses to all system components and cameras Make sure camera models and firmware are supported by the XProtect system Cameras must be connected to the network, and you can access them from your unit
Obtain a software license code	 Purchase XProtect software and obtain the license file Go to the Milestone website (https://online.milestonesys.com/) and register your software license code (SLC) This step does not apply if you are using an XProtect Essential+ license
Prepare your unit	 Mount the unit on a shelf for the desktop and tower models, or use rails for the rack models, to support the chassis Connect peripherals, LAN, and power
Turn on the unit and complete the Husky Assistant	 Configure computer name and domain or workgroup settings Hard drive detection Select the preferred storage configuration Select the XProtect software version Links to detailed description of system installation
Download the latest XProtect Device Pack	 A device pack is automatically included when you install the XProtect software. For support of new devices and firmware versions, get the latest device pack
Update Windows®	Make sure that your Windows operating system is updated with all the latest Windows updates
Install clients on other computers	Install XProtect Smart Client and XProtect Management Client on other computers for better system performance

Before you install

Milestone recommends that you go through the steps described in this article before you start the actual installation.

Prepare network and devices

- 1. Assign static IP addresses to all system components, devices, and cameras.
 - To prepare and configure your devices or cameras, follow the instructions provided by the camera manufacturer.
- 2. Make sure that your cameras and devices are supported and connected to the camera network.
 - On the Milestone website, you can find a detailed list of supported devices and firmware versions (https://www.milestonesys.com/supported-devices/).

Obtain a software license code

Your Milestone Husky unit is shipped with XProtect video management software pre-loaded, and you can use it with any version of the five XProtect VMS products by applying a valid software license code (SLC). You receive the SLC when you purchase the XProtect product. Read more about Milestone XProtect products and Milestone Care™ coverage on the Milestone website to find out which product matches your needs.

The SLC is printed on your order confirmation, and the software license file is named after your SLC. Milestone recommends that you register your SLC on the Milestone website (https://online.milestonesys.com/) before installation. Your reseller may have done that for you.

You can also run the free version of XProtect Essential+ on your unit. This version provides you with basic functionality and a limited number of cameras compared to a purchased XProtect VMS system. In this case, the license is provided with the installer. To receive this free license, your unit needs to be connected to the internet during installation.

When you run Husky Assistant, you can see the version of the pre-loaded VMS. If you want a different version, you can choose that option if you have a valid SLC.

If your unit is used as a recording server to an existing VMS system, you do not need an SLC. This setup is covered by the SLC that you bought with the VMS system.

XProtect software is licensed through different types of licenses:

- Base licenses: Controls which XProtect product you can use.
- Device licenses: Controls how many hardware devices you may connect to the Milestone Husky unit. A hardware device can be a camera, encoder, or similar, identified by a separate IP address. You do not need licenses for speakers, microphones, or input and output devices attached to the hardware devices.
- Add-on product licenses: Your new Milestone Husky unit can run any XProtect add-on product. Most XProtect add-on products require additional licenses.

After installation, the surveillance system runs on licenses that need to be activated before a certain period ends. This is the grace period. Once the installation is complete, you can get an overview of your licenses for all installations with this SLC on the Basics > License Information node in the Management Client.

Milestone recommends that you activate your licenses before you make the final adjustments.

- For online activation, log in to the Software Registration page with your My Milestone account on the Milestone website (https://online.milestonesys.com/).
- For offline activation, you must export a license request (.lrq) file in the Management Client, and then log in to the Software Registration page and upload the .lrq file.

Once you have uploaded the .lrq file, Milestone emails you an activated .lic file for import.

Prepare your unit



Always place the unit on a shelf or use rails to support the chassis.

- 1. Connect your peripherals: mouse, keyboard, display and audio.
- 2. Connect your local area network with internet connection, if available, to a NIC port. This network is for management and viewing.
- 3. Connect your camera network to a different NIC port. If your unit is equipped with a higher bandwidth network card, connect your camera network to the this network port.
- 4. Connect all power cables and plug them into a power socket.

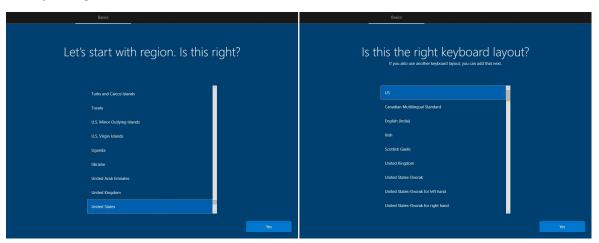
Turn on the unit

Turn on your Milestone Husky unit and wait for Windows to boot for the first time.

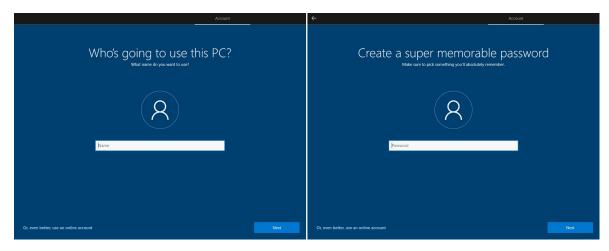
Windows first run

Configure the country, language, keyboard, and account information:

1. Select your region and click Yes.

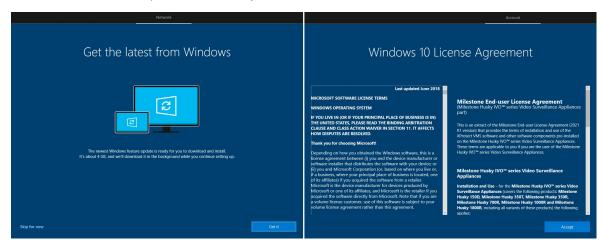


- 2. Select the right keyboard layout and click **Yes**.
- 3. Add a second keyboard layout or click **Skip**.
- 4. Create a user account and click Next.



- 5. Create password and click **Next**.
- 6. Confirm password and click **Next**.
- 7. Add a hint and click **Next**.

8. **Get** the latest Windows updates or click **Skip for now**.



- 9. **Accept** the license agreements.
- 10. Complete the services selection and wait for the Windows desktop to appear.

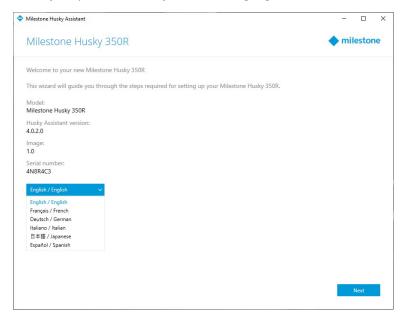
Complete the Husky Assistant Wizard

Husky Assistant now starts automatically. This wizard helps you check, select, and configure your Milestone Husky IVO with:

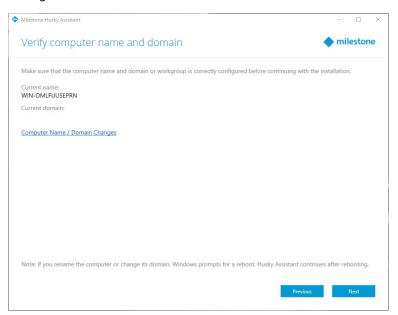
- Computer name and domain or workgroup
- Data storage drive detection
- Data storage configuration
- Milestone XProtect version
- Additional system optimizations

To complete the wizard:

1. Select your preferred Husky Assistant language and click Next.



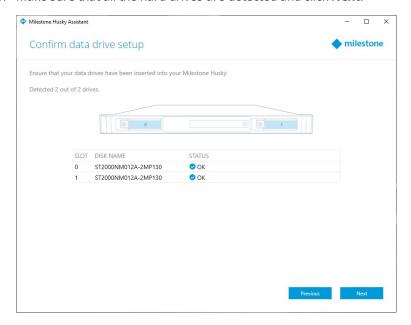
2. Click **Computer name / Domain changes** to configure computer name and domain or workgroup settings.



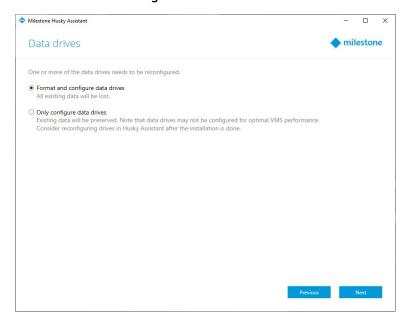
When completed, Windows will require a restart to apply the changes.

- 3. Restart Windows and wait for Windows to boot.
 - Husky Assistant restarts. Click Next.
- 4. Because you have already configured the name and domain setting, click **Next**.

5. Make sure that all the hard drives are detected and click **Next**.



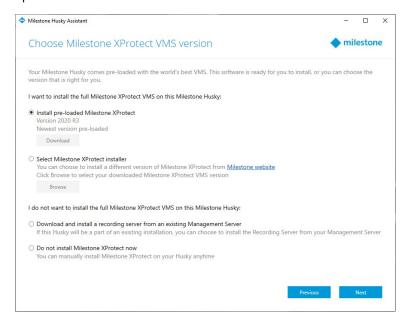
6. Select Format and configure data drives and click Next.





When performing a recovery of your Husky unit, select the **Only configure data drives** option to keep your data.

7. You have different options when selecting the Milestone XProtect version to install. Select one of these options:

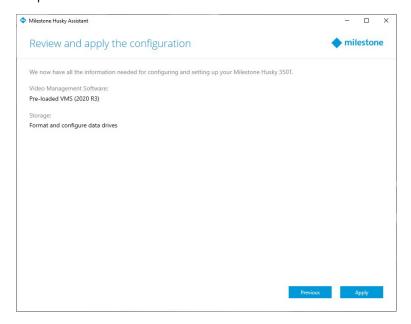


- Check if the pre-loaded XProtect version is the version that you want to install. If yes, select Install pre-loaded Milestone XProtect and click Next.
- If you want to install an XProtect version different than the pre-loaded one:
 - 1. Choose Select Milestone XProtect installer.
 - 2. Download the XProtect version that you prefer from the Milestone website.
 - 3. Click Browse to select the downloaded installer file and click Next.
- To use your unit as a recording server in an already existing Milestone XProtect system:
 - 1. Select Download and install a recording server from an existing Management Server and click Next.
 - 2. Provide the IP address of the computer with the management server installed, and credentials.
 - 3. Click Next. The installation files for the recording server will be downloaded from the management server later.
- Select Do not install Milestone XProtect now if you want to install Milestone XProtect later without the aid from Husky Assistant.



Remember to apply optimizations in Husky Assistant after installation.

8. The Review and apply the configuration window appears. Verify your selections and click Apply to start the process.



The system automatically starts the Milestone XProtect installation. Continue to XProtect VMS administrator manual for detailed description of Milestone XProtect installation.

After you have completed the Husky Assistant wizard, the application changes and Husky Assistant serve as an application that helps you configure, maintain, and see the status of your Milestone Husky system. Find the Husky Assistant shortcut on the Windows desktop.

Post-installation tasks

Download the XProtect® Device Pack

A device pack is a set of drivers that is installed with your XProtect system to interact with your devices. A device pack is installed on the recording server. Milestone adds support for new devices and firmware versions on an ongoing basis, and releases device packs every two months on average. A device pack is automatically included when you install the XProtect system. To get the latest device pack, manually check for newer versions to download and install.

To update your device pack after installation, go to the download section of the Milestone website (https://www.milestonesys.com/downloads/) and download the relevant installation file.



If your system uses very old cameras, you may need to download the device pack for legacy devices. For more information, see

https://www.milestonesys.com/community/business-partner-tools/device-packs/.

Update Windows

To update your Windows operating system with all the latest Windows updates, go to Windows Update settings and check for updates. Make sure to install all available updates and restart the Husky unit if required.

Install clients on other computers

You can access your XProtect system from other computers via the clients. Accessing the clients from remote computers will give you better system performance and free up system resources on your Milestone Husky unit. The clients are:

- XProtect Smart Client (used for viewing video)
- XProtect Management Client (used for configuring and managing the system)

For detailed description of client installation, see:

Install XProtect Smart Client

Install XProtect Management Client

Husky Assistant

Husky Assistant is an application that helps you configure, maintain, and see the status of your Milestone Husky system. Find the Husky Assistant shortcut on the Windows desktop.

Husky Assistant Properties

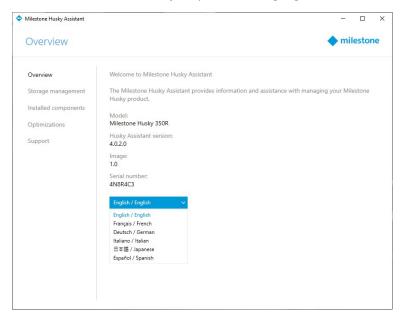
The Husky Assistant has the following features:

Navigation element	Description
Overview	 A list of details about the unit: Model: Milestone Husky model Version: Milestone Husky Assistant version Image: Husky firmware version Serial number: Refers to the service tag of the unit You can change the language in which Husky Assistant appears.
Storage management	Information about the available data storage hard drives. See the status of the disks.
Installed components	A list of installed Milestone software components and versions.
Optimizations	A list of applied or available optimizations you can apply.
Support	Run the Milestone Diagnostics Tool to create files that are needed for the Milestone reseller when the reseller helps you troubleshoot. Lists the information that you need to contact Milestone Support. Always contact your Milestone reseller that you have bought the unit from before contacting Milestone Support. Shows the current version of Milestone Husky Services software. Link to Milestone Support.

Choose your language

To select your preferred language:

- 1. Open Husky Assistant.
- 2. On the **Overview** tab, select your preferred language from the list of available languages.





Husky Assistant chooses English by default. All language changes require a restart of Husky Assistant.

Storage management

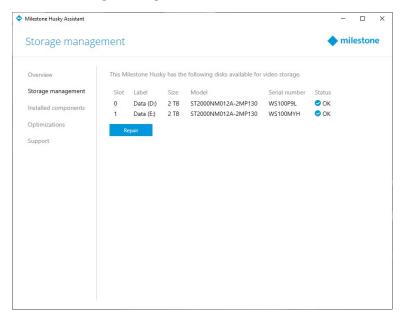
On this tab you can see information about and the status of data hard drives.

You can also identify a faulty hard drive and prepare new hard drives for use with Milestone XProtect VMS.

Check data hard drive status

To check the status of the data hard drives:

1. Select the **Storage management** tab.



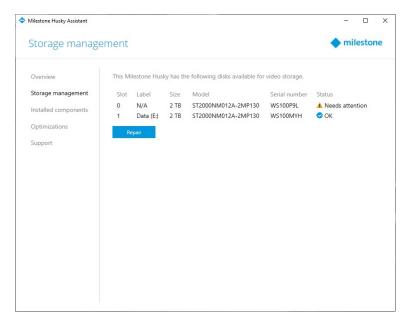
2. The status of the data storage hard drives is shown. The different states are:

Status	Description
ОК	Normal working state.
Needs attention	The hard drive is missing a configuration that you can apply. For more information, see Prepare hard drives.
Failed	The hard drive is faulty. Get the hard drive replaced. After replacement, see Prepare hard drives.

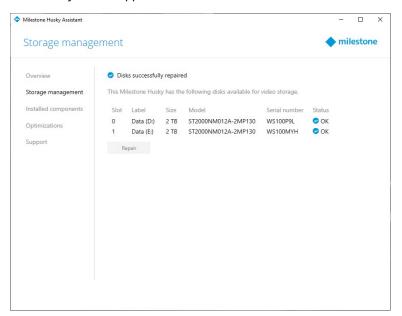
Prepare hard drives

How to prepare a disk for use in Milestone XProtect VMS:

1. If there are one or more hard drives in the list with a status **Needs attention**, click **Repair**.



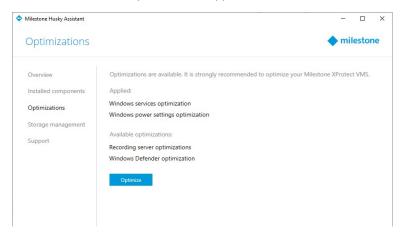
- 2. Accept any user account control warning and wait for the repair to be completed.
- 3. A summary screen appears. Check that the hard drive status is **OK**.



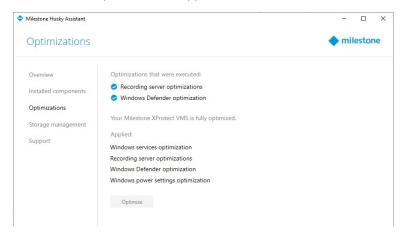
Apply optimizations

Husky Assistant can help you to optimize Windows for running XProtect software and to optimize XProtect software for running on your Husky unit. If you have installed Milestone XProtect VMS without using Husky Assistant, you need to apply the available optimizations. To check if any optimizations are available:

- 1. Select the **Optimizations** tab.
- 2. A list of the available optimizations appears.



- 3. If an optimization is available, click Optimize.
- 4. Accept any user account control warning and wait for the optimization to be applied.
- 5. Check that the optimization is applied.



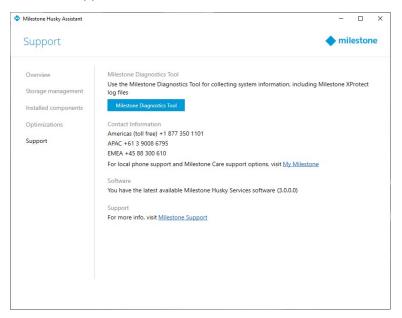
Support

If you have a problem and need support, contact your Milestone reseller that you bought the unit from.

Create a diagnostics file

To help your Milestone reseller get logs and details about your system, create a Milestone diagnostics .zip file that lists the system information:

1. Select the **Support** tab.



- 2. Click Milestone Diagnostics Tool.
- 3. Accept any user account control warning. The Main Page appears.
- 4. Click the **Collect Defaults** icon to start creating a diagnostics .zip file.



5. When finished, the diagnostics .zip file is saved on the Windows desktop. You can now move or transfer the file to any preferred location.



- 6. Close Milestone Diagnostics Tool.
- 7. Provide your Milestone reseller with the diagnostics .zip file when they assist you in troubleshooting a problem.

Recovery

You can do a recovery on your Milestone Husky unit, which resets your unit to the factory default state and lets you start over and reconfigure your unit from scratch.

Recovery will:

- Make a new Windows installation
- Run Husky Assistant wizard to configure your unit
- Help you install Milestone XProtect



All data on the Windows (C:) drive will be lost, and your XProtect system will not record any video during the recovery of your unit. You can save the Milestone XProtect VMS configuration before you start the recovery.



Data on the Data (D:) and Data (E:) drives will not be deleted.

For detailed feature descriptions and procedures for configuration and maintenance, see the administrator manual for XProtect VMS.

Before the recovery process:

- 1. Contact Milestone support to get the latest recovery software.
- 2. Get help from Milestone support to create a bootable USB flash drive.
- 3. Connect the USB flash drive to your Milestone Husky IVO unit.
- 4. Prepare the BIOS settings to boot from USB flash drive.

To start the recovery process:

- 1. Restart your unit.
- 2. Boot from the USB flash drive.
- 3. Your unit boots into recovery mode. Follow the instructions to complete the process.



For more information on first time use, see Turn on the unit on page 14 and Complete the Husky Assistant Wizard on page 16.

XProtect Upgrade

Your Milestone Husky unit can run with any product variant and version of Milestone XProtect VMS determined by the Software License Code (SLC). Your Milestone Husky unit has a preloaded XProtect VMS version ready to be installed, but you can always download and install a newer or older version of Milestone XProtect VMS that matches your license.

You can upgrade your entire system configuration from one product version to another, for example from XProtect 2020 R3 to XProtect 2021 R1. You can install the new product on top of the old version without removing the previous version.



Remember to apply available VMS optimizations after the upgrade. For more information, see Husky Assistant on page 22 > Apply optimizations.

System scaling

To be able to scale to thousands of cameras across multiple sites, the system consists of components that handle specific tasks. If you have installed all components on a standalone Milestone Husky IVO unit, you can expand your system by installing the components on separate dedicated servers in a distributed system to scale and distribute the load.

Not all components are needed in all installations. You can always add additional recording servers, failover recording servers, or XProtect Mobile servers for hosting and providing access to XProtect Mobile client and XProtect Web Client.



helpfeedback@milestone.dk

About Milestone

Milestone Systems is a leading provider of open platform video management software; technology that helps the world see how to ensure safety, protect assets and increase business efficiency. Milestone Systems enables an open platform community that drives collaboration and innovation in the development and use of network video technology, with reliable and scalable solutions that are proven in more than 150,000 sites worldwide. Founded in 1998, Milestone Systems is a stand-alone company in the Canon Group. For more information, visit https://www.milestonesys.com/.







