

Technical Note: Advantech 6060 I/O module and TVN 23 (S/P)

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Introduction

This technical note describes how the Advantech ADAM 6060 I/O module is used with the TruVision NVR 23 (S/P) recorders.

The Advantech ADAM 6060 I/O module is an ethernet I/O module.

Aritech is not selling this I/O module. The I/O module can be bought from Advantech or its local distributors.

Configuring the IP address of the I/O module

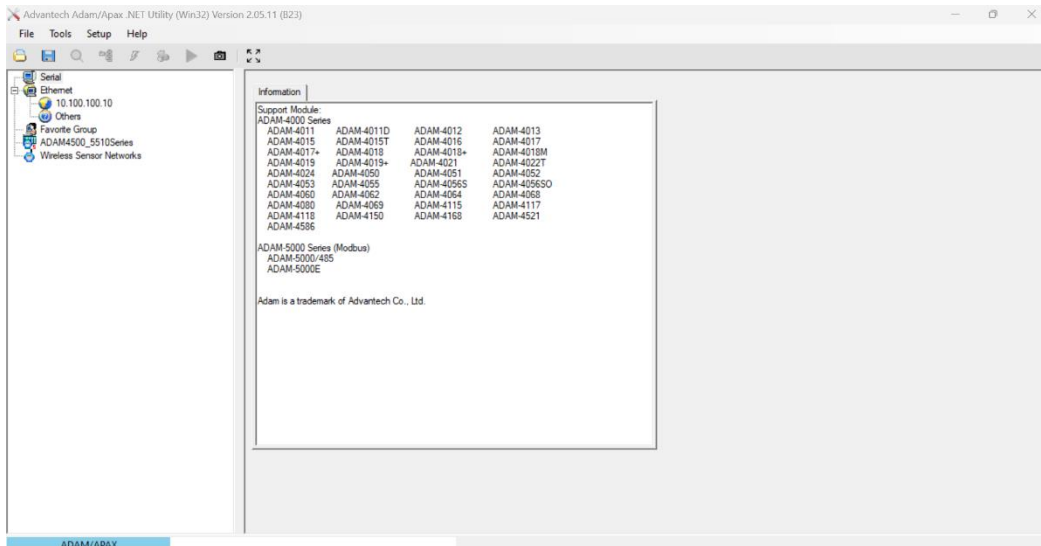
The IP address of the module needs to be configured with a configuration tool from Advantech.

This tool needs to be downloaded from the Advantech website.

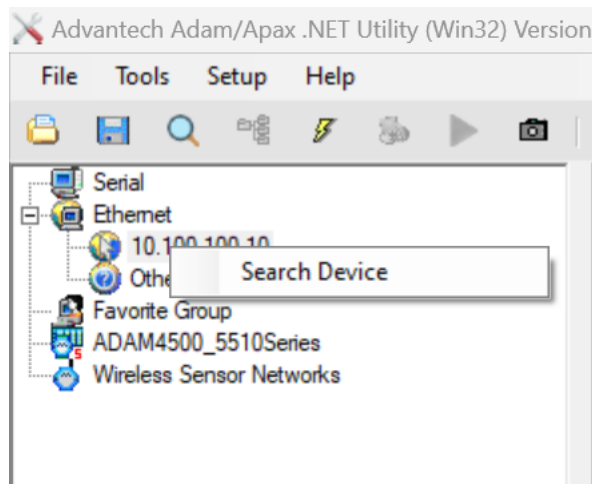
Link: https://downloadt.advantech.com/download/downloads.aspx?File_Id=1-202EXH4

To set up the IP address of the module:

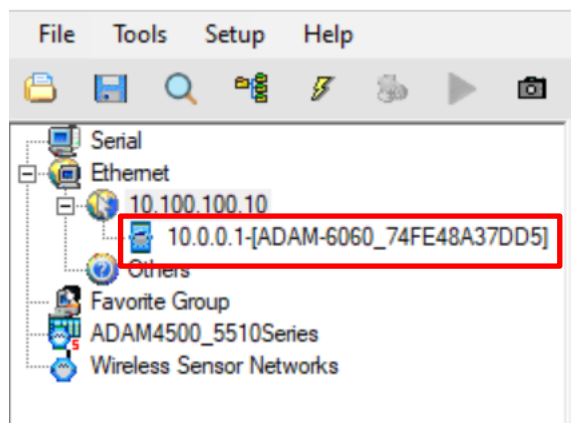
1. Install the tool on a PC.
2. Power up the ADAM 6060 module and connect it to same LAN network as the PC.
3. Start up the tool. The tool is able to discover the module on the LAN network.



In the tree structure, you see the IP address of the PC under **Ethernet**. Right-click to start the automatic module discovery.



4. If the module is found, it will appear in the module tree under the PC address.



The default IP address of the module is 10.0.0.1.

5. On the right side you see the module's details.

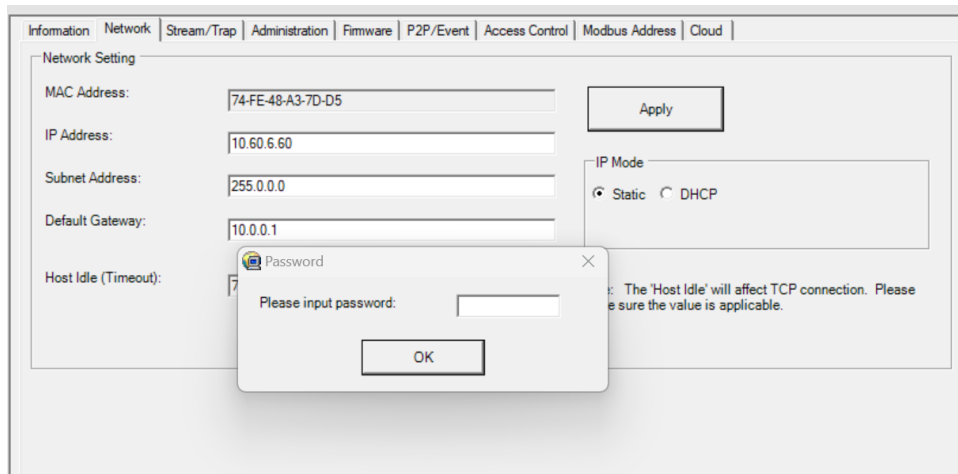
The screenshot shows the 'Administration' tab of the ADAM module configuration interface. The 'Firmware Version' is 6.15 B01. The 'Device Name' is ADAM-6060_74FE48A37DD5. The 'Device Description' field is empty. A QR code labeled 'ADAM Web Page' is visible. Below, a table shows the module details:

| Slot | Module | Description |
|------|--------|---------------------------------|
| 6060 | | ADAM-6060 6 DI / 6 relay module |

The screenshot shows the 'Network Setting' page. The MAC Address is 74-FE-48-A3-7D-D5. The IP Address is 10.0.0.1. The Subnet Address is 255.0.0.0. The Default Gateway is 0.0.0.0. The Host Idle (Timeout) is 720 seconds. The IP Mode is set to Static. A note states: 'Note: The 'Host Idle' will affect TCP connection. Please make sure the value is applicable.'

Click **Network** to set-up the IP address. Set the module to an IP address in the same IP range as the recorder.

After you click **Apply**, you have to enter the password for the module as confirmation. The password is 00000000 (8 times 0).

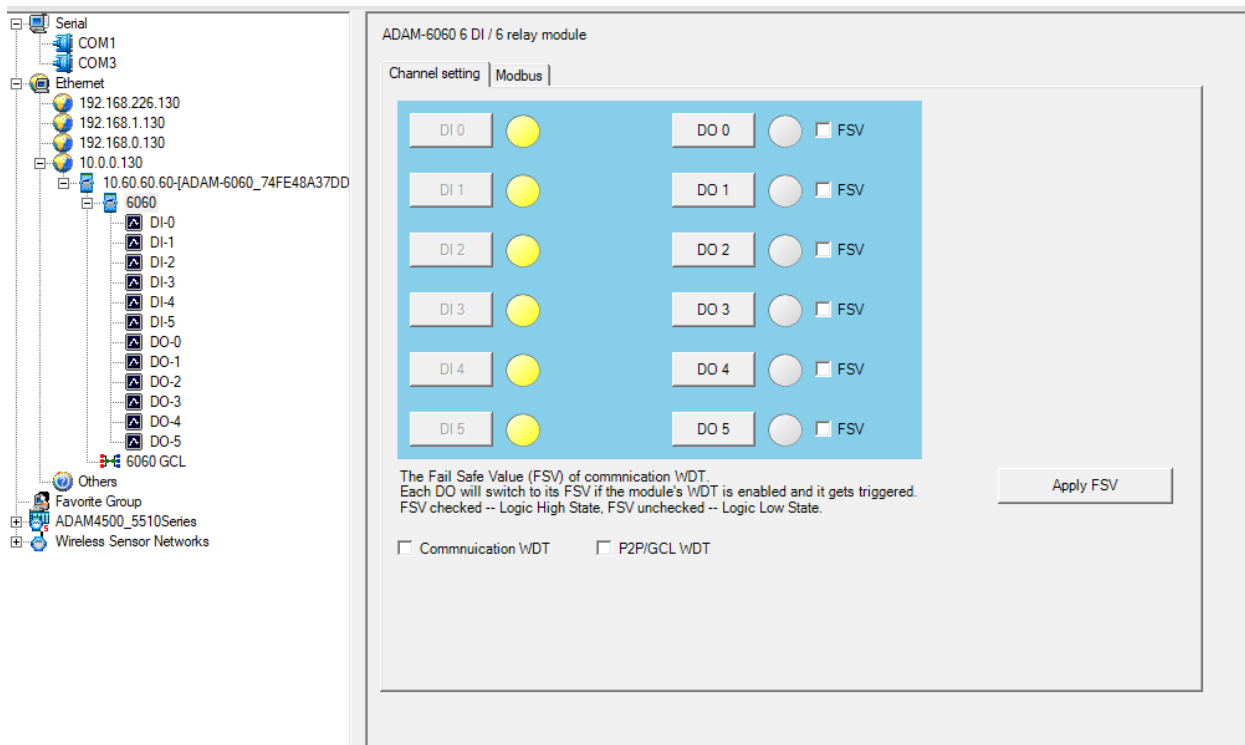


In the above example, the module has an IP address of 10.60.60.60.

Optional: configure the behavior of the inputs/outputs

The module has 6 inputs and 6 relay outputs. The module is by default ready to be used with the recorder. But if you need to change the setup of inputs or outputs you can do that via the configuration tool.

Click on the module type in the device tree. You see all the inputs (DI) and outputs (DO) of the module.



Click on an input (DI) or output (DO) in the list to change the behavior.

For more details: see the Advantech ADAM 6060 user manual.

Add the ADAM module to the TVN 23 (S/P)

The TVN 23 (S/P) recorder needs firmware version **1.02.002 build241029** to work with the ADAM model.

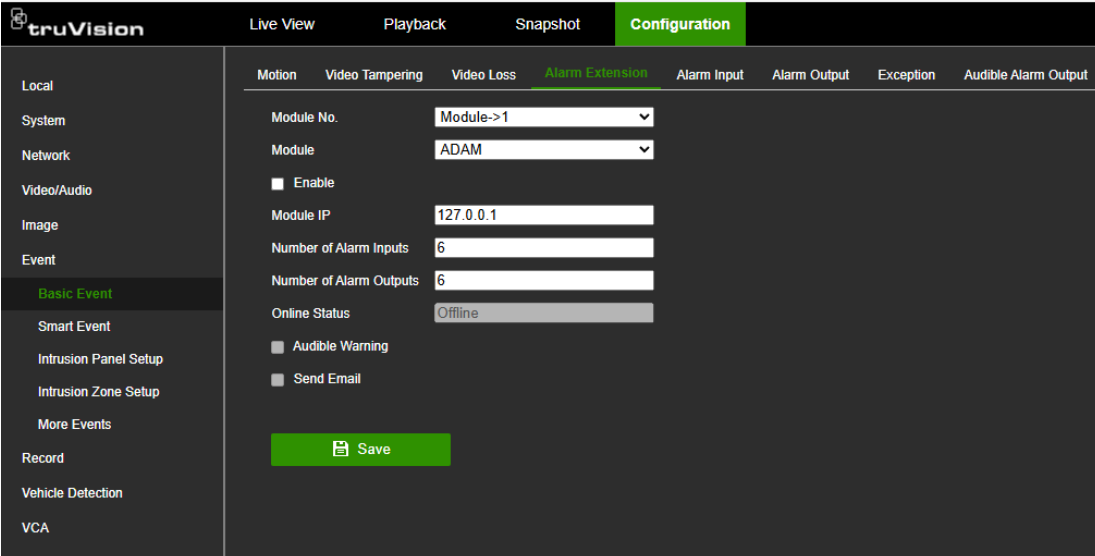
If needed, visit our website firesecurityproducts.com to download this firmware.

The module can be setup via the TVN23 webpage and OSD menu.

To add the ADAM module to the recorder (via the webpage):

1. Go to **Configuration > Event > Basic Event > Alarm Extension**.

You can add maximum 8 ADAM 6060 modules to a TVN23 (S/P).



The screenshot shows the truVision configuration interface. The top navigation bar includes 'Live View', 'Playback', 'Snapshot', and 'Configuration'. The left sidebar lists various configuration categories: Local, System, Network, Video/Audio, Image, Event, Smart Event, Intrusion Panel Setup, Intrusion Zone Setup, More Events, Record, Vehicle Detection, and VCA. The 'Event' category is expanded to show 'Basic Event', which is further expanded to 'Alarm Extension'. The 'Alarm Extension' sub-menu is active, displaying the following settings:

- Module No.: Module->1 (dropdown)
- Module: ADAM (dropdown)
- Enable
- Module IP: 127.0.0.1 (text input)
- Number of Alarm Inputs: 6 (text input)
- Number of Alarm Outputs: 6 (text input)
- Online Status: Offline (dropdown)
- Audible Warning
- Send Email

A green 'Save' button is located at the bottom of the configuration panel.

Select the desired module number and **enable** it.

2. Enter the IP address of the module (in this example: 10.60.60.60) and set the number of inputs and outputs to 6.

| Motion | Video Tampering | Video Loss | Alarm Extension | Alarm Input | Alarm Output | Exception | Audible Alarm Output |
|--|-----------------|------------|-----------------|-------------|--------------|-----------|----------------------|
| Module No. | Module->1 | | | | | | |
| Module | ADAM | | | | | | |
| <input checked="" type="checkbox"/> Enable | | | | | | | |
| Module IP | 10.60.60.60 | | | | | | |
| Number of Alarm Inputs | 6 | | | | | | |
| Number of Alarm Outputs | 6 | | | | | | |
| Online Status | Online | | | | | | |
| <input type="checkbox"/> Audible Warning | | | | | | | |
| <input type="checkbox"/> Send Email | | | | | | | |
| Save | | | | | | | |

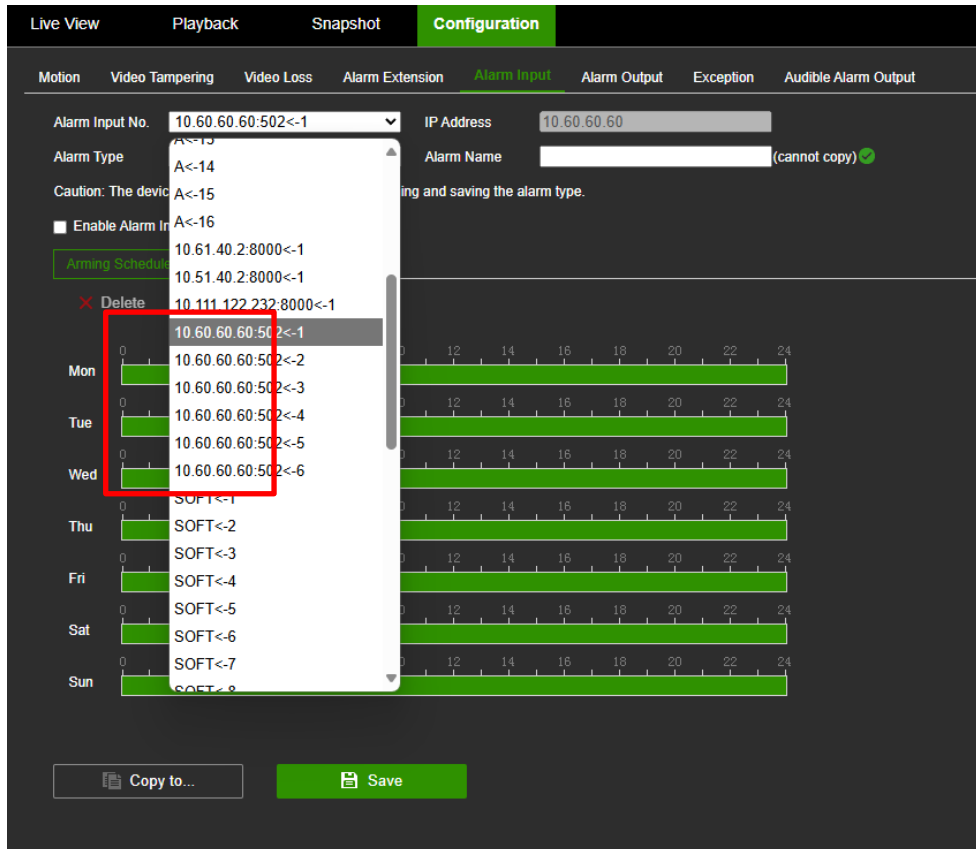
3. Save the settings and see that module status is **Online**. (you might need to refresh the page)
4. Select the actions that will be executed when the module is offline: audible warning and/or send email. Click **Save** again.

Use the alarm inputs of the module with the recorder

You can use the alarm inputs of the module as extra alarm inputs for the recorder, with the same features as an alarm input of the recorder.

To setup the alarm input (via webpage):

1. Go to **Configuration > Event > Basic Event > Alarm Input**.
2. In the dropdown list for the alarm input number, you see the module IP address, followed by input number 1 to 6. Select the alarm input that you want to configure.



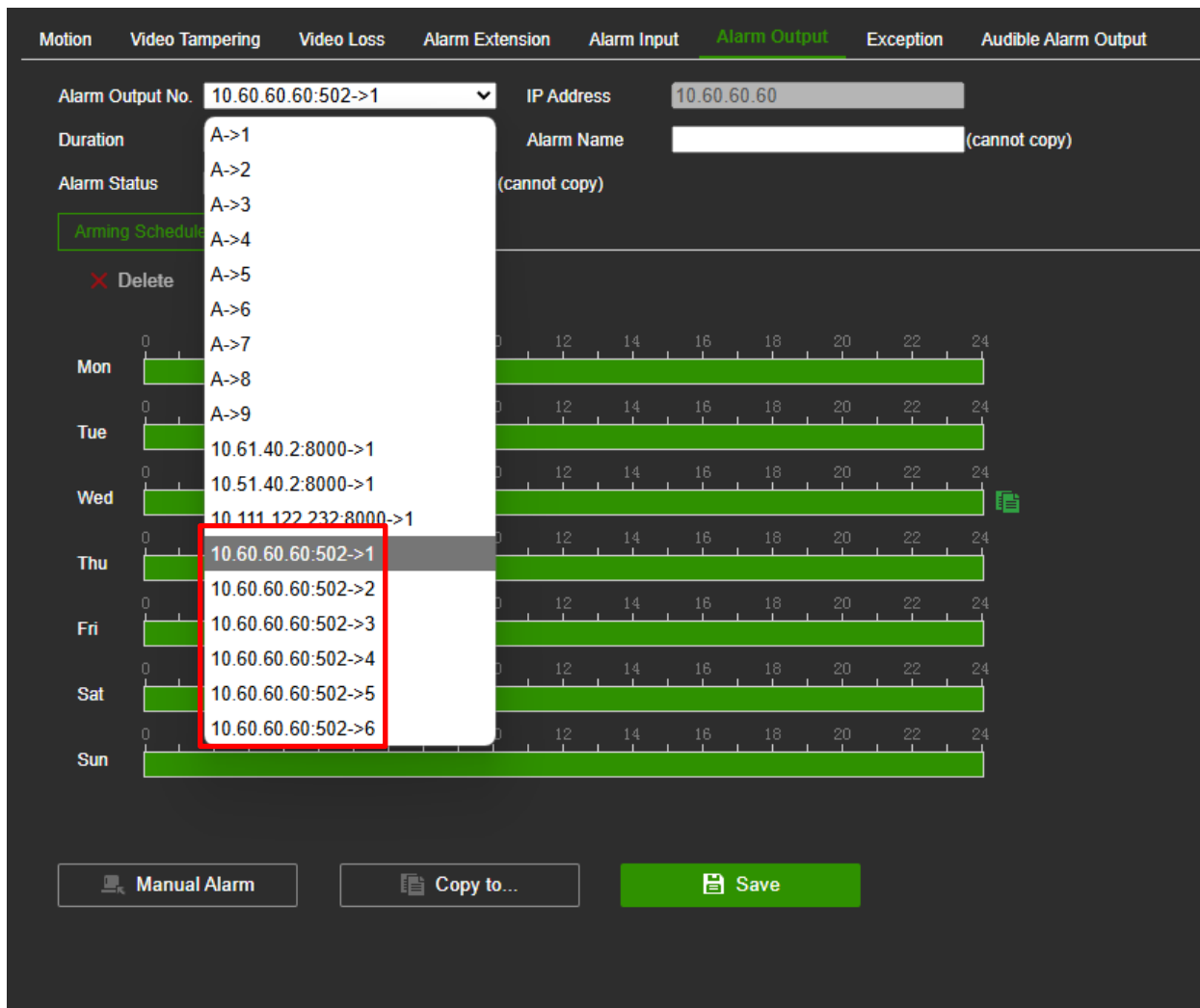
3. Configure the alarm input and setup the arming schedule and actions.
4. Click **Save**.

Use the alarm outputs of the module with the recorder

The six alarm outputs of the ADAM module can be controlled via the recorder.

To setup the alarm output (via the webpage):

1. Go to **Configuration > Event > Basic Event > Alarm Output**.
2. In the dropdown list for the alarm output number, you see the module IP address, followed by output number 1 to 6. Select the alarm output that you want to configure.



3. Setup the duration and arming schedule and save the settings.

Technical details ADAM 6060 module

Basic information:

- Power: the module is designed to work with a 24 VDC power supply, but the module accepts voltages between +10 and 30VDC.
- Ethernet connection: 10/100 Mbps
- Default IP address: 10.0.0.1
- Default password: 00000000 (8x 0)

Link datasheet: [https://advdownload.advantech.com/productfile/PIS/ADAM-6060/file/ADAM-60_62_63_DS\(042624\)20240426182525.pdf](https://advdownload.advantech.com/productfile/PIS/ADAM-6060/file/ADAM-60_62_63_DS(042624)20240426182525.pdf)

Link user manual: https://advdownload.advantech.com/productfile/Downloadfile4/1-2B6FKTG/ADAM-6000_User_Manual_Ed.12-FINAL.pdf