

Incorporate video from ANT-1776ZB into Milestone

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Overview

There is an issue with the video from Mux1 not being decoded by Milestone, and the work around is to use the ANT-1776ZB's built virtual video as a valid source for Mux1 and the required sources, in this example, 2 sources, on Mux2 and Mux3.

The guide contains how to setup the ANT-1776ZB and how to incorporate the video into Milestone.

For further help and advice please contact Antrica on:
Email: support@antrica.com
Phone: +44 1628 626098, during UK office hours, and
ask for technical support

Document info

Version	date	author	Comments
0.1	4-Sep-26	David M	Initial draft - 1776ZB (1.1.7.0.98 Aug 12 2026 16:06:01) Milestone 2026 R1

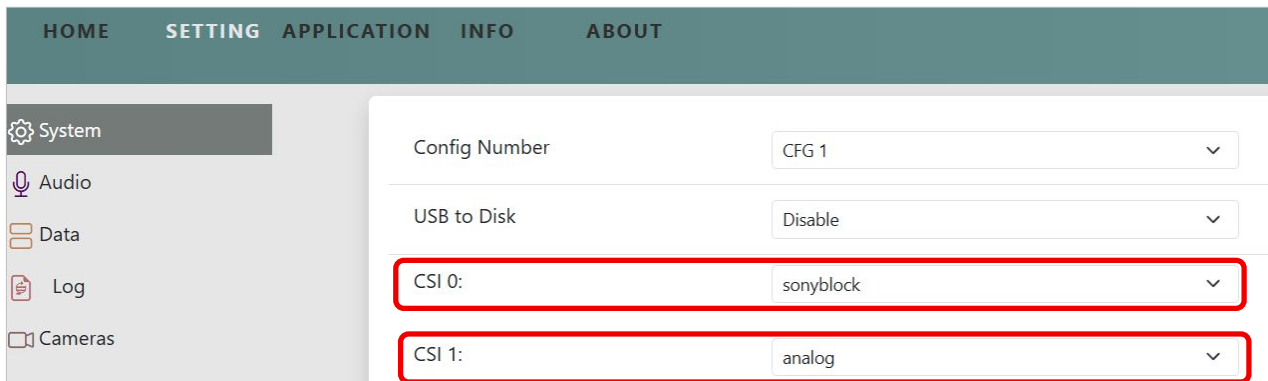
1. ANT-1776ZB Setup

The ANT-1776ZB is installed with LDVC: 1.1.7.0.98 Build Date: Aug 12 2026 : 16:06:01. The update file is "update-V1.1.7.0.98-D12_08_2026-16_16_32.tar.bz2". Dropbox link https://www.dropbox.com/scl/fi/v95dk6nhk9qc34cq6ex0w/update-V1.1.7.0.98-D12_08_2026-16_16_32.tar.bz2?rlkey=lv2h72uj9l4zmx8v3wam7wd48&dl=0

In the example the ANT-1776ZB has the Sony Zoom block and an analogue camera connected.

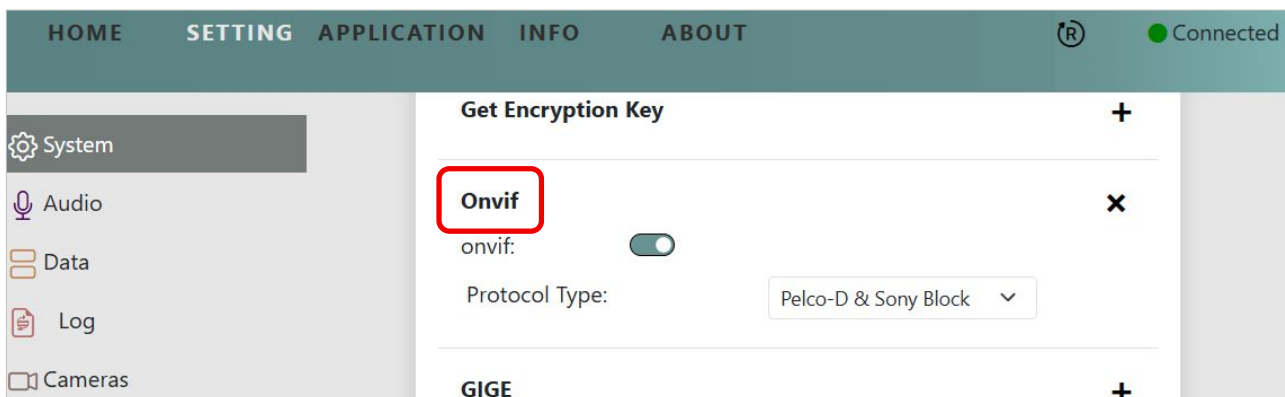
1. Setup the ANT-1776ZB to accept the two cameras, as shown in Figure 1.

Figure 1 : setup CSI sources



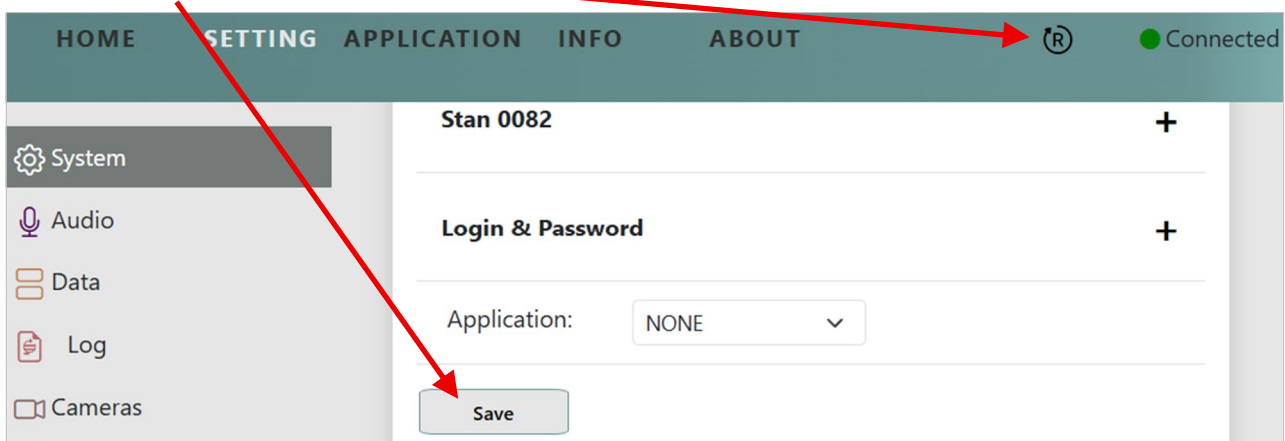
2. Enable ONVIF and selected "Pelco-D & Sony Block", see Figure 2 – this option is for the ANT-1776ZB, if not using a ANT-1776ZB then selected "Pelco-D"

Figure 2 : Enable ONVIF



3. Save and reboot. A reboot is required to enable to ONVIF functionality

Figure 3 : Save and reboot

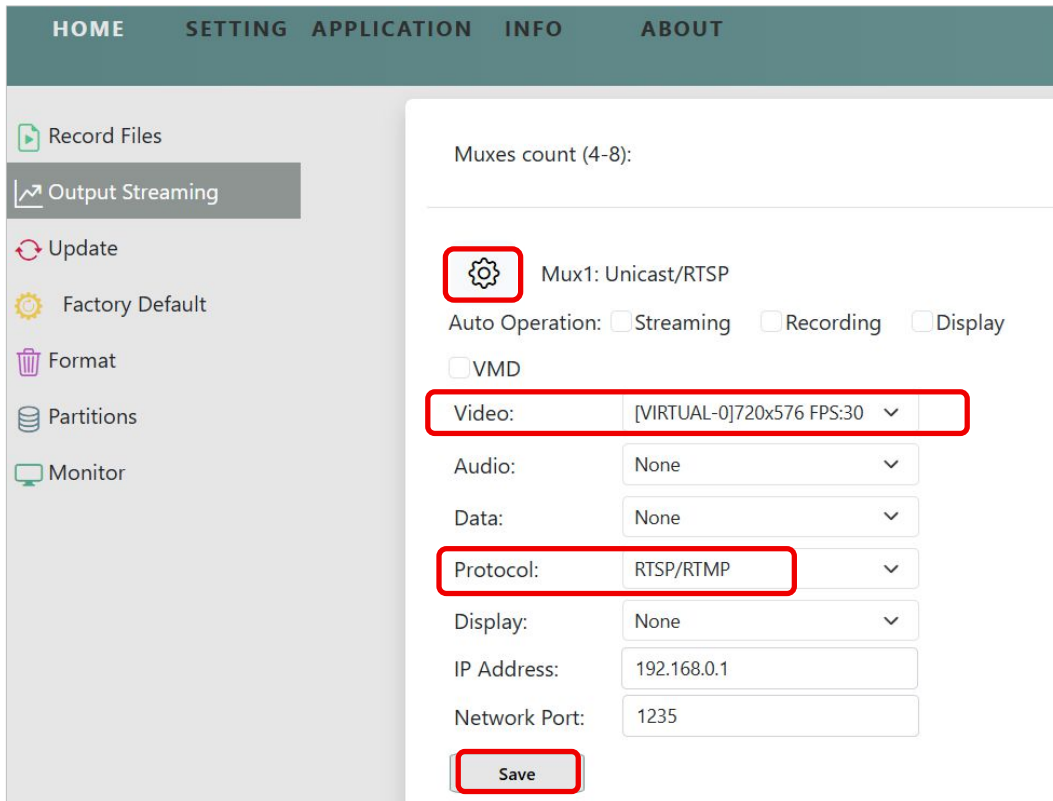


4. Set up MUX's. To access the basic settings, click the "gear" symbol

4.1. Mux1 need to have a valid source, but no video will be displayed with Milestone, as shown in Figure 4. Select

- 4.1.1. the video source "[VIRTUAL-0]720x576 FPS:30"
- 4.1.2. Protocol to be "RTSP/RTMP"
- 4.1.3. Click "Save"

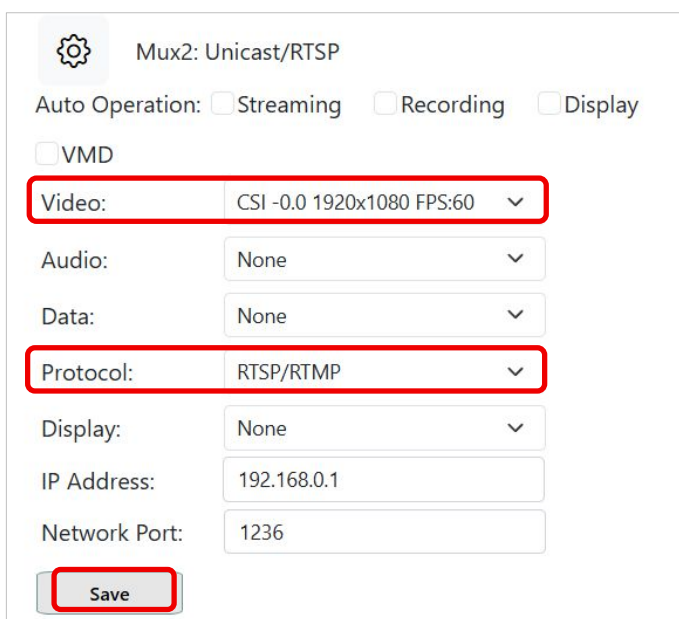
Figure 4 : Mux1 - virtual video



4.2. Mux2 can be the Sony Zoom Block, as shown in Figure 5, setup the following

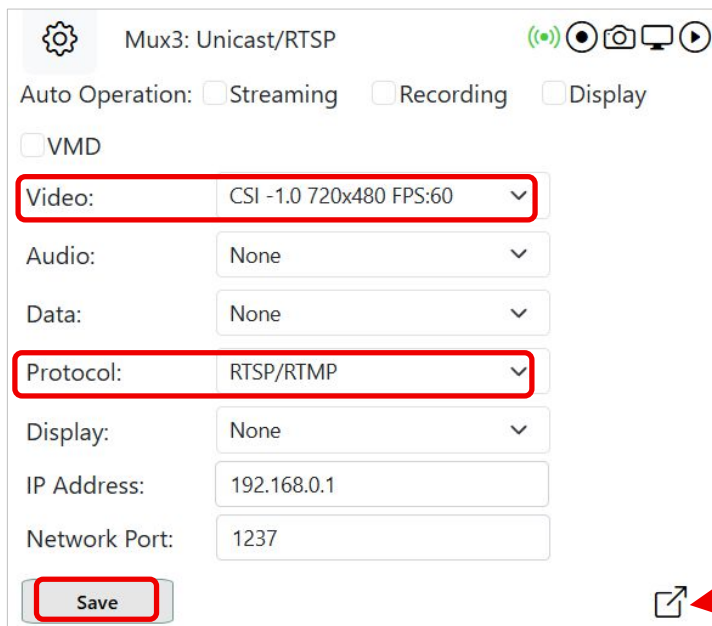
- 4.2.1. Video source "CSI -0.0 1920x1080 FPS:60"
- 4.2.2. Protocol to be "RTSP/RTMP"
- 4.2.3. Click "Save"

Figure 5 : Mux2 - Sony Zoom Block



- 4.3. Mux3 can be the analogue video source, in this example it is NTSC, as shown in Figure 5, setup the following
 - 4.3.1. Video source "CSI -1.0 720x480 FPS:60"
 - 4.3.2. Protocol to be "RTSP/RTMP"
 - 4.3.3. Click "Save"

Figure 6 : Mux3 analogue video

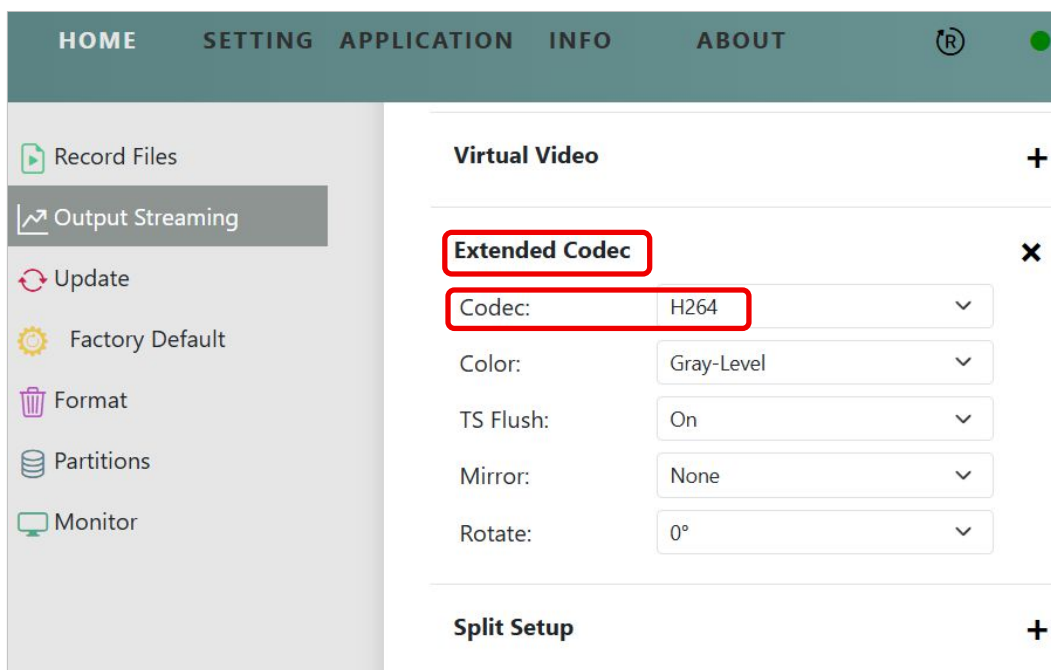


The screenshot shows the 'Mux3: Unicast/RTSP' configuration window. The 'Video' dropdown is set to 'CSI -1.0 720x480 FPS:60' and the 'Protocol' dropdown is set to 'RTSP/RTMP'. Both dropdowns are highlighted with red rectangles. The 'Save' button at the bottom left is also highlighted with a red rectangle. A red arrow points from the 'Save' button to the 'Extended Codec' section in Figure 7.

- 4.4. Change codec to h.264 - In this example on all 3 MUX's the video codec has been change from the default HEVC (H.265) to H.264, this also enables the ONVIF streams to be viewed using ONVIF device Manager (ODM), a copy of which can be found https://downloads.antrica.com/Decoders/ANT-36000/Software/ONVIF_Device_Manager/

- 4.4.1. To change the codec open the extended setting using the  symbol
- 4.4.2. Scroll down to find "Extended Codec" and click the plus symbol  to open that setting, see Figure 7
- 4.4.3. Change Codec to H264
- 4.4.4. Scroll down and click "Save"

Figure 7 : change codec



The screenshot shows the 'Virtual Video' settings window. The 'Extended Codec' section is expanded, and the 'Codec' dropdown is set to 'H264'. The 'Extended Codec' section title is highlighted with a red rectangle. The 'Codec' dropdown is also highlighted with a red rectangle. The 'Save' button is not visible in this screenshot.

5. The ANT-1776ZB is now setup

2. ANT-1776ZB as seen by ODM

The ANT-1776ZB used in this example has had its ONVIF identification details created and manually set, so they appear as:

Manufacturer=field_Manufacturer.31
Model=field_Model.31
FirmwareVersion=field_FirmwareVersion.31
SerialNumber=field_SerialNumber.31
HardwareId=field_HardwareId.31

When viewed in ODM, they appear as shown in Figure 8. This is mentioned as these values are used and displayed by Milestone when detecting the ANT-1776ZB.

Figure 8 : ONVIF details seen by ODM

ONVIF Device Manager v2.2.250

You logged in as **admin** [Log out](#)

Device list <<

.3 [Cancel](#)

IP-Camera

Firmware field_FirmwareVersion.31

Address 192.168.0.30

Location

IP-Camera

Firmware EDIT_field_FirmwareVersion.

Address 192.168.0.32

Location

IP-Camera

[Identification](#)

[Time settings](#)

[Maintenance](#)

[Network settings](#)

[User management](#)

[Certificates](#)

[System log](#)

[Relays](#)

[Web page](#)

[Events](#)

NVT [Refresh](#)

VideoSourceToken_1: Mux1

[Live video](#)

[Video streaming](#)

[Metadata](#)

[PTZ control](#)

Identification

Name

Location

Manufacturer

Model

Hardware

Firmware

Device ID

IP address

MAC address

ONVIF version

URI:

[Apply](#) [Cancel](#)

3. Incorporate ANT-1776ZB video into Milestone

In this example Milestone is 2026 R1.

Figure 9 : Add device / hardware

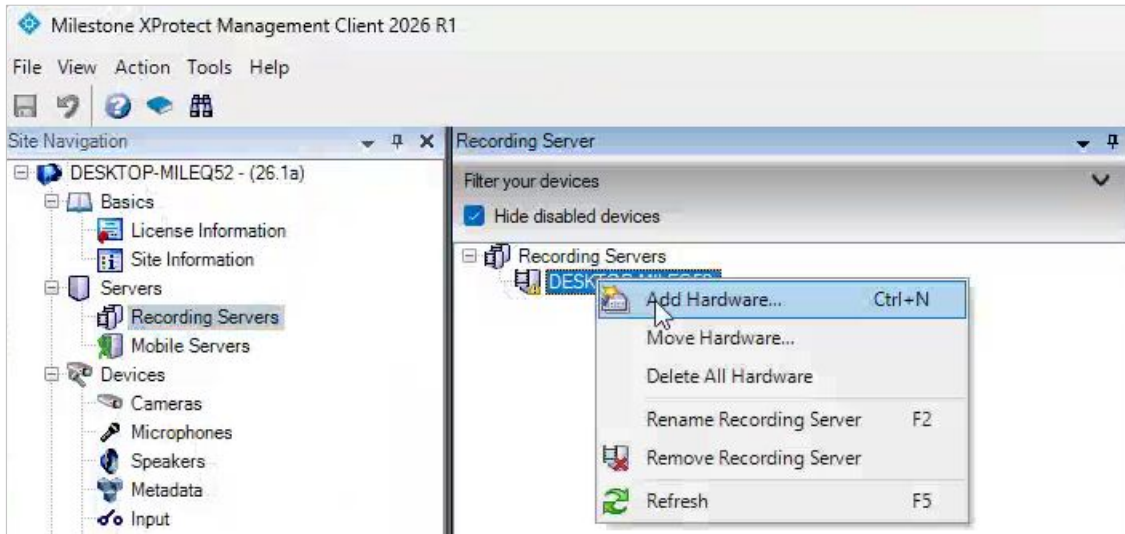
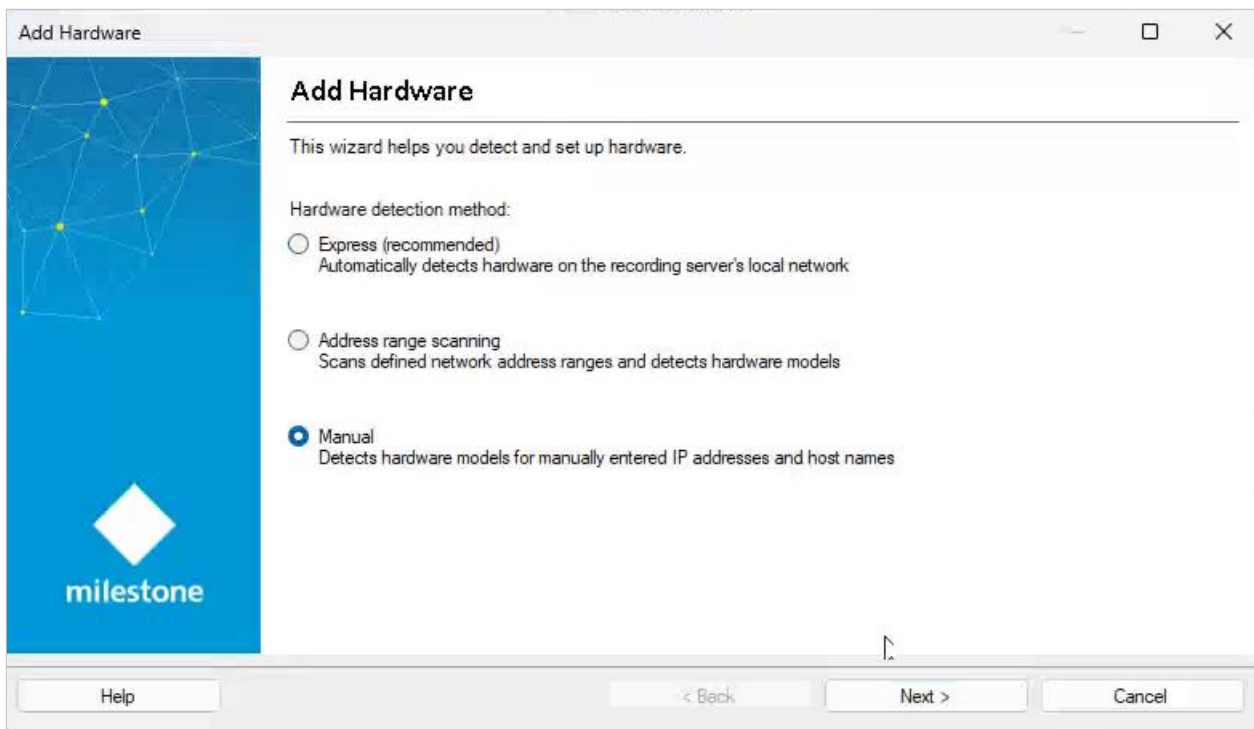


Figure 10 : Detection method - manual



The credentials already in the page are admin / 1234 and admin / admin which are used for other products but maybe, or may not, be required for the ANT-1776ZB.

Figure 11 : Credentials

Include	User name	Password
☒	(Factory default)	
☒	admin	
☒	admin	

Figure 12 : select ONVIF "Driver"

Select which drivers to use when scanning for hardware.
The more drivers selected, the slower the scanning.

- ☐ Arecont
- ☐ AXIS
- ☐ Bosch
- ☐ Canon
- ☐ Hanwha
- ☐ i-PRO/Panasonic
- ☐ Milestone
- ☐ Mobotix
- ☐ Samsung
- ☐ Sony
- ☐ Universal
- ☒ Other
 - ☐ DigitalBarriersTVIDecoder
 - ☐ Halo Smart Sensor
 - ☐ HikVisionGeneric
 - ☒ ONVIF Conformant Device
 - ☐ TruVision
 - ☐ VPS Driver

The ONVIF port for the ANT-1776 range is 8000, not the default port of 80.

Figure 13 : Add ANT-1776ZB details

Address	Port	Use HTTPS	HTTPS port	Hardware model
192.168.0.30	8000	☒	443	(Auto-detect)

Figure 14 : ANT-1776ZB detected

Add	Address	Port	Hardware model	Status
☒	192.168.0.30	8000	field_Manufacturer.31 field_Model.31 (ONVIF)	Success

Figure 15 : detected configuration of ANT-1776ZB

Address	Port	Hardware model	Status
192.168.0.30	8000	field_Manufacturer.31 field_Model.31 (ONVIF)	Success

Figure 16 : detected items on detected hardware

Add Hardware

Hardware and cameras are enabled per default. Manually enable additional devices to be used.
The hardware and its devices will be assigned auto-generated names. Alternatively, enter names manually.

Hardware name template: Default Device name template: Default

☒ Hardware ☒ Camera ☐ Microphone ☐ Speaker ☐ Metadata ☐ Input ☐ Output

Hardware to Add	Enabled	Name
field_Manufacturer.31 field_Model.31 - 192.168.0.30	☐	
Hardware:	☒	field_Manufacturer.31 field_Model.31 (192.168.0.30)
Camera port 1:	☒	field_Manufacturer.31 field_Model.31 (192.168.0.30) - Camera 1
Camera port 2:	☒	field_Manufacturer.31 field_Model.31 (192.168.0.30) - Camera 2
Camera port 3:	☒	field_Manufacturer.31 field_Model.31 (192.168.0.30) - Camera 3
Microphone port 1:	☐	field_Manufacturer.31 field_Model.31 (192.168.0.30) - Microphone 1
Speaker port 1:	☐	field_Manufacturer.31 field_Model.31 (192.168.0.30) - Speaker 1
Metadata port 1:	☐	field_Manufacturer.31 field_Model.31 (192.168.0.30) - Metadata 1

Help < Back Next > Cancel

Figure 17 : Add cameras to groups

Add Hardware

Select a default group for all devices types.
Alternatively, select device group individually for each device.

Default camera group: No group selected...
Default microphone group: No group selected...
Default speaker group: No group selected...
Default metadata group: No group selected...
Default input group: No group selected...
Default output group: No group selected...

Select Group

- Cameras
 - Camera Group 1

OK Cancel

Group
Group
Group
Group

Help < Back Finish Cancel

Figure 18 : All cameras assigned to the same group

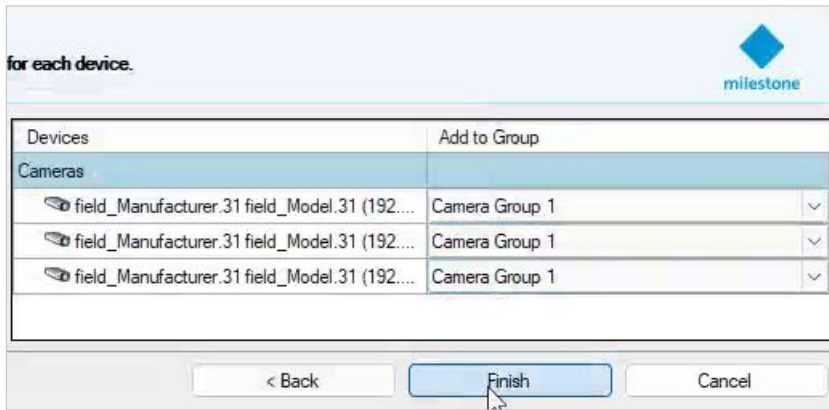


Figure 19 : ANT-1776ZB displayed in Milestone

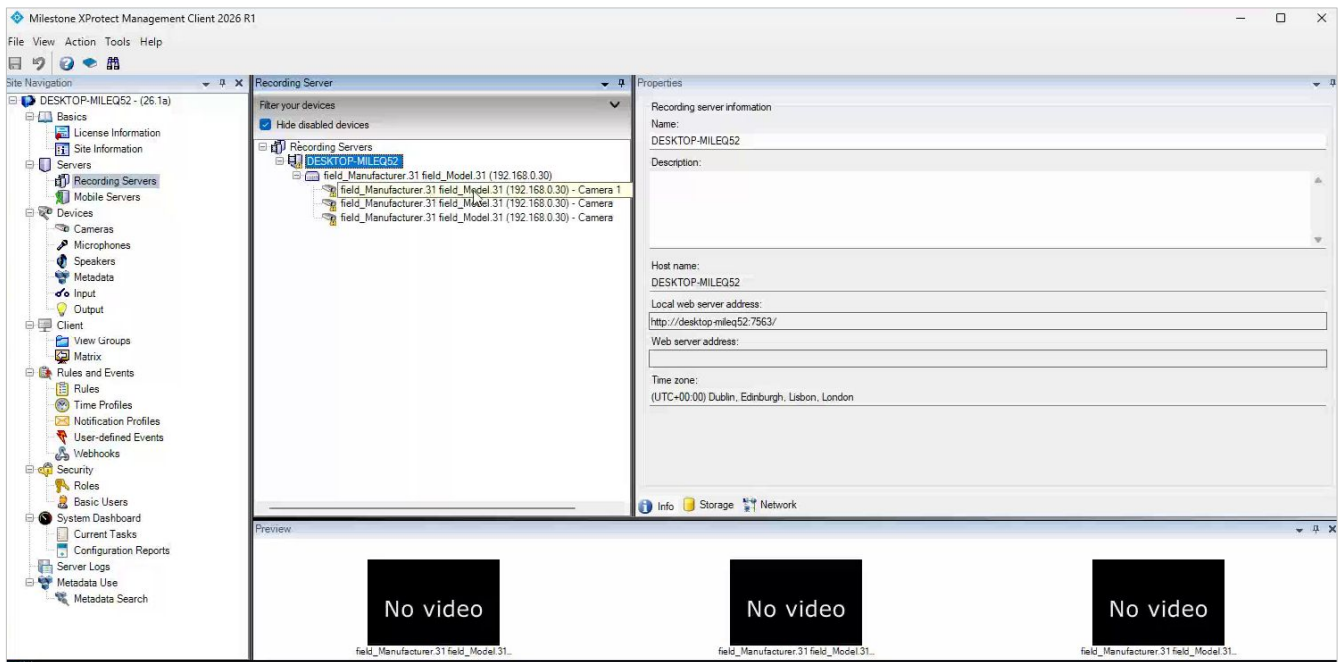
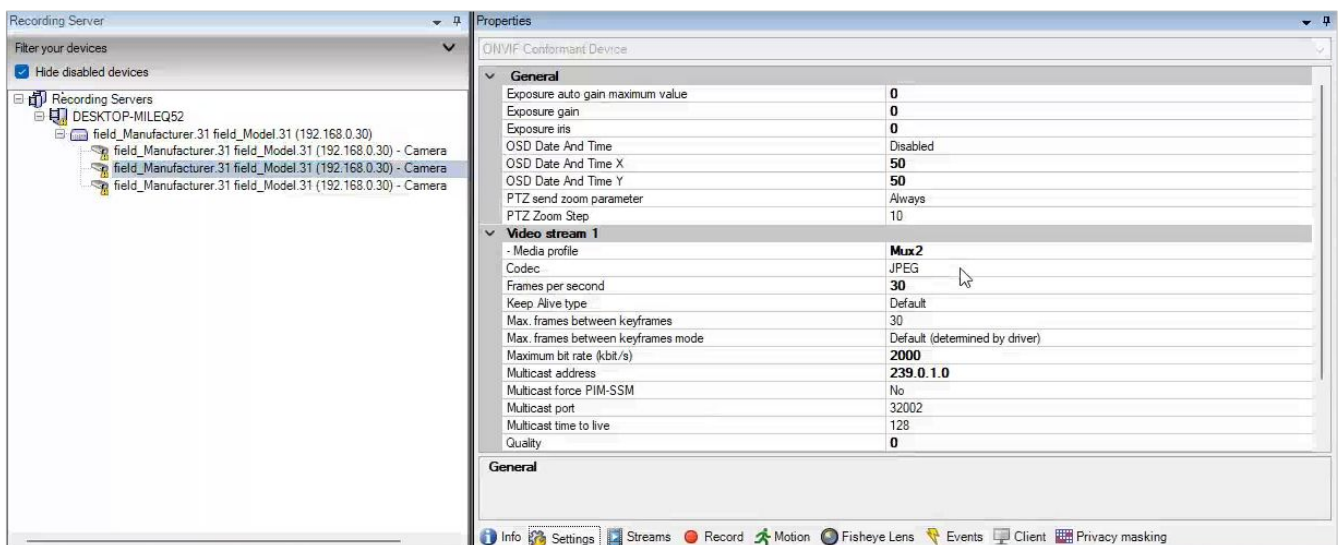
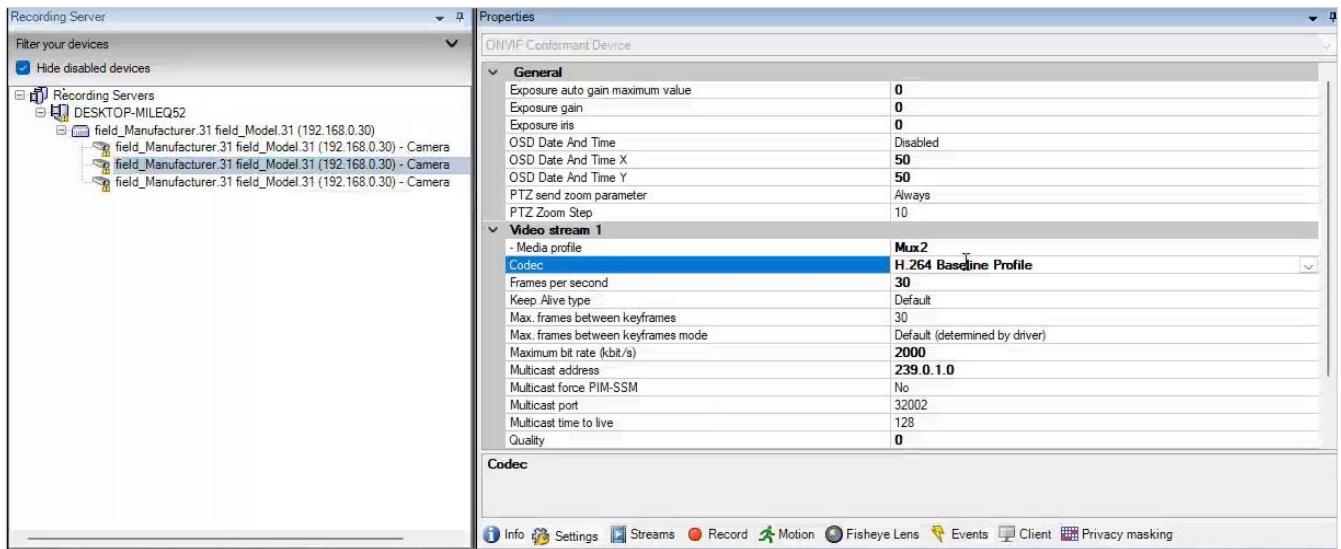


Figure 20 : Example - Mux2 detected Codec as JPEG



On all 3 Camera's the codec needs to be changed to H.264, to match the Codec being streamed from the ANT-1776ZB.

Figure 21 : Change Codec to "H.264 Baseline Profile"



After changing the Codec to H.264 the video is displayed for Mux2 and Mux3

Figure 22 : mux2 + 3 video displayed

