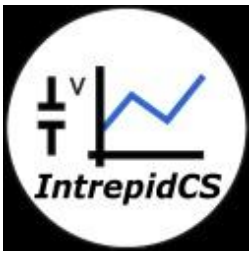


Intrepid Control Systems, Inc.

Setup Steps for Video Logging via neoVI ION

Document Number: G-ICSC-1001

Rev 2.0 09/2014

Contents

1. Introduction:

This manual will show how to fulfil video logging feature on ION with camera

2. Setup Steps for Video Logging via neoVI ION:

2.1 Hardware Setup:

neoVI ION with FIRE VNET, AXIS P1214-E Camera

2.2 Procedure:

2.2.1 Camera Setup

- Power and connect the camera to PC with Ethernet cable
- Open the folder "AXIS INSTALL", run START.exe. Then click "AXIS IP Utility" and "Run AIXS IP Utility"
- The connected camera device will be shown here. If NOT, please check:
  - Press "Refresh" button.
  - Disconnect all your wireless network to make sure the camera is in the same network with your PC

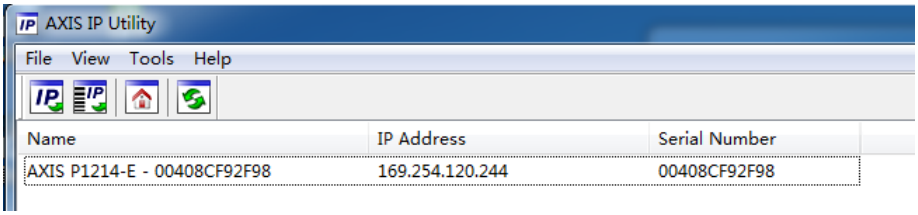


Figure 1: Camera in the AXIS IP utility.

- Double click the listed device, the browser will open a web based viewer for the video.

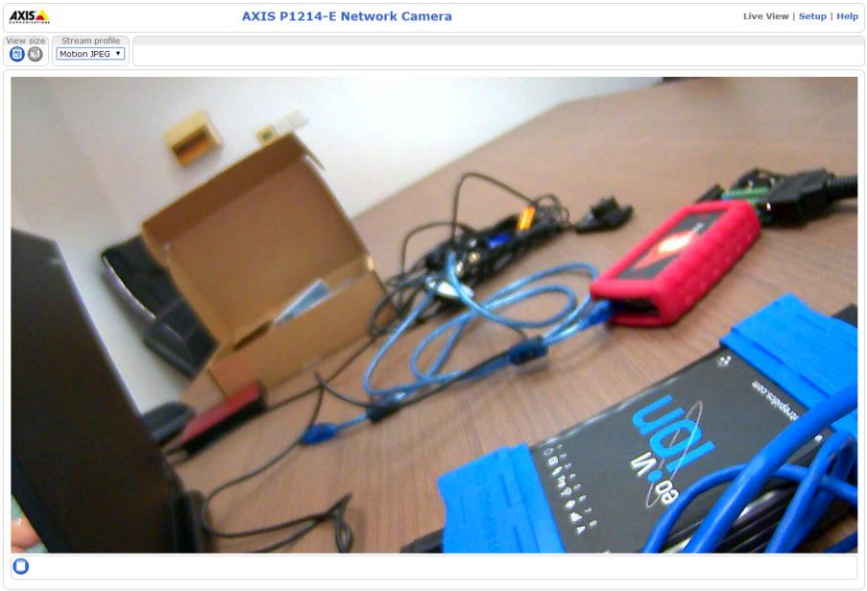


Figure 2: Image captured by Camera.

- Click the "Setup" tag on the right left of the page, enter username and password. Default username is "root", password is empty.
- Go to "Basic Setup" → "Instructions" → "Users", check the checkbox "Enable anonymous viewer login"

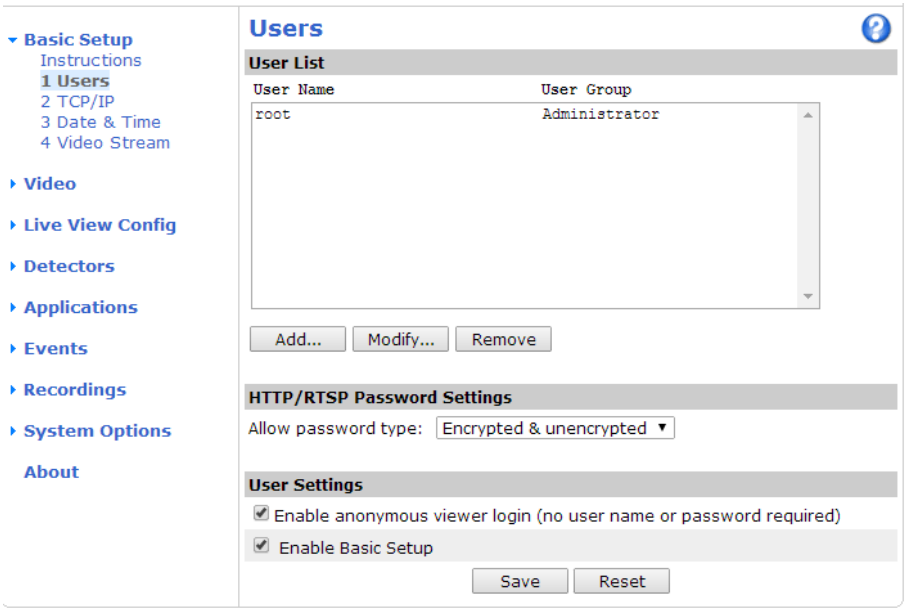


Figure 3: Settings from the AXIS utility for Camera settings

2.2.2 Set Scripts in VSPY(Stand Alone Mode):

- Install the latest VSPY version, 3.7.0.32 beta is used for demo here.
- To keep the ION wake, please add an ECU simulator on the bus. Just send some messages periodically. If you connect to a real car, ignore this step.
- Go to "Measurement" → "VehicleScape DAQ" → "Standalone Logging", you can set with your different requirements. To make it easy here, we just set:
  - "Collection Configuration" → "Finish After # of Message", set it to 5000000.
  - "Generate" → check "Enable video logging". Then click "Generate" button

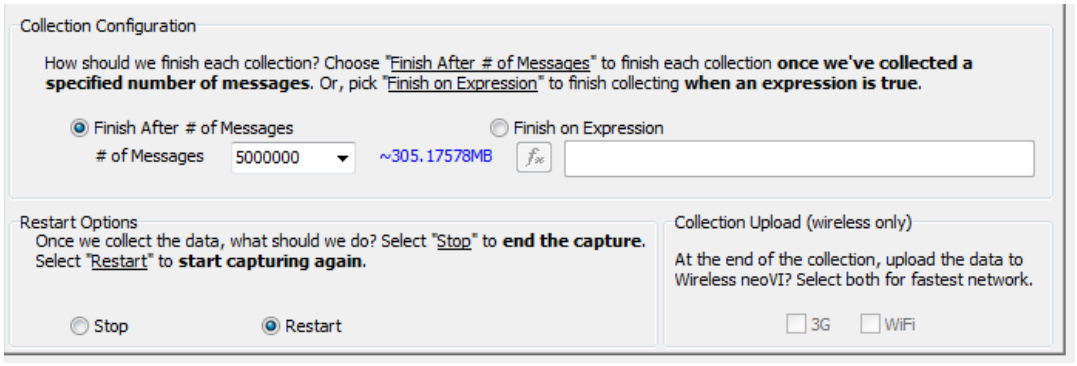


Figure 5: VehicleScape DAQ settings to capture the number of messages.

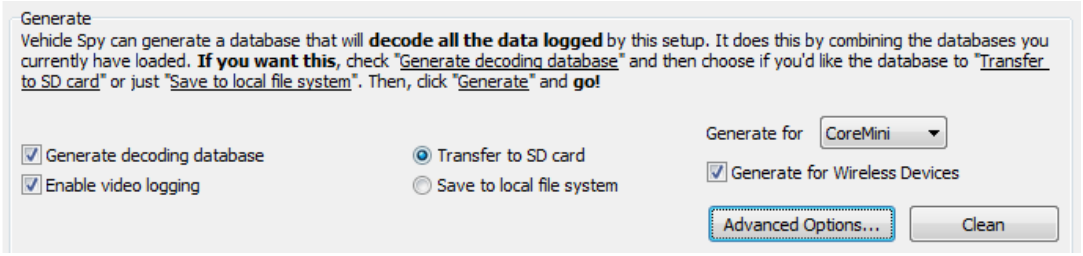


Figure 6: VehicleScape DAQ settings to Generate the CoreMini executable

- Click the "Generate" button to open generator window, make sure there's no compile error output in the "Build" tab.
- If you want to set the video quality, click the "Advanced Setting" tab for video setting, we just keep the default here.
- Download the CoreMini scripts into ION SD card device. Make sure check the "Run CoreMini after Download".

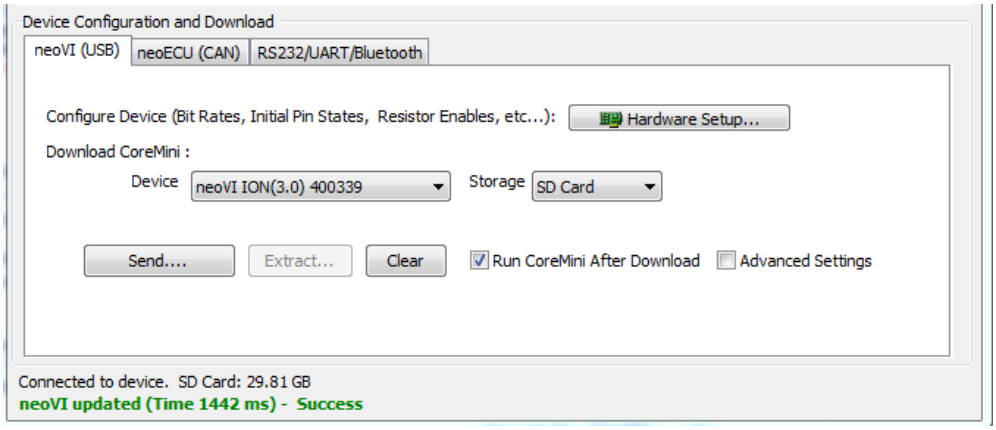


Figure 7: VehicleScape DAQ settings to download CoreMini executable in ION

- You can check the LED from ION and camera status, they should be:
  - LED 1 on ION is blinking fast (CoreMini is running).
  - LED 2 on ION is blinking with about 2 seconds cyclical time (Data is written to SD card)
  - LED NET on camera is blinking very fast (Video data is captured and transferred via the Ethernet port. It will take about 2 minutes to camera boot up before LED NET blink.

2.2.3 Extract Data:

- After logging for a while, take out SD card from ION. Insert your SD card into PC or with a USB card reader. We don't recommend extract data via ION through USB.
- Go to "Tools" → "Utilities" → "Extract/Export", SD card will be shown as bellow. If not, please restart your VSPY and try again.

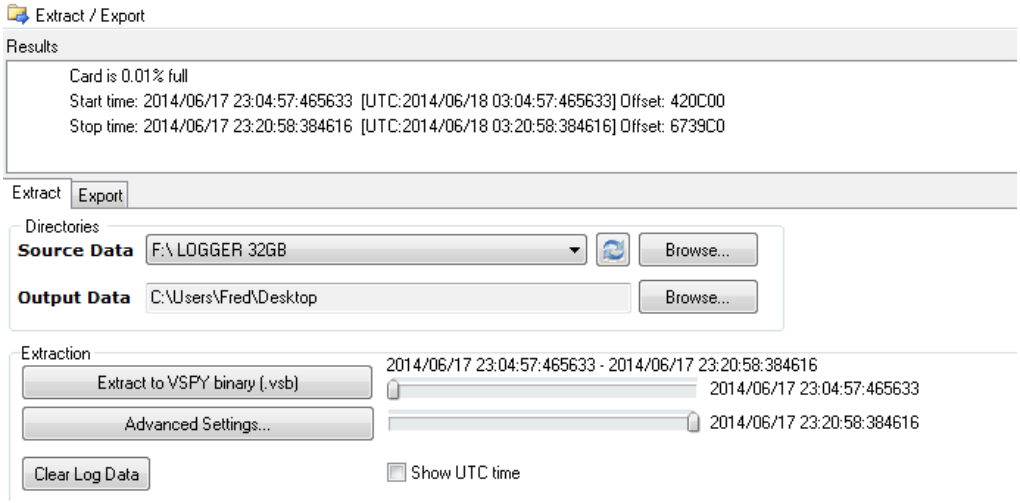


Figure 8: Extractor settings to extract the logged files from the SD Card

- Click "Advanced Settings…" and check "Generate Video from Extracted Images" to get video (AVI format) after extraction. Or else only images will be exported.

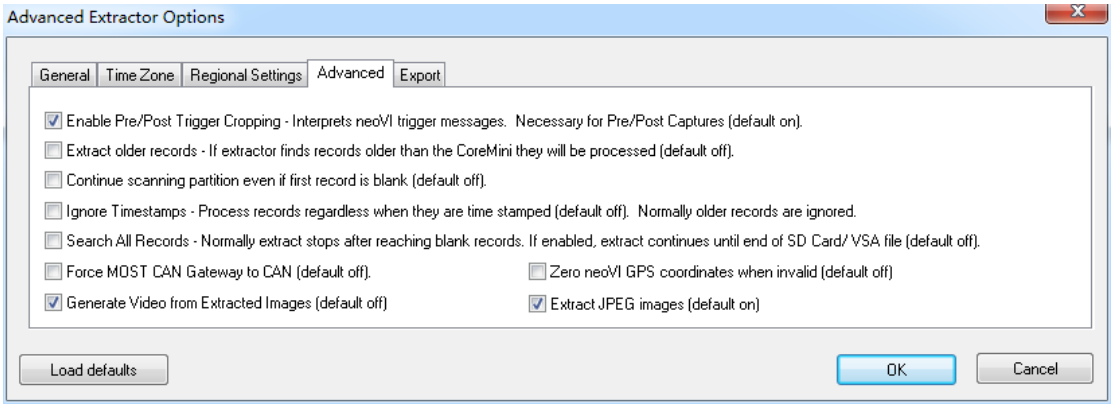


Figure 9: Advanced settings to generate video from the logged data.

- Click “Extract to VSPY binary (.vsb)”, after extraction, data will be shown like following:

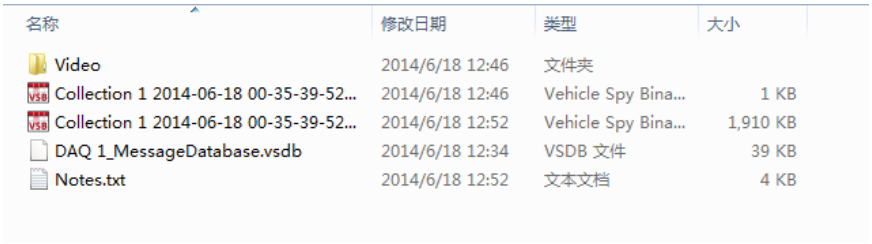


Figure 10: Extracted Data in the data directory

- Video folder will include both video and images logged from camera:

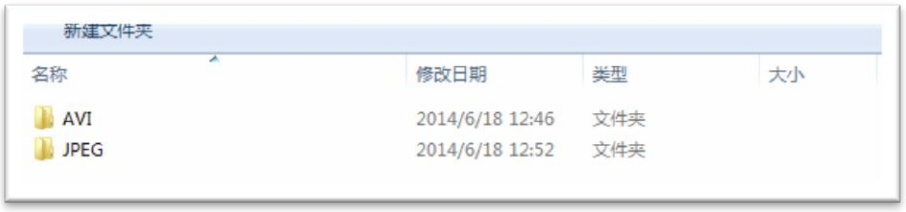


Figure 11: Video folder

2.2.4 Review Buffer and Playback:

- Go to “File” → “Review Buffer”, select the logged file with .vsb extension. Then click “OK” in the “Choose VSB Method” window.
- Go to “Measurement” → “Video Frames Review” to open the video viewer. You can move the time bar to see different image on corresponding time.

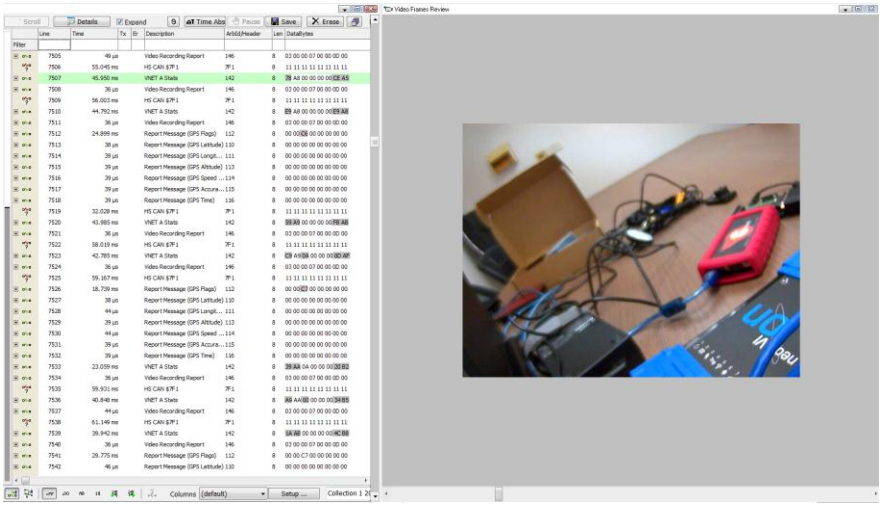
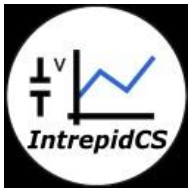


Figure 12: Review the Video frames in VSPY

- You can also go online in simulation mode with the .vsb file. Video will loaded automatically and be played

3. Contact Us:



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