

# Matrox<sup>®</sup> Video

## Matrox<sup>®</sup> Central Manager User Guide

Doc # 20395-301-0100  
2026.05.20

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# Introduction

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Matrox Central Manager is a free, easy-to-use application that simplifies the deployment and management of Matrox Video devices on IP networks. With the ability to streamline key deployment tasks, the application reduces set-up time and improves efficiency for system administrators. The application enables users to quickly locate supported Matrox Video devices within their network infrastructure, supports hassle-free firmware updates across one or more connected devices, and makes it easy to activate or update relevant software licenses across multiple devices.

## Supported Matrox products

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You can use Matrox Central Manager with the following Matrox products:

- Matrox Avio 2 Series
- Matrox ConductIP
- Matrox Maevox MGX Series
- Matrox Mura DVW
- Matrox Vion Series

For information on all our product lines, see our [website](#).

## Supported operating systems

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Matrox Central Manager supports the following operating systems:

- Microsoft® Windows® 11 (64-bit)
- Microsoft® Windows® 10 (64-bit)

# User interface overview

When you run the Matrox Central Manager, the user interface displays all Matrox devices detected on the same network subnet as the computer running the application. This section explains how to navigate the user interface and describes the areas where you can update or manage your devices.



Numbered area	Description
(1) - Detected products	Your detected Matrox devices are displayed here, filtered by product line. For a Matrox device to be auto-detected, it must be on the same subnet as the computer running the Matrox Central Manager. You can also use the <b>IP search</b> to detect devices on different subnets.
(2) - Filters	In addition to filtering by product line, you can filter by different categories.
(3) - Device bin	The Device bin shows which devices are available for you to manage (see <a href="#">Managing the device bin</a> ).
(4) - Device properties	The Device Properties area displays details about the selected device. After logging in (see <a href="#">Logging in to your devices</a> ), additional options become available in this area (see <a href="#">Managing device properties</a> ).
(5) - Notifications and preferences	This area displays application notifications (e.g., error messages) and provides access to preferences and additional information, such as this user guide.

# Logging in to your devices

You must log in to your devices before using Matrox Central Manager to perform actions on them. All detected Matrox devices are displayed in the Device bin area. If a device does not yet have an administrator account, you must create one (see [Creating administrator accounts for new devices](#)).

To log in to your device(s):

1. Click on the device(s) you want to log in to. You can log in to a single device or use **Ctrl+click** or **Shift+click** to select multiple devices.

**Note**

You can only log in to multiple devices if they have the same credentials.



2. Click **Log in**.

**m**

## Log in to 4 devices

Authenticate to manage the selected devices

Local Domain

Username *required*

Password *required*

Log in

3. Enter the required credentials.

4. Click **Log in** to log in to your devices.

You are logged in to your Matrox devices and can proceed with further actions.

# Creating administrator accounts for new devices

All Matrox devices displayed in the Matrox Central Manager must have an initial administrator account before any actions, such as firmware updates, can be performed. You can create this administrator account through each device's specific configuration page or by using the Matrox Central Manager. Devices without an administrator account will show a green **CREATE ACCOUNT** option.

## Note

When you create an account through the Matrox Central Manager, you can only create a local administrator account, not a domain one.

The screenshot displays the Matrox Central Manager interface for Avio 2 devices. The main area shows a grid of device cards, each representing a Matrox Avio N2150. The cards are organized into rows and columns. The top row contains five cards, with the last one (DA37057) highlighted in blue and featuring a green 'CREATE ACCOUNT' button. The bottom row contains five cards, with the first one (DA48276) highlighted in orange. The bottom navigation bar includes a 'Log in' button, a 'Create first account' button (highlighted in green), and three menu items: 'Update firmware', 'Install licenses', and 'Configure settings'.

Serial	Serial	Serial	Serial	Serial
DA12454	DA82177	DA12448	DA12453	DA12455
DA12458	DA12461	DA37049	DA37057	DA48276
DA64593	DA82176	LB-TX-DA37060	MAIGAN-TX	

To create an administrator account on a Matrox device:

1. Click on the device(s) for which you want to create administrator accounts. You can select a single device or use **Ctrl+click** / **Shift+click** to select multiple devices.

## Note

You can only create administrator accounts for multiple devices if you use the same credentials for all of them.

2. Click **Create first account**.

**Create first account**

Create an initial administrator account to manage DA37057.

Username *required*

Password *required*

10 to 64 characters

At least one lowercase letter

At least one uppercase letter

At least one digit

At least one special character (e.g. !@#\$%)

**Create**

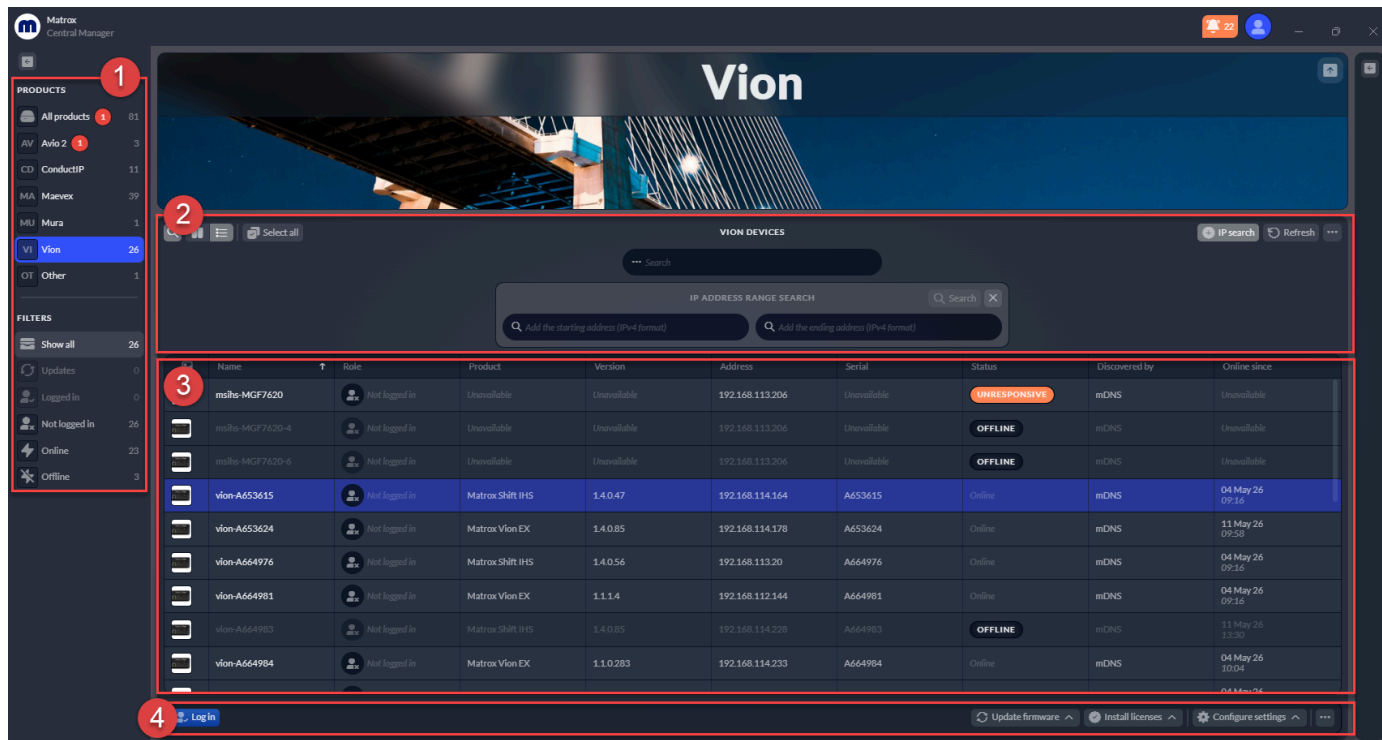
3. Enter the **Username** and **Password** for the administrator account.

4. Click **Create**.

The administrator account is created, and you can now log in as you would with any other device (see [Logging in to your devices](#)).

# Managing the device bin

The Device bin is where all detected Matrox devices are displayed.



Numbered area	Description
(1)	You can filter the Device bin to show all devices or a specific Matrox product line of devices (e.g. Vion), and you can filter your view by different categories. For example, click <b>Logged in</b> to show only the devices that are logged in to.
(2)	These are the Device bin viewing options. Use <b>Search</b> to filter devices in the bin by text in their properties (e.g., part of an IP address or serial number). Display devices in tile view or list view. Click <b>Select all</b> to select all devices shown in the bin. Use <b>IP search</b> to search a range of IP addresses and detect devices across subnets. Click <b>Refresh</b> to scan for new devices on the same subnet. Click the <b>More</b> menu (...) to access additional options.
(3)	This is the main list of detected devices. The Matrox Central Manager displays the status of devices (e.g., offline, unresponsive) and indicates which devices do not yet have an administrator account (see <a href="#">Creating administrator accounts for new devices</a> ).
(4)	These are the actions that can be applied to the selected devices. Once you <b>Log in</b> , you can <b>Update firmware</b> , <b>Install licenses</b> , <b>Configure settings</b> , or click the <b>More</b> menu (...) to access additional options.

# Managing device properties

The device properties area displays information about the device. When multiple devices are selected, this area displays the information for the last selected device. The last selected device appears in blue.

Some information, such as installed licenses, is only visible when you are logged in to the device (see [Logging in to your devices](#)).

The screenshot displays the Avio 2 management interface. The main area shows a list of three Avio N2150 devices. The third device, with serial number X100039 and IP address 192.168.114.128, is highlighted in blue and enclosed in a red box. A red arrow points from this device to the 'DEVICE PROPERTIES' sidebar on the right, which is also enclosed in a red box. The sidebar shows detailed information for the selected device, including its product name, address, version, serial number, and discovery method. It also lists network interfaces and active licenses, with 'JPEG XS' shown as installed.

DEVICE PROPERTIES	
Product	Matrix Avio 2 N2150
Address	192.168.114.128
Version	1.01.0197.0205
Serial	X100039
Discovered by	mDNS
Online since	13 May 2026 09:13
Network interfaces	
LAN Control	192.168.114.128
Active license	
JPEG XS Installed	

When supported by the product firmware, the **Settings** tab lists the settings of the selected device, grouped by category. The categories are based on the product family.

If multiple devices are selected, the tab displays the settings of the last selected device (in blue). Settings that are identical across all selected devices appear grayed out. An asterisk indicates a setting that differs from other selected devices. To display only the settings that differ, enable **Show only settings that differ**.

The screenshot displays the Avio 2 management interface. The main area shows a list of three Avio N2150 devices. The middle device, X100038, is highlighted in blue. A red dashed box highlights the first two devices, and a red solid box highlights the third device. A red arrow points from the highlighted device to the 'Settings' tab in the 'DEVICE PROPERTIES' panel on the right. The 'Settings' panel shows a toggle for 'Show only settings that differ' which is currently turned off. Below this, a list of settings is shown, with some settings marked with an asterisk to indicate they differ from other selected devices. The settings are grouped into categories: Network, Nmos, Other, Discovery, and Time.

Device	Matrix	Address	Version	Serial
Avio N2150	LB-TX-DA37060	192.168.96.179	1.02.0090.0327	DA37060
Avio N2150	X100038	192.168.114.116	1.02.0090.0327	X100038
Avio N2150	X100039	192.168.114.128	1.01.0197.0205	X100039

**DEVICE PROPERTIES**

Information Settings

X100038  
Avio 2

Show only settings that differ  
Between 2 selected compatible devices

Version 1.2

- Network \*
  - Global Settings \*
  - Lan Control Settings
  - Sfp1 Control Settings
  - Sfp1 Media Settings
  - Sfp2 Control Settings
  - Sfp2 Media Settings
- Nmos \*
  - Settings \*
- Other \*
  - Device Identity \*
  - Button Settings
  - Operational Mode Settings Rtc \*
- Discovery
  - Ulnar Discovery
  - Mitra Discovery
- Time \*
  - Time Keeping Settings \*

\* Indicates settings that differ between the selected devices.

# Updating device firmware

You can update the firmware of one or more Matrox devices in the same product family at the same time by selecting them in the [device bin](#).



To update your device:

1. Obtain the correct firmware package file from the [Matrox website](#), and save it to your computer.
2. Click on the devices you want to update.
3. [Log in to your devices](#).
4. Click **Update firmware**.
5. If Matrox Central Manager contains previously added firmware files, click **+Firmware**.

6. Drag and drop the firmware package where indicated, or click **Choose a firmware package** to browse to a folder on your computer.

Once the firmware file is uploaded, eligible devices will be indicated with a red badge.



7. Click **Install**.



8. To reset the device configuration during the firmware update, select **Erase all configuration files**.

**Caution**

When downgrading firmware, **Erase all configuration files** is selected by default. Deselecting this option during a firmware downgrade may produce unexpected results.

9. Click **Ok**. Your Matrox devices will restart and then be available for you to log in again.

Your Matrox devices have been updated.

**Note**

The application limits concurrent uploads to 10 devices. Remaining devices are queued.

# Updating device licenses

You can update the licenses of one or more Matrox devices in the same product family at the same time by selecting them in the [device bin](#).

To update your license:

1. With your devices selected, open the **More** menu in the device bin, select **Save serial numbers to file**, then save the `.json` file to your computer.

## Note

Serial numbers can be saved only when the selected devices are in the same product family.

The `.json` file contains the serial numbers of the devices you want to update. You can open the file in Notepad to confirm the serial numbers are correct.



2. Send the file to Matrox via the Matrox web store. You will receive an update file (`.Jic`) for the devices that correspond to the serial numbers in the `.json` file.

3. In the device bin, select and log in to the device(s) you want to update.

You must be logged in to the devices to update their licenses.



4. Click **Install licenses**.

5. If Matrox Central Manager contains previously added license files, click **+License**.

6. Drag and drop your *.lic* file into the area indicated, or click **Choose a license file** to browse to a folder on your computer.

Once the *.lic* file is uploaded, eligible devices will be indicated with a red badge.

7. Click **Install**.

Your device(s) have been updated.

# Cleaning up firmware and license files

After you have updated your devices, you can remove the firmware and license files from device storage to free up space.

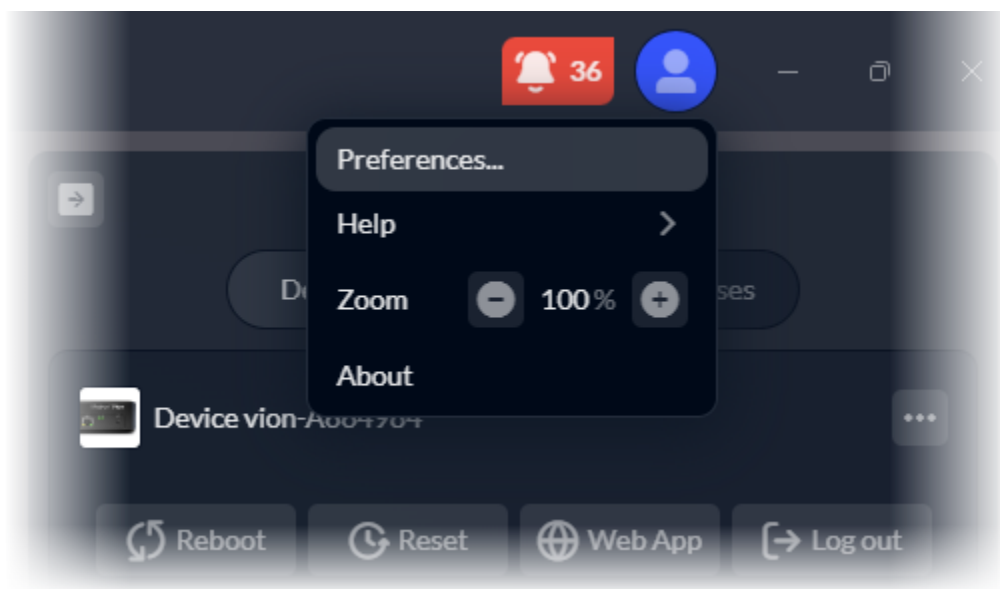
## Note

Removing a file from device storage does not affect the firmware or license installed on a device.

## Deleting all files

To clean up your file storage:

1. Go to the **Notifications and preferences** section of the menu.

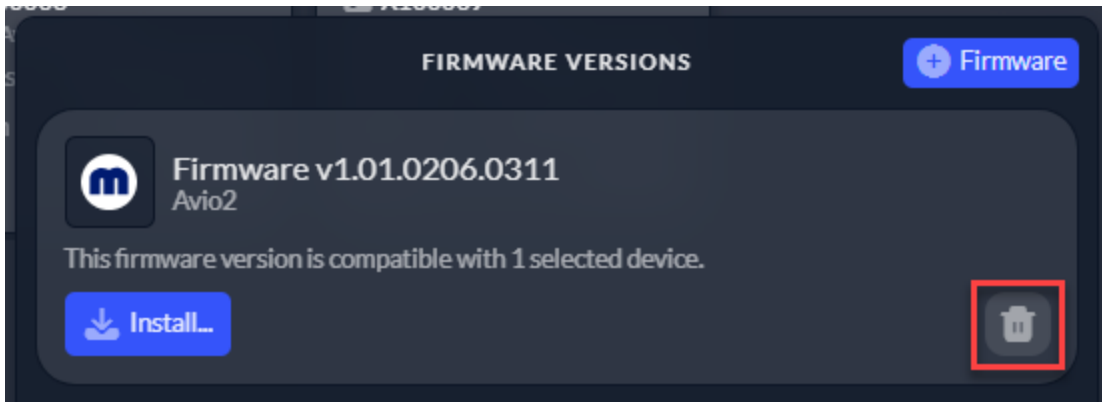


2. Select **Preferences**.
3. Select **Firmware** or **License files**.
4. Click **Delete all**.
5. Click **Save**.

The files are deleted.

## Deleting a single file

To remove a single file, click its **Delete** button in the **Update firmware** or **Install licenses** window.



# Configuring settings

When supported by the product firmware, Matrox Central Manager allows you to:

- [Copy settings](#) from one device and [paste them](#) to another.
- [Back up device settings](#) to a JSON file or [restore device settings](#) from a JSON file.
- [Export device settings](#) to an Excel file or [update device settings](#) from an Excel file.

## Copying settings from one device to another

Settings that can be safely used on multiple devices can be copied from one device and pasted to other devices in the same product family with the same firmware version.

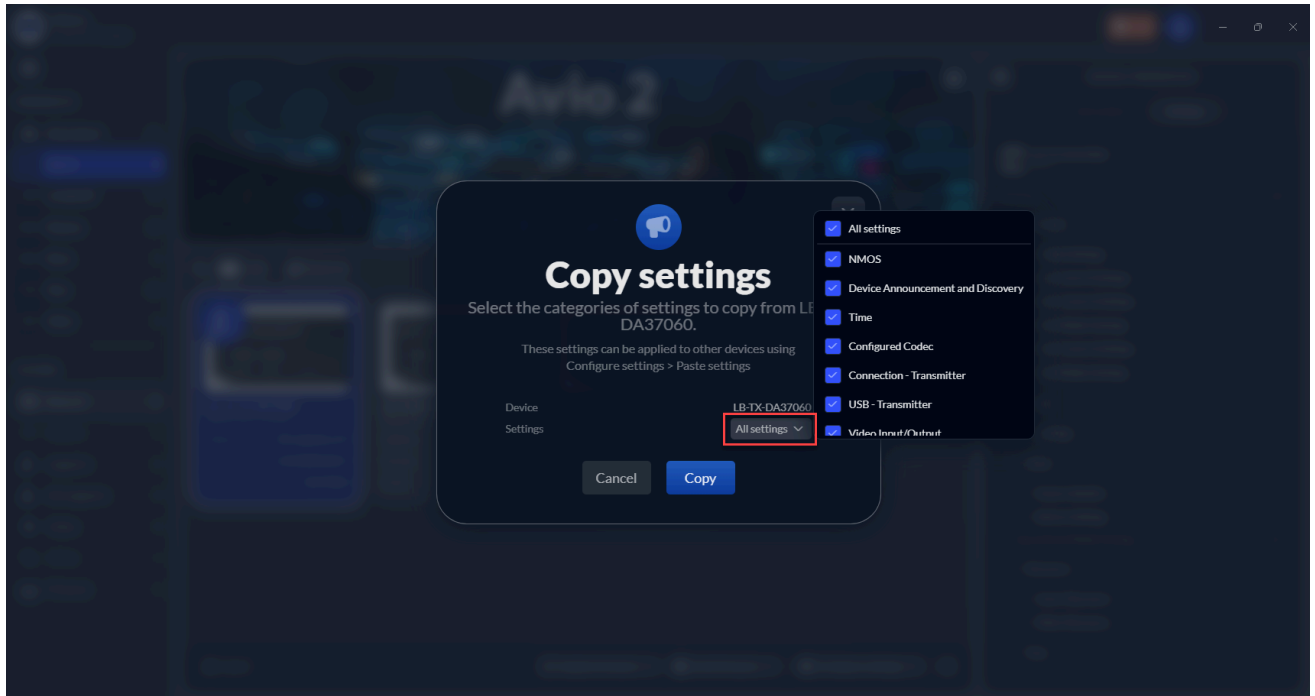
### Copying settings

To copy a device's settings:

1. In the device bin, select a device and log in to it.



2. Click **Configure settings** and select **Copy settings**.



3. Click the **Settings** drop-down list and select the settings categories to copy. The list label changes to reflect the selection.

4. Click **Copy**.

The settings have been copied to the clipboard and **SETTINGS COPIED** appears on the device from which the settings were copied.

**Note**

Settings categories vary by product family.

## Pasting settings

Settings that were copied to the clipboard can be applied to multiple devices of the same product family.

### Note

Only the most recently copied settings can be pasted to a device.

To apply copied settings to devices:

1. in the device bin, select and log in to the device(s) you want to paste settings to.



2. Click **Configure settings** and select **Paste settings**. The application indicates which devices can be updated with a paste action and which ones cannot.
3. Click **Ok**. Your Matrox devices will restart and then be available for you to log in again.

The devices have been updated.

### Note

Selecting more devices or more settings categories increases the update time. When the process is complete, a notification indicates success, partial success, or an error.

# Updating settings from a file

Restore or update device settings by importing them from a JSON file or an Excel spreadsheet.

## Note

Secret settings, such as PEP stream encryption keys, will be updated if they are included in the JSON file.



## Updating settings from a JSON file

Use JSON files to restore device settings that were previously [backed up](#). Each JSON file corresponds to one device. The file must contain the serial number of the device.

To update settings from JSON files:

1. In the device bin, select and log in to the device(s) you want to update.
2. Click **Configure settings**, select **Update settings**, then choose **from JSON file**.
3. Browse to the JSON files and open the ones that correspond to the selected devices.
4. The application indicates whether each selected device can be updated.
5. Click **Ok**. Your Matrox devices will restart and then be available for you to log in again.

The devices have been updated.

# Updating settings from an Excel file

Use an Excel spreadsheet to configure new devices or update settings on previously configured devices.

## Note

When updating settings from an Excel file, the spreadsheet must match the format of [an Excel file exported from Matrox Central Manager](#).

To update settings from an Excel spreadsheet:

1. In the device bin, select and log in to the device(s) you want to update.
2. Click **Configure settings**, select **Update settings**, then choose **from Excel file**.
3. Click **Choose file**.
4. Browse to the Excel file and open it. The application indicates which of the selected devices can be updated from the chosen file.
5. Click **Update**. Your Matrox devices will restart and then be available for you to log in again.

The devices have been updated.

# Exporting settings to a file

You can export device settings to a JSON file or an Excel file as a backup, or to modify settings.

## Note

Secret settings, such as PEP stream encryption keys, are omitted from the exported file.



To export device settings to a file:

1. In the device bin, select and log in to the device(s) whose settings will be saved.
2. Click **Configure settings**, select **Export settings**, then choose **to JSON file** or **to Excel file**.
3. Click **Ok**.
4. Save the file to your computer.

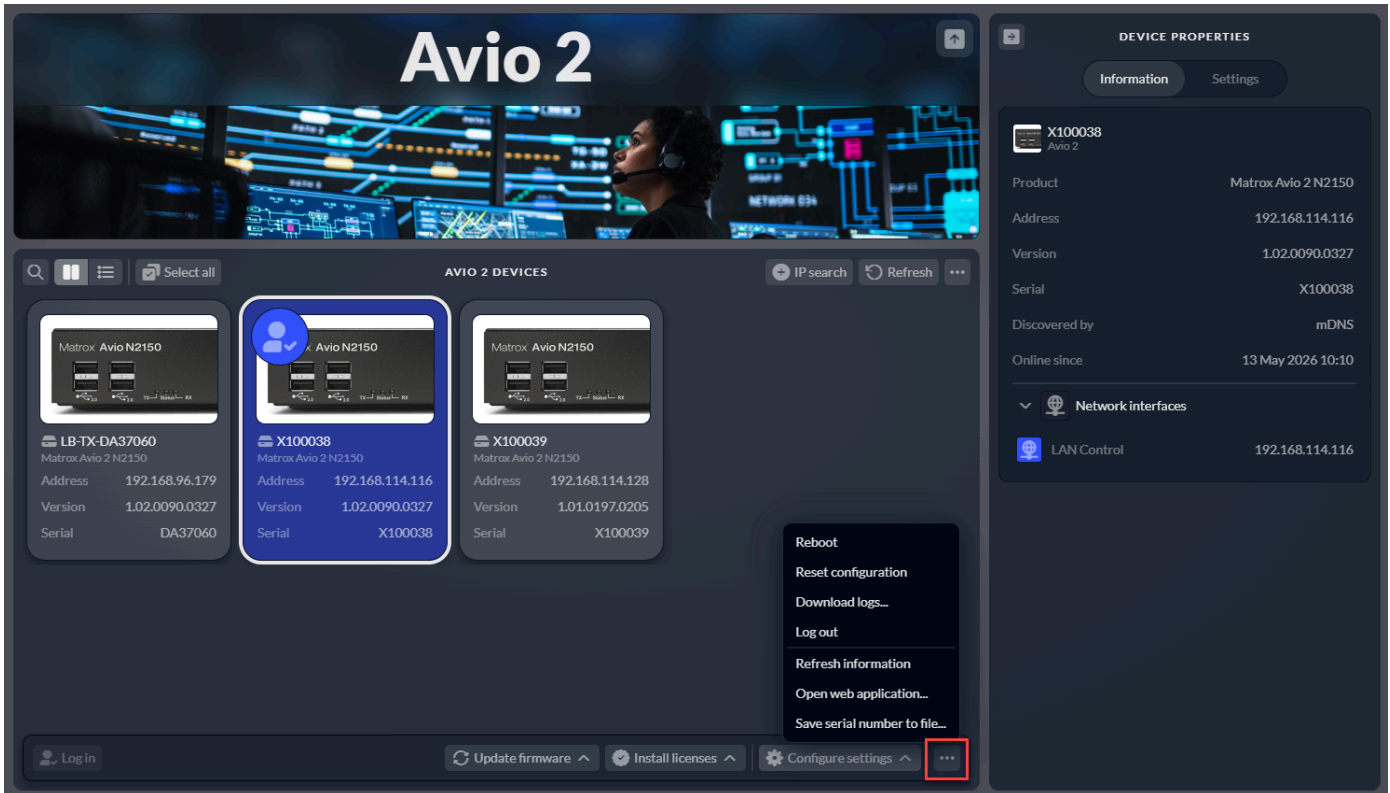
The device settings have been saved in the selected folder, in the chosen format. These files can be [modified](#) and used to [update or restore device settings](#).

**Note**

When exporting the settings of multiple devices, the export is a *.zip* file. The *.zip* file contains one JSON file per device. When exporting to Excel format, each file in the *.zip* file contains devices from the same product family with the same firmware version. Each row represents one device.

# Additional device bin options

Additional actions can be executed from the Device bin **More** menu or by right-clicking on a device. These actions can be applied to multiple devices at the same time.



For selected devices that are logged in:

- Reboot the device
- Reset the device configuration
- Download logs
- Log out of the device

For all selected devices:

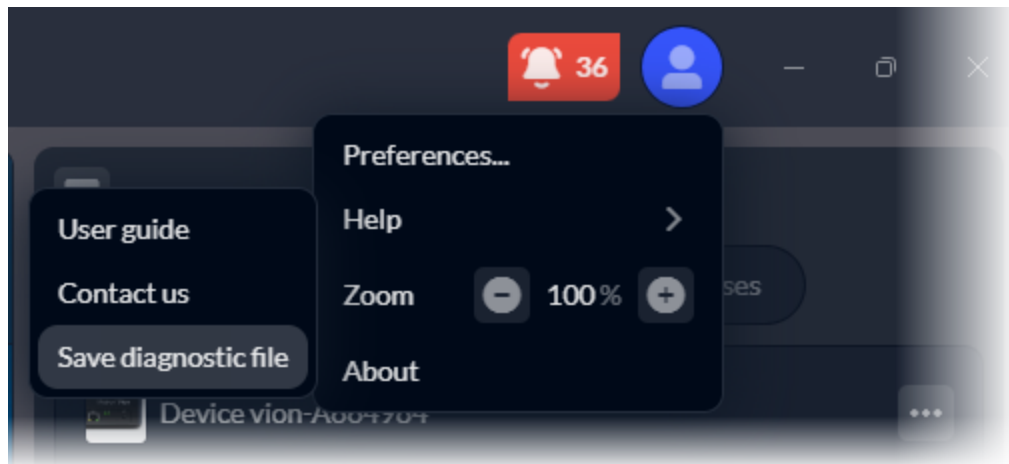
- Refresh device properties
- Open the web application
- Save serial numbers to a file

# Troubleshooting and diagnostics

If you require troubleshooting or technical support for Matrox Central Manager, you can download a diagnostics file. This file helps Matrox Technical Support assist you more effectively.

To download the diagnostics file:

1. Go to the **Notifications and preferences** section of the menu.



2. Select **Help** and choose **Save diagnostic file**.
3. Save the *.snapshot* file to your computer and have it ready for your technical support session.

Your diagnostics file has been downloaded.

# Where to find more information

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All products available in Matrox Central Manager include product-specific help to control and configure them. Documentation for all Matrox products is available on our [website](#).

# Appendix: Using an Excel file to modify settings

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The settings in an exported Excel file can be modified. The modified file can then be imported into Matrox Central Manager to update the settings of multiple devices simultaneously. Certain conditions must be met to ensure the modified file remains compatible with the **Update settings** function in Matrox Central Manager.

The Excel workbook consists of a [main sheet](#) that contains device settings and [secondary sheets](#) that contain array data for some settings.

## Modifying the main sheet (Device settings)

---

The **Device settings** sheet contains all device data. Do not rename this sheet.

### Worksheet structure

Each row in the Device settings sheet represents a device, and the columns contain the device's settings.

#### Rows

- The first two rows contain metadata that describes how each column's value is interpreted when the file is imported into Matrox Central Manager. Do not delete these rows.
  - Row 1 contains a description of the setting.
  - Row 2 is the data type of the setting.
- Row 3 is the header row.
- Starting at row 4, each row represents one device.
- New rows can be [added](#).

#### Columns

- Column A must contain the device's serial number exactly as it appears in Matrox Central Manager.
- Column B must contain the firmware version installed on the device.
- Subsequent columns can be reordered as each one contains a key that identifies the setting path.
- Do not add columns to the worksheet.

## Editing values in the main sheet

In the **Device settings** sheet, enter values according to the following table. The type indicated in row 2 defines the values to enter in each cell.

Category	Type (row 2)	Description
<b>Primitive value</b>	string, integer, number, boolean	For a primitive value (i.e., plain text, whole number, floating-point number, or TRUE/FALSE), type the <b>new value</b> . For string-type settings, type "" to clear the setting. For other types, enter <b>null</b> (case-sensitive) to clear it.
<b>Array of primitive values</b>	array<string>, array<integer>, array<number>	For an array of primitive values, enter the values as a <b>semicolon separated list</b> (e.g., 1920; 1080; 720). Type [] to clear the setting.
<b>Array of objects</b>	sheet-ref	For an array of objects (e.g., a list of audio channels, each with multiple sub-properties), the cell holds a <b>comma-separated list of index values</b> (e.g., 0, 1). These values reference rows in a dedicated <a href="#">secondary sheet</a> . Click the hyperlink in row 3, the header row, to go to the secondary sheet. Type <b>null</b> (case-sensitive) to clear the setting.

### Leaving settings unchanged

- If information for a cell will remain unchanged, it can be left blank.
- If information will remain unchanged for an entire column, it can be removed from the sheet.

Settings linked to blank cells or missing columns will retain their current value on the device when the file is imported into Matrox Central Manager.

## Adding a device

Devices can be added to the main sheet.

To add a new device:

1. In the row below the last device in the list, enter the device's serial number in column A.
2. In column B, enter the firmware version currently installed on the device. Follow the format used for the column.
3. Enter the [settings values](#) for the item in the remaining columns to complete the row.

Once a device is added to the worksheet, the file can be used to [update the device settings](#) in Matrox Central Manager.

## Modifying secondary sheets (array data)

Complex array settings (arrays of objects) are stored in dedicated sheets that are created automatically when settings are exported. Each such setting has its own sheet.

Each sheet corresponds to a sheet-ref-type setting in the main Device settings sheet.

### Worksheet structure

Secondary sheets follow a structure similar to the main sheet.

#### Rows

- The first three rows contain metadata that describes how each column's value is interpreted during import. Do not delete these rows.
  - Row 1 contains a description of the setting.
  - Row 2 is the data type of the setting.
  - Row 3 contains the index property key for the column.
- Starting at row 4, each row represents one array element.
- New rows can be [added](#).

#### Columns

- Column A contains a unique integer index, starting at **0**.
  - The value in the **Index** column can be changed to any value, as long as it is unique within the sheet.
- Subsequent columns hold the properties of the array element.
- Do not add columns to the worksheet.

### Worksheet example

As an example, the data in a secondary sheet for an audio channel might look like this:

Index	Channel.Name	Channel.Level
0	Main	80
1	Backup	60

### Row deduplication

During export, identical array items across devices share the same row in the secondary sheet, with the same index value. Deduplication is based on the complete set of property values. Property order does not affect deduplication.

If two devices share the same audio channel configuration, they reference the same index in the secondary sheet. Edit the row once to apply the change to both devices.

## Adding an array item

Array items can be added to a secondary sheet.

To create a new array item:

1. In the row below the last item in the array list, enter the next integer in column A. This value is the index for the new array item.
2. Enter the properties for the item in the remaining columns to complete the row.

After an item is added to the array, it can be [assigned to a device](#).

To continue the previous example, the secondary sheet might now look like this:

Index	Channel.Name	Channel.Level
0	Main	80
1	Backup	60
2	Monitor	50

## Entering values in the main sheet

In the corresponding [sheet-ref cell](#) in the main Device settings sheet, enter the **comma-separated index values** of the items in the device's array, in ascending order.

For example:

serial_number	Audio.Channels
SN-001	0, 2
SN-002	0, 1, 2

- SN-001 has two audio channels, the items at index 0 and 2.
- SN-002 has three audio channels, the items at index 0, 1, and 2.

## Importing the modified Excel file

Once the Excel file has been modified and saved:

1. In Matrox Central Manager, select the devices whose settings were exported to the file, or a subset of those devices.
2. Follow the steps to [update settings from an Excel file](#). Be sure to select the modified Excel file.

The application merges the values in the Excel file with the current settings of each device. If the file does not contain a value for a setting (e.g., blank cell, missing column), the device keeps its current setting.