



TVN 23 (S/P) Quick Start Guide

EN TruVision TVN 23 (S/P) Quick Start Guide

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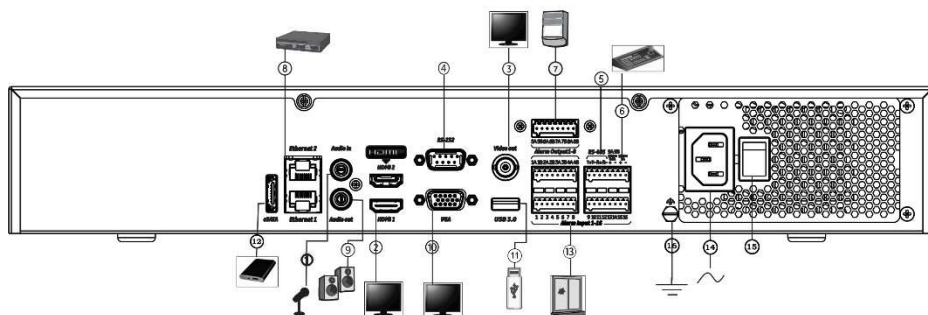
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Contact information EMEA: firesecurityproducts.com
Australian/New Zealand: <https://aritech.com.au>

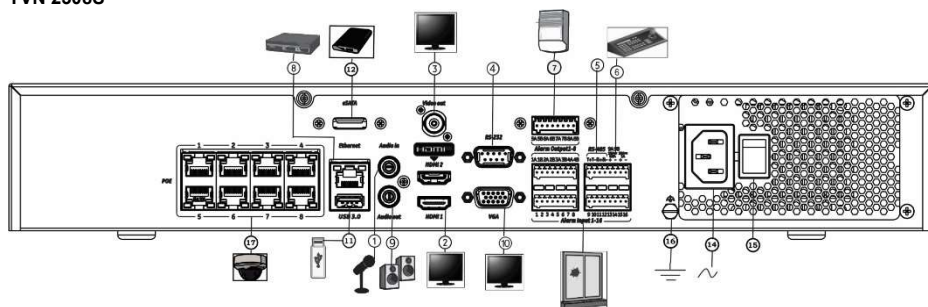
TVN 23 (S/P) Quick Start Guide

Figure 1: Back panel connections (Example: TVN 23 and TVN 2308S shown)

TVN 23



TVN 2308S



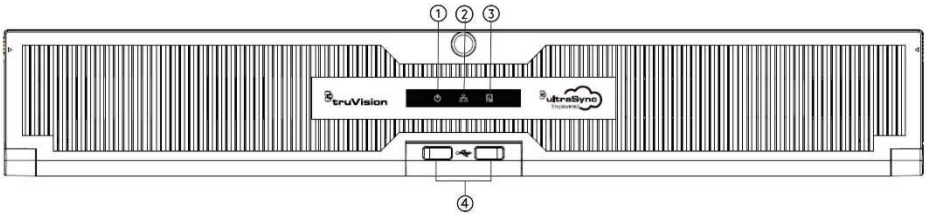
1. Connect one audio input to RCA connectors.
2. Connect to an HDTV. The HDMI connection supports both digital audio and video.
3. Connect one CCTV monitor (BNC-type connectors)
4. Connect to a RS-232 device.
5. RS-485 port not used.
6. Connect to a keypad via RS-485 (not used).
7. Alarm relay outputs.
8. Connect to a network (RJ45).
9. Connect to speakers for audio output.
10. Connect to a VGA monitor.

11. Universal Serial Bus (USB). Connect to an additional device such as a USB mouse, CD/DVD burner, or USB HDD.
12. Connect to an optional eSATA device such as HDD, CD/DVD-R
13. Connect up to 16 alarm inputs (depending on model).
14. Connect to a power cord.
15. Power button
16. Connect to ground.
17. 8/16 PoE ports (depending on model).

Default IP address - 192.168.1.82

Download the latest recorder firmware and TruVision Navigator software from www.firesecurityproducts.com

Figure 2: Front panel



Name	Description
1. Power	A steady green light indicates the recorder is working correctly. Red indicates a fault.
2. Network	White light blinks fast when data is being transferred via the network
3. HDD	The white LED blinks when data is being read from or written to the HDD.
4. USB interfaces	Universal Serial Bus (USB) ports for additional devices such as a USB mouse or USB Hard Disk Drive (HDD).

Figure 3: Live view quick access toolbar



1. Multiview display: Select a multiview display format

2. Stream type: Select main stream or substream

3. Start bidirectional audio

4. Text insertion on/off

5. QR code: Scan the code to facilitate adding the recorder to a mobile app

6. Stop/start all cameras in live view

7. Capture: Capture a snapshot of a video image

8. Start/stop all recording: Start/stop local recording for all cameras
9. Digital zoom: Enter digital zoom mode

10. Previous screen: Display the previous camera/screen.

11. Next screen: Display the next camera/screen.

12. Mute: Enable/disable audio output

13. Full screen: Display the video tiles in full screen mode. Click ESC to return to normal mode.

14. Alarm output

Package contents

The TruVision NVR 23 (S/P) (model TVN 23 (S/P)) is shipped with the following items:

- AC power cord
- Recorder
- Hard drives
- USB mouse
- Rack mounts
- *TruVision NVR 23 (S/P) Quick Start Guide*

You can download the software and the following manuals from our web site:

- *TruVision NVR 23 (S/P) Quick Start Guide*
- *TruVision NVR 23 (S/P) User Manual*
- *TruVision NVR 23 (S/P) Recorder Operator Guide*

Installation environment

Refer to the user manual for detailed information, but observe these important requirements:

- Place the unit in a secure location.
- Ensure that the unit is in a well-ventilated area.
- Do not expose the unit to rain or moisture.

Quick install

Recommended steps for setting up the recorder:

1. Connect all the devices required to the back panel of the recorder. See Figure 1 on page 1.

PoE recorder models (S models):

Connect the IP cameras to the recorder's PoE ports. Connect the recorder to the network.

Non-PoE recorder models:

Connect the recorder to the network.

2. Connect a monitor to the VGA or HDMI output.
3. Connect the mouse to the USB port in the front panel.

4. Connect the power cord to the unit and turn on the power.
5. Set up the unit with the required settings using the setup Wizard.

First time use

When using a recorder with PoE ports, connect the IP cameras to the PoE ports for adding them automatically to the recorder. When using a non-PoE recorder, you must search for all cameras. The configuration can then be customized as required.

The recorder has an express installation wizard on the local monitor that lets you easily configure basic recorder settings when first used. The wizard is not available on the webpage.

By default, the setup wizard will start once the recorder has loaded. The wizard walks you through some of the more important settings of your recorder. Select the preferred language for the system and then set the administrator password. There is no default password provided.

The wizard will then guide you through the menus to set the time and date, network configuration, HDD management, and recording configuration.

When all the required changes have been entered, click **Finish** to exit the wizard. The recorder is now ready to use. Recording starts automatically.

Operating the recorder

There are several ways to control the unit:

- Mouse control
- Web browser control
- Software (TruVision Navigator, TVRMobile)

USB mouse

The USB mouse provided with the recorder operates all the functions of the recorder. The mouse lets you navigate and make changes to settings in the user interface.

Connect the mouse to the recorder by plugging the mouse USB connector into the USB port on the back or front panel. The mouse is immediately operational, and the pointer should appear.

Web browser control

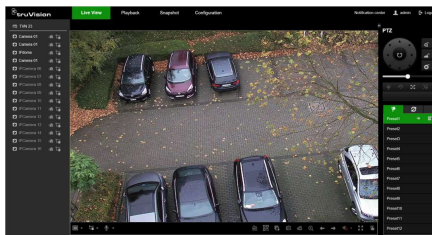
The recorder's web browser lets you view, record, and play back videos as well as manage all aspects of the recorder from any PC with internet access. The browser's easy-to-use controls give you quick access to all recorder functions. See Figure 4 below.

To access the unit, open a web browser and enter the IP address assigned to the recorder as a web address. In the logon screen, enter the user ID and password.

Install the recorder web plug-in to see live camera images (Internet Explorer only).

For other browsers (Google Chrome, Mozilla Firefox, Apple Safari, you can install a plugin to have similar functionality as with Internet Explorer. Refer to the user manual for more information.

Figure 4: Web browser interface (live view shown)



The default values for recorder network settings are:

- DHCP: Disabled by default.
- IP address - 192.168.1.82
- Subnet mask - 255.255.255.0
- Gateway address - 192.168.1.1
- Server Port: 8000
- HTTP Port: 80
- RTSP port: 554

Note: The following ports need to be forwarded in the router to connect properly: Server port and RTSP port.

OSD control

The recorder's OSD does not provide full access to all the functionalities available. Refer to the user manual for more detailed information.

Adding IP cameras

This section describes how to add IP cameras to the recorder.

The process depends on the recorder type (with/without PoE ports), camera status (activated/inactivated), and the method used for adding the cameras (via OSD menu or via the webpage).

Using the recorder's PoE ports (for S models only)

To add an IP camera via the PoE ports:

- **Camera is not yet activated:**
 1. Set up the camera password in the recorder in web mode (see the section "Manage camera passwords" in the user manual for more information).
 2. Connect the IP camera to one of the free PoE ports at the back of the recorder.
 3. The recorder assigns an IP address (192.168.254.x) to the camera and will automatically activate the camera using the password set up in the recorder. This process will take a couple of minutes.
 4. The camera automatically connects to the recorder. The recorder starts recording video as soon as the camera has been successfully added.
- **Camera is already activated, has a LAN IP address, and has the same password as the recorder:**
 1. Connect the IP camera to one of the free PoE ports at the back of the recorder.
 2. The recorder assigns an IP address (192.168.254.x) to the camera and will come online. This process will take a couple of minutes.

3. The camera automatically connects to the recorder. The recorder starts recording video as soon as the camera has been successfully added.

Note: If adding cameras to the recorder that have a different password than the camera password in the recorder, select the **Sync.IPC Password** function and click **Save**.

Using the LAN network

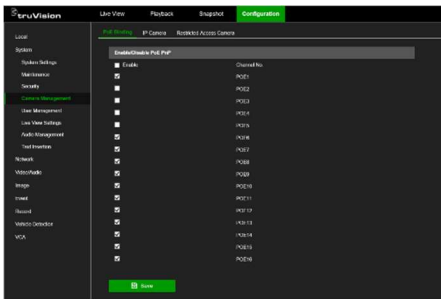
This method can be used for all recorder models.

For recorders with PoE ports: make sure that one or more of the PoE ports on the recorder is disabled so that cameras that are on the LAN can be added to the recorder. You can do this via the OSD or via the webpage.

Via the webpage:

To see which cameras are connected to a PoE port, click **Configuration > System > Camera Management > PoE Binding**.

The list of cameras appears showing which are connected to a PoE port. Click **Save** to save any changes made.



Via the OSD menu:

To see which cameras are connected to a PoE port, click **Configuration > Camera > Camera > PoE Binding**. Click **Apply** to save any changes made.

• Camera is not yet activated:

Note: If a camera is not activated, its default IP address is 192.168.1.70.

The camera can only be activated successfully in web mode (described below) if the recorder's IP address is within the

same network segment of the default IP address of the camera.

When the recorder has an IP address in another network range, you must activate the IP camera first via the TruVision Device Manager or follow the process in OSD mode.

To add an IP camera on the LAN network in web mode:

1. Click **Configuration > System > Camera Management > IP Camera**.
2. Click **Quick Add** to find the cameras on the LAN. Select the desired camera and click **OK**.
3. Select the camera from the list and click **Activation**. You will be asked to enter a camera password, or you can select to use the default IP camera password that you added in the recorder and click **OK** (see the section "Manage camera passwords" in the user manual for more information).
4. The camera is activated and comes online. Click **Refresh** to refresh the webpage to see the camera status change from offline to online.
5. Add another camera by following steps 2 to 4.

To add an IP camera on the LAN in OSD mode:

1. Click **Configuration > Camera > Camera > IP Channel**.
2. Click **Online Device List** to display the list of cameras in the LAN.
3. Select the camera that you want to add and press **Activate All**.
4. The recorder asks you to enter a new password, or you can select to use the camera password that is stored in the recorder.
The camera is activated.
5. Add the camera using the default IP address (192.168.1.70) to the recorder.
Recommended: press **Edit IP** and change the IP address of the camera before it is added.
6. Add the camera to the recorder via the **+Add** button.

- **Camera is already activated:**

To add an IP camera on the LAN network in web mode:

1. Make sure that the cameras are on the same network segment as the recorder. If needed, use the TruVision Device Manager to change the network settings of the cameras.
2. Click **Configuration > System > Camera Management > IP Camera**.
3. Click **Quick Add** to find the cameras on the LAN. Select the desired camera(s) and click **OK**.
4. Click **Refresh** to refresh the webpage. The camera(s) will come online when the camera password is identical to the camera password defined in the recorder.

Note: If adding cameras to the recorder that have a different password than the camera password in the recorder, select the **Sync.IPC Password** function and click **Save**.

To add an IP camera on the LAN in OSD mode:

1. Make sure that the cameras are on the same network segment as the recorder. If needed, use the TruVision Device Manager to change the network settings of the cameras.
2. Click **Configuration > Camera > Camera > IP Channel**.
3. Click **Online Device List** to display the list of cameras in the LAN.
4. Select the camera(s) that you want to add and press **+ Add** or **+Add All** to add the camera(s) to the recorder.

Note: If adding cameras to the recorder that have a different password than the camera password in the recorder, select the **Sync.IPC Password** function and click **Save**.

Live view mode

Note: Ensure that you have installed the recorder web plug-in to see live camera images (Internet Explorer only).

Live mode is the normal operating mode of the unit where you watch live pictures from the cameras. There are several shortcut buttons at the bottom of the screen to access frequently used functions. See Figure 3 on page 2 for a description of the functions available.

Configuring the recorder

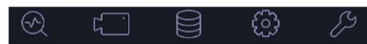
You can configure the recorder parameters from the Configuration button in the menu toolbar. When selected, it displays a submenu panel that lets you edit a group of settings. Most menus are available only to system administrators.

Both the OSD and web browser let you configure all the functionalities of the recorder.

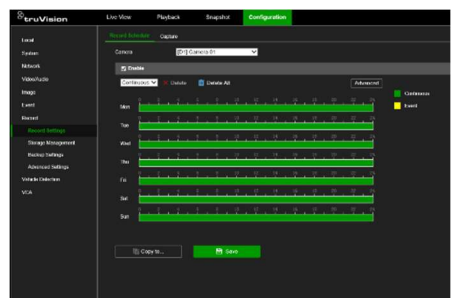
Refer to the recorder user manual for detailed information on configuring the unit.

To access the configuration menus from live view:

1. Click the Configuration button via the web, or use one of the icons



via the OSD, in the menu toolbar at the top of the screen. Image below shows an example via the web.



2. Select the desired configuration submenu and tab in the screen that appears.

Description of the configuration submenus (via the web):

Local: Settings related to the web browser application such as live view parameters, and where to store snapshots and video exports.

System: Settings related to viewing system information, time, RTSP/web authentication, restore default parameters, update firmware, search system logs, restricting access, camera password management, camera management, and user management.

Network: Settings related to network related aspects of the recorder including general network settings, certificate management, port forwarding, email setup, and pairing with UltraSync.

Video/Audio: Settings related to video recording, dual-VCA, and V-stream encoding.

Image: Settings related to image quality, camera OSD, and privacy masking.

Event: Settings related to motion detection, video tampering, video loss, alarm input/output, exception notification, face detection, cross line detection, intrusion detection, and intrusion panel connection. (Extra functions may be displayed depending on the camera model).

Record: Settings related to recording schedules, hard drive management, holiday periods, and overwriting recordings.

Vehicle Detection: Settings related to the use of license plate cameras.

VCA: Video content analysis settings related to behavior analysis and face capture. Functions available depend on whether they are supported by the camera model.

Specifications

Power Supply

TVN 23/23S/23P	100 to 240 VAC
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Power consumption (without HDD and PoE off):

16-channel/32 channel with 4 HDD slots	≤ 15 W
TVN 23	

8-channel/16-channel with PoE & 4 HDD slots	≤ 15 W
TVN 23 S	

16-channel/32-channel/64-channel with 8 HDD slots	≤ 50 W
TVN 23 P	

Operating temperature:	-10 to +55 °C
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Relative humidity:	10 to 90%
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Dimensions (W x H x D):

TVN 23 (S)	445 × 75 × 400 mm
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TVN 23 P	445 × 93 × 465 mm
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Weight (without HDD):

TVN 23 (S)	≤ 5 kg
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TVN 23 P	≤ 10 kg
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Contact information

EMEA: firesecurityproducts.com

Australian/New Zealand:
<https://aritech.com.au>

Product documentation

Please consult the following QR code to retrieve the electronic version of the product documentation. The manuals are available in several languages.

