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Technical note: Sony cameras on DIVAR network

Using Sony ONVIF cameras on DIVAR network recorders

Contents:

- **Requirements**
- **Installation**
- **Basic DIVAR network configuration**
- **Configuring VMD & streaming on Sony cameras**
- **DIVAR App, configuring streaming on Sony cameras**



Requirements:

DIVAR Network 2000/3000/5000 Firmware 1.2.1 or later.

Sony IP camera 600 series Firmware V2.8 or later (refer to supported device list at the end of this document).

Windows™ PC (Windows 7 or later). **

SNC-Toolbox software V1.4.4.0 or later. **

DIVAR mobile APP (optional)

Notes:

** Items are required to configure VMD and streaming in the Sony network camera

Installation: (DIVAR network 2000/3000/5000 with PoE)

A USB mouse and a display should be connected to the DIVAR.

Connect the cameras to the DIVAR network and power up the unit.

The cameras receives power from the DIVAR and take about 90 seconds to boot, after the DIVAR unit has powered up.

When the DIVAR has booted, follow the steps in the wizard, see next page.



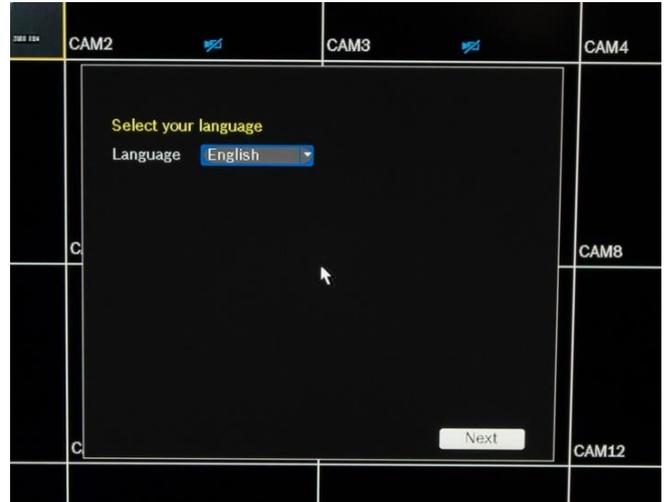


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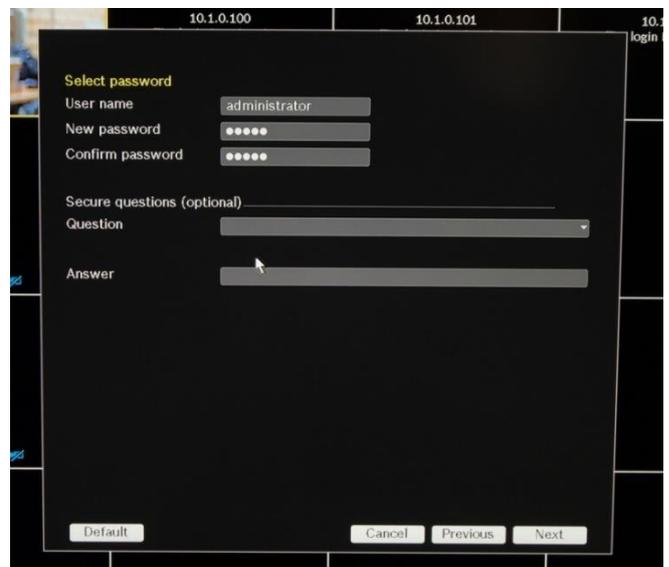
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Set the device language.



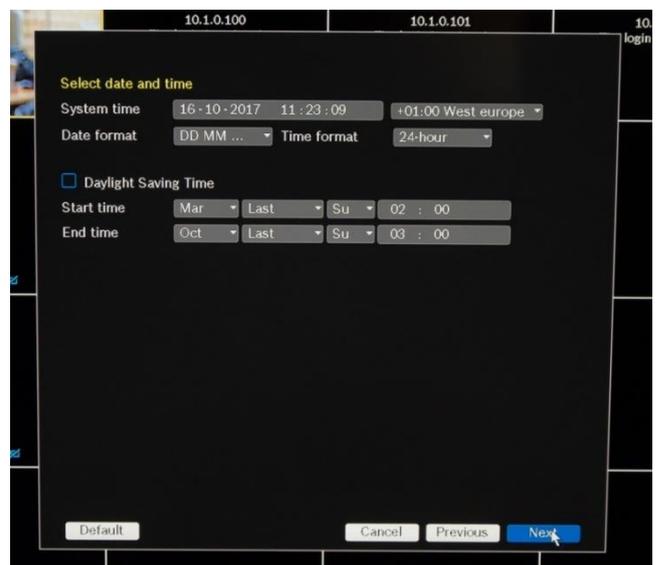
Set the system password.

IMPORTANT: We recommend using a strong password rather than the default, when the system is in normal use.



Set the time and date as required.

Note: Correct date and time is required for some ONVIF devices to communicate correctly.

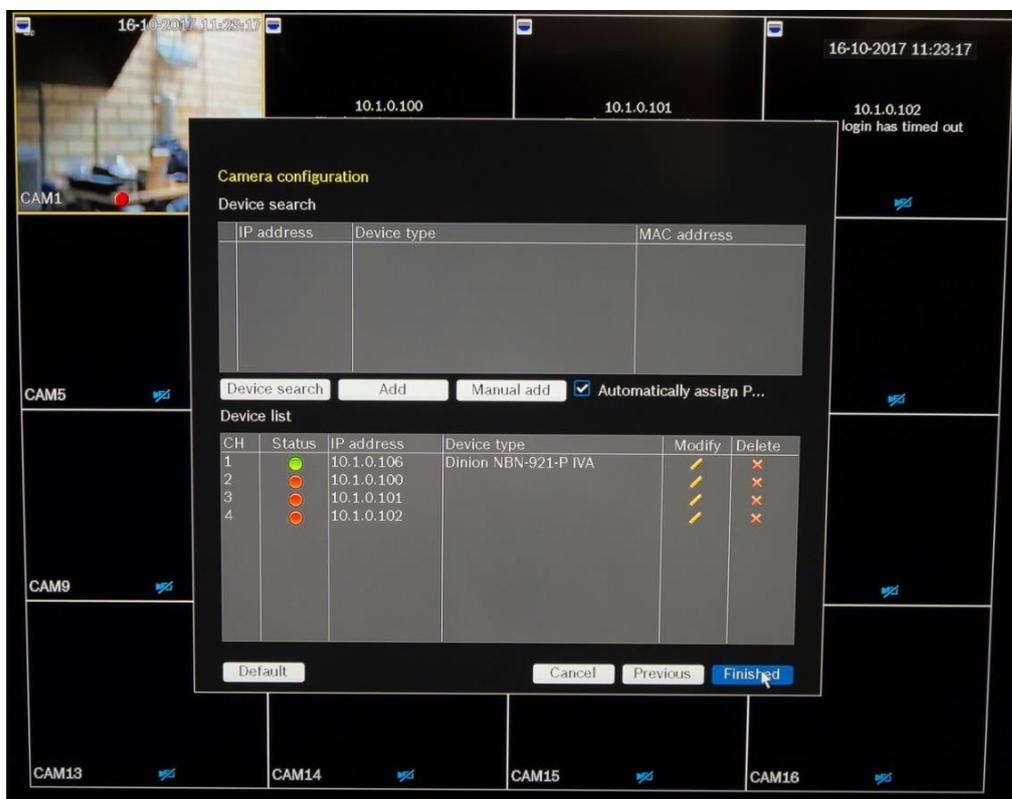


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At the camera configuration page you will see detected devices automatically displayed as shown below.



In this example 3 Sony cameras were connected and one Bosch camera. The Bosch camera was connected automatically, however the Sony cameras were detected but connection has timed out so a red dot is shown in the status information. The devices reporting RED status must be modified to add the correct information. Additional cameras can be added later using the Device search box.

Click on the Modify icon for each of these in turn and edit the login information, change the user name and password to match the camera settings. (default is user name: admin password: admin)

IMPORTANT: We strongly recommend using a strong password rather than the default, when the system is in normal use.

NOTE: Automatic connection of Bosch cameras depends on the firmware version in the camera and the DIVAR unit.



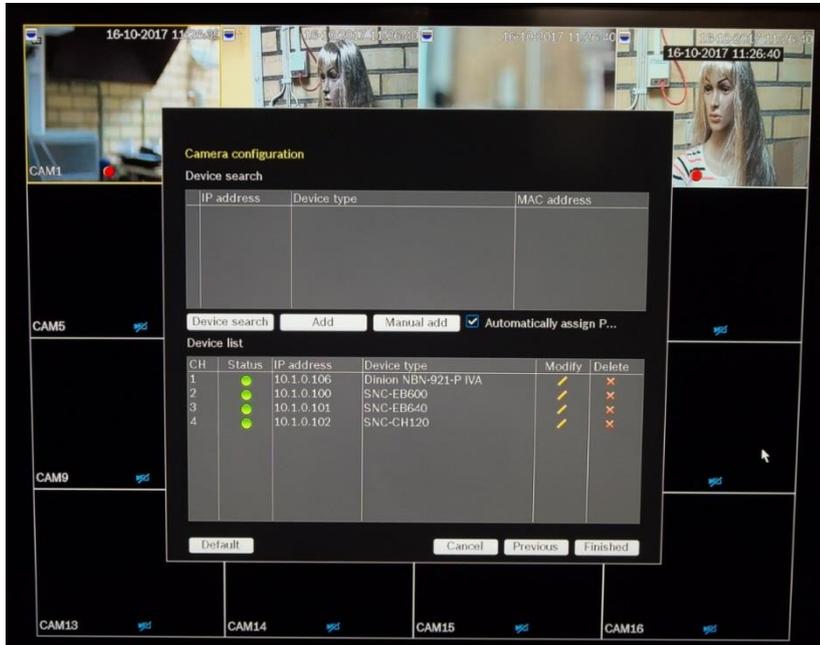


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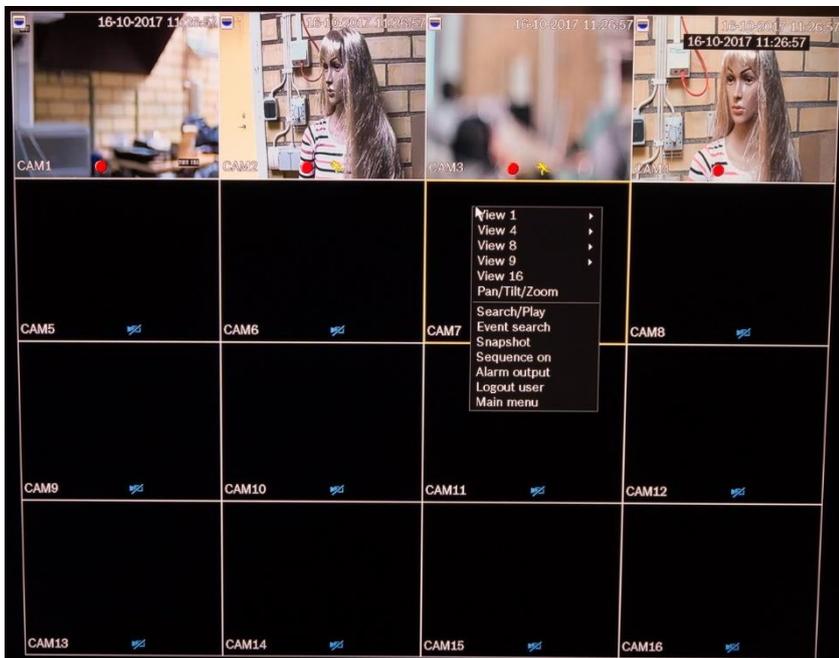
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Below all the status indications are green and you can see live images from all of the cameras. Click 'Finished' to close the wizard.



At this stage all cameras are live streaming and will be recording continuously. The recording schedule and event based recording can be configured. Right click on the mouse to open the menu, as shown below





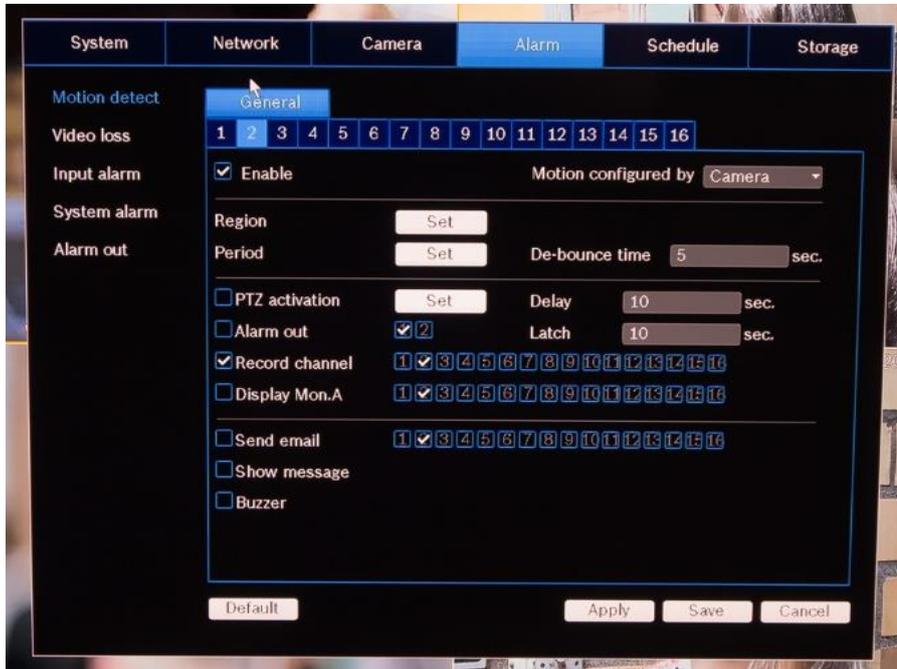
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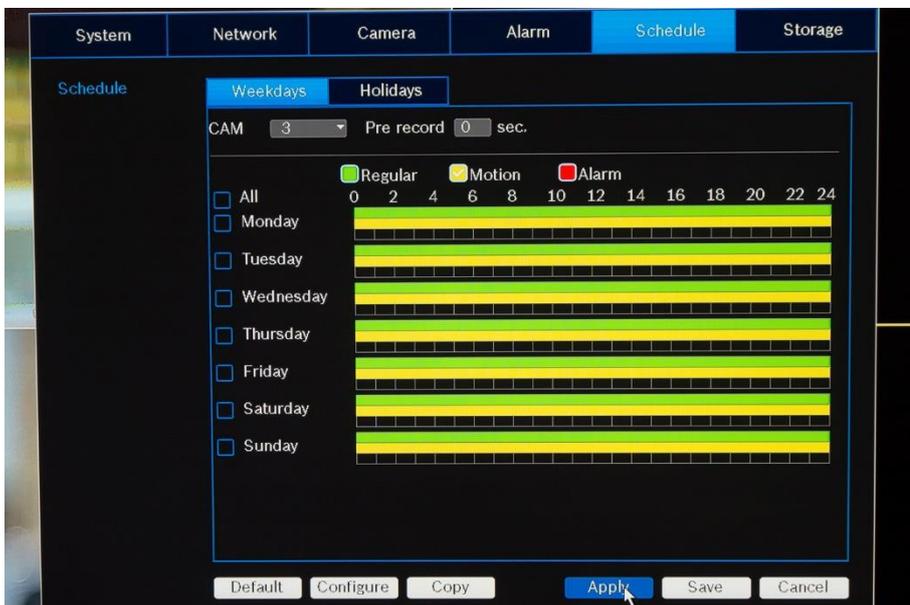
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Select the ALARM tab and Motion detect. Here we can enable motion detection based recording for each camera.

Note: On Sony cameras motion detection must be configured in the camera web page before it will work with the DIVAR, camera configuration is described later in this document.



Select the SCHEDULE tab. Here we can schedule when motion detection based recording is active for each camera.





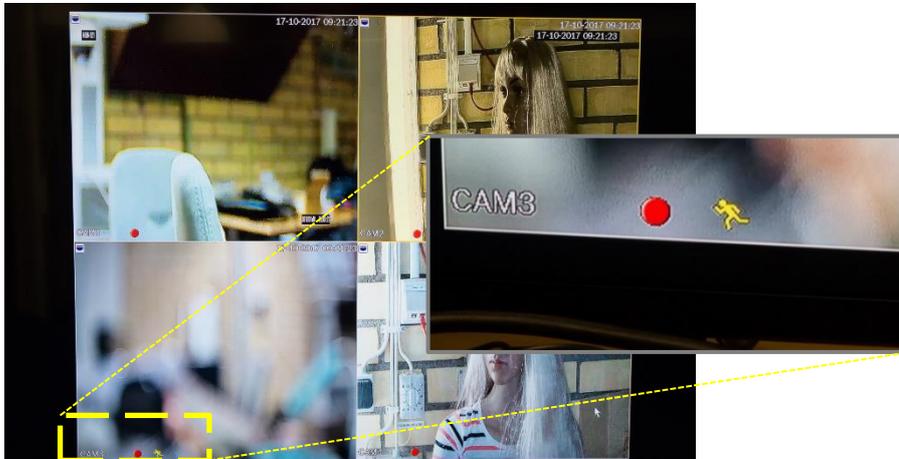
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In the live view screen, the red dot in the image indicates recording. The yellow running person indicates motion detection.

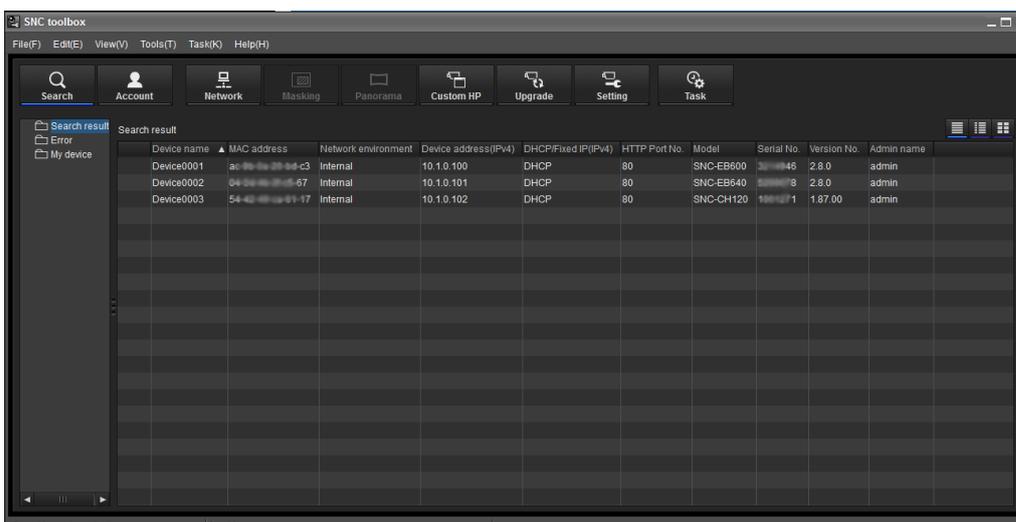


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Configuring VMD & Streaming on Sony Cameras:

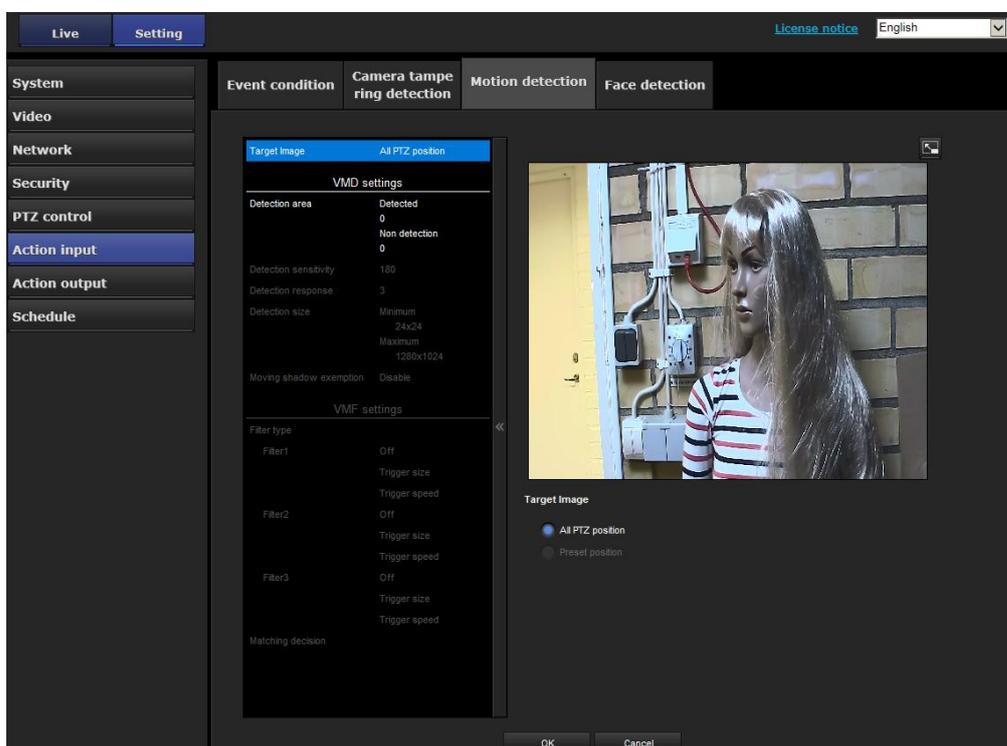
For motion based recording In Sony cameras Video Motion Detection is OFF by default. To enable VMD you must log in to the camera from a Windows™ PC and change the setting in the web browser (Internet Explorer).

Use SNC-Toolbox to find the cameras on the network. This tool can also be used for upgrading firmware and applying settings to groups of cameras.



Open the cameras web page in Internet Explorer.

In the Setting menu, under Action Input, select the Motion detection TAB.





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Configuring VMD on Sony Cameras:

Select Detection area, and add an area to the image, follow the three steps below:

The screenshot shows a camera configuration menu with several tabs: 'Event condition', 'Camera tampering detection', 'Motion detection', and 'Face detection'. The 'Face detection' tab is active. On the left, there are settings for 'VMD settings' and 'VMF settings'. The 'VMD settings' section includes: 'Detection area' (Detected: 1, Non detection: 0), 'Detection sensitivity' (180), 'Detection response' (3), 'Detection size' (Minimum: 24x24, Maximum: 1280x1024), and 'Moving shadow exemption' (Disable). The 'VMF settings' section includes 'Filter type' (Filter1, Filter2, Filter3) and 'Matching decision'. On the right, a video frame shows a woman's face. A yellow box with a red border is drawn around the face, indicating the 'Detection area'. Below the video frame, there are icons for 'Add area', 'Delete area', and 'Undo'. Three yellow callout boxes with purple backgrounds provide instructions: '1) Click add area' points to the 'Add area' icon; '2) Drag the corners to define the area' points to the corners of the yellow box; '3) Click OK to complete' points to the 'OK' button at the bottom of the menu.

Close the setting menu.



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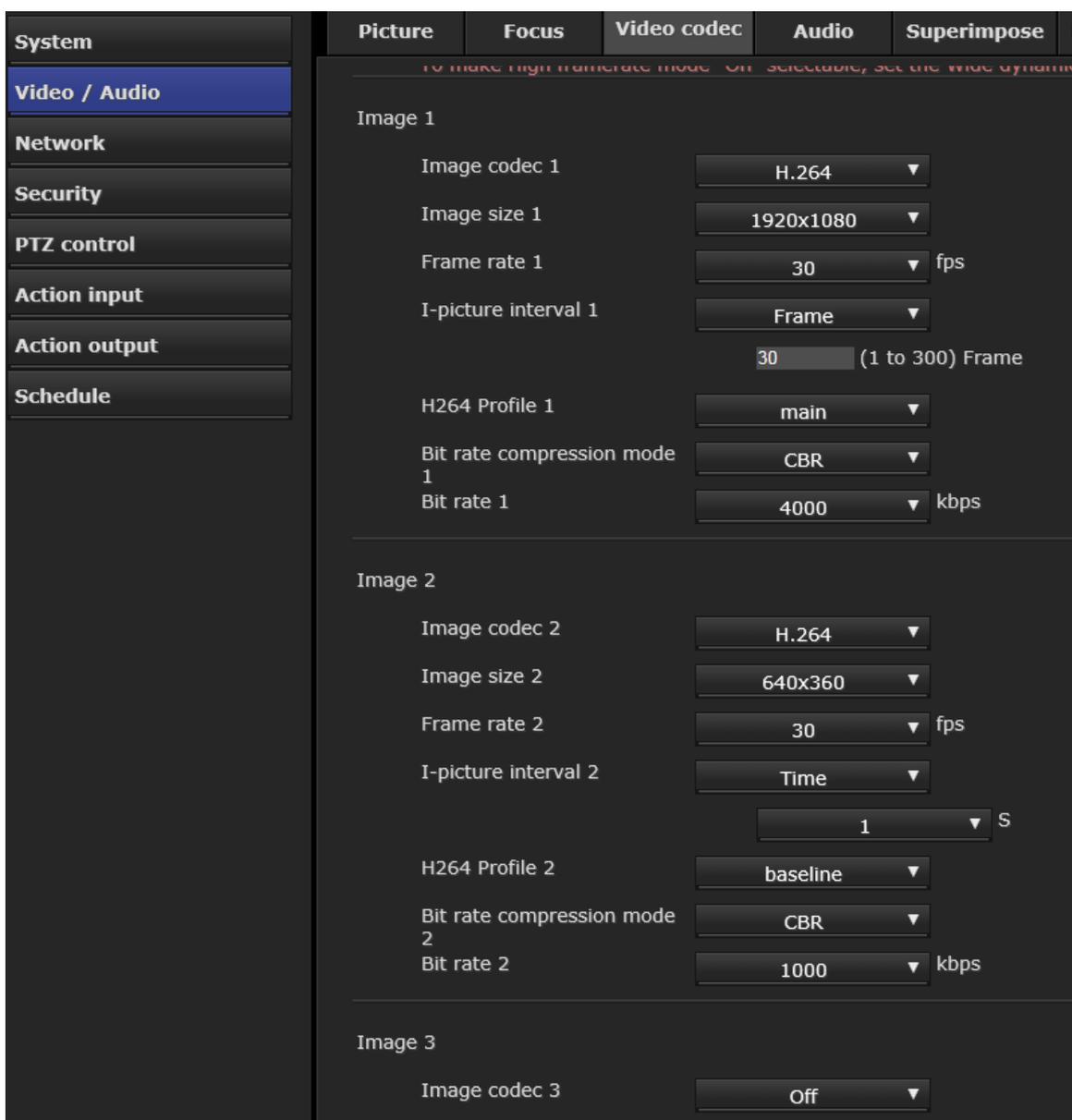
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DIVAR APP - Configuring Streaming on Sony Cameras:

When the DIVAR APP is used with the DIVAR network recorder, a second, lower bit rate stream is used for the APP viewer.

In Sony cameras, only one stream is enabled by default so to use the APP a second stream must be enabled; follow the process below:

- In the camera's setup menu, select Video/Audio and Video Codec.
- Enable Image 2 as shown below. Then press OK. The stream should then be available in the DIVAR APP.





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Supported Models:

Models powered directly by DIVAR network 2000	Firmware
SNC-EB640, SNC-EM641, SNC-VM641, SNC-VB640, SNC-EB642R	V2.8 or later
SNC-EM600, SNC-EB600, SNC-VM600, SNC-VB600, SNC-EM630, SNC-EB630, SNC-VM630, SNC-VB630, SNC-XM632, SNC-XM631	V2.8 or later
SNC-CH120, SNC-CH140, SNC-CH220, SNC-CH240, SNC-DH120, SNC-DH140, SNC-DH220, SNC-DH240, SNC-CH210, SNC-CH110, SNC-DH210, SNC-DH110	V1.87 or later
The following models may require separate power, (PoE, PoE+, HPoE+ or 24V AC)	
SNC-EM642R, SNC-VB642D, SNC-VM642R, SNC-EM632RC, SNC-EB632R, SNC-VM632R, SNC-VB632D	V2.8 or later
SNC-WR632C, SNC-WR630, SNC-WR602C, SNC-WR600	V2.8 or later
SNC-XM637, XM636	V2.8 or later
SNC-VM772R, SNC-VB770	V1.06 or later
SNC-ERxxx and SNC-EPxxx	V1.87 or later

Note: The DIVAR network incl. PoE switch support PoE and PoE + and has below indicated power budget, if this budget is exceeded some of the connected cameras won't power up.

- DIVAR network 2000 8PoE has a power budget of 115W (25,5W max. per port)
- DIVAR network 2000/3000 16PoE has a power budget of 130W (25,5W max. per port)
- DIVAR network 5000 16PoE has a power budget of 200W (25,5W max. per port)

Information is subject to change without notice. For full details please refer to the web site: www.boschsecurity.com/sonyvideosecurity

SNC-Toolbox can be downloaded from the following link: <https://www.sony.co.uk/pro/product/video-security-ip-cameras-fixed/snc-eb640/support/#support>

Information for the Bosch Divar Network series: <https://www.boschsecurity.com/corporate/products-and-services/video-systems/vs-divar/index-2.html>



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Trouble shooting

- Camera does not power up – LEDS don't light on the camera
 - Check the if power budget is exceeded (total 115W for 8PoE network 2000, 130W for network 2000/3000 or 200W for network 5000 model)
 - Check the model is in the supported list
 - Check the cable
- Connected camera not found in the device list
 - Camera can take 2 mins to boot after it is connected to the DIVAR
 - Camera is not set to DHCP (factory default)
 - Camera firmware is not supported. Please update to a version specified in the supported device list
 - DIVAR firmware is not up to date. Please check the firmware version and update if needed.
- Display is 4:3 images HD 16:9 images are squeezed
 - Local display only supports 4:3 1280x1024 max image size
- Motion detection from the camera is not working
 - Refer to the motion detection configuration guide
 - Note VMD status is not sent to the NVR when the VMD configuration menu is open on the camera
- Cannot see the VMD configuration page in the camera web page
 - Make sure to use Internet Explorer 10 or later. Active-X must be enabled. Note installing Active-X plug-in can take a few minutes