

## Technical Note 0004

Released 12/Jul/2021

### Technical Note Description

This Technical note describes how to view the DEBUG stream and send Telnet commands to both the NVR and cameras using the Uniplex NVR browser interface

### Product Models Covered

Uniplex series NVRs

### How to .....view the DEBUG stream and send Telnet commands to both the NVR and cameras using the Uniplex NVR browser interface.

Use your browser (Firefox or similar browser) to view the web page of the Uniplex NVR.



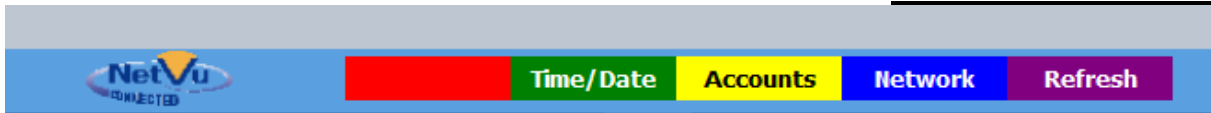
The screenshot shows the 'System Page' of a Uniplex NVR web interface. The page has a dark blue header with 'ClosedIPTV' and 'Uniplex' text. A left sidebar contains navigation links: System, Display, Camera, Record Settings, Alarm, Network, Image Profiles, and Live Viewer. The main content area displays system details in two columns. A 'Save' button is located at the top right of the system page. At the bottom of the page, there is a footer with the NetVu logo and a row of colored buttons: Time/Date, Accounts, Network, and Refresh.

System Page		Save	
Product Descriptor	Uniplex	Number of Cameras	64
Platform	N2S	Video Standard	PAL
Serial Number	MT155002N002	Video Storage	11.5 TB
System Name	THF-UPXA	Earliest Recording	Thu, 13 May 2021 16:23:00
Account ID	XXX000	Time since last reset	4 Hours
Product Code	UPXA	Total running time	270 Days
Last ECN	0		
IP Address			
Sub Net			
Gateway			
MAC Address	00-D0-D9-0B-E3-DF		
Zero Conf. Address	169.254.245.37		
Software Revision	v1-26-024a		
Switch Version	UPXA 1.44A		
Webpage Revision	WP_Gen4 (13190)		

At the bottom of the screen in the left-hand corner you will see the NetVu logo.

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Hold down both the **Ctrl** and **Shift** keys of the PC and at the same time double click on the NetVu logo using your mouse.

The following additional boxes will appear along the bottom of the screen:



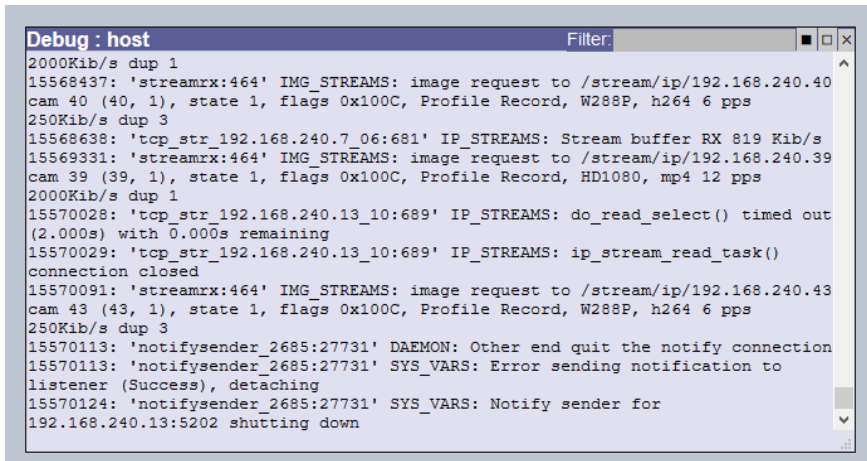
If you click on the **HOST** button a pop-up box will appear.



This allows you to choose what device you wish to interact with. If you select HOST, then interaction will be with the Uniplex NVR. Click on the camera desired if you wish to interact with a camera.

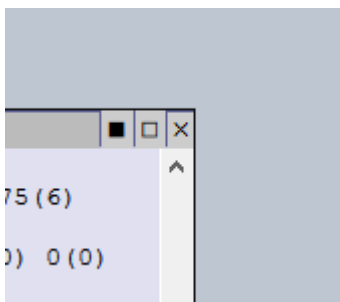
### Viewing the DEBUG Stream

Once you have select the item that you wish to interact with click on **Debug Window** and a debug window will open.



Information as to the status of the NVR/camera will scroll up this window.

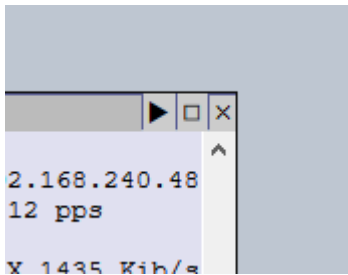
To pause the scrolling, click on the black square in the top right-hand corner of the debug window.



You can then drag of the contents of the debug window to copy and save it's contents to your PC.

To start the scrolling once more click on the black triangle.

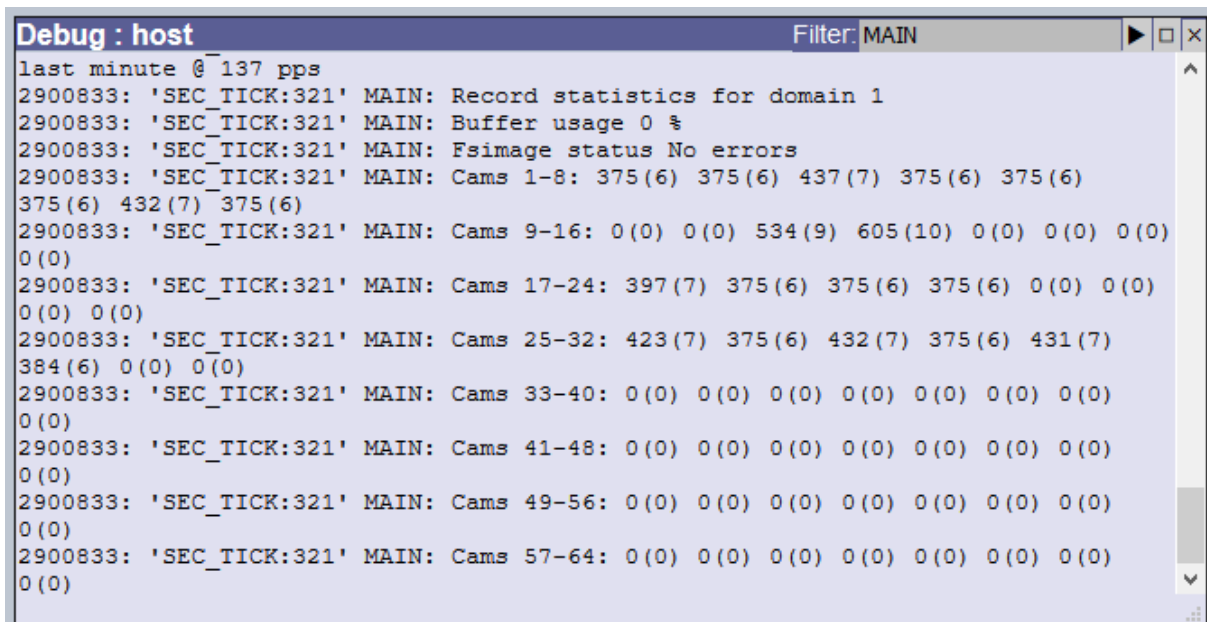
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Click on the X in the top right-hand corner of the debug window to close it.

When viewing the DEBUG stream from the Host i.e. the NVR it is possible to filter the DEBUG stream to pull out useful information.

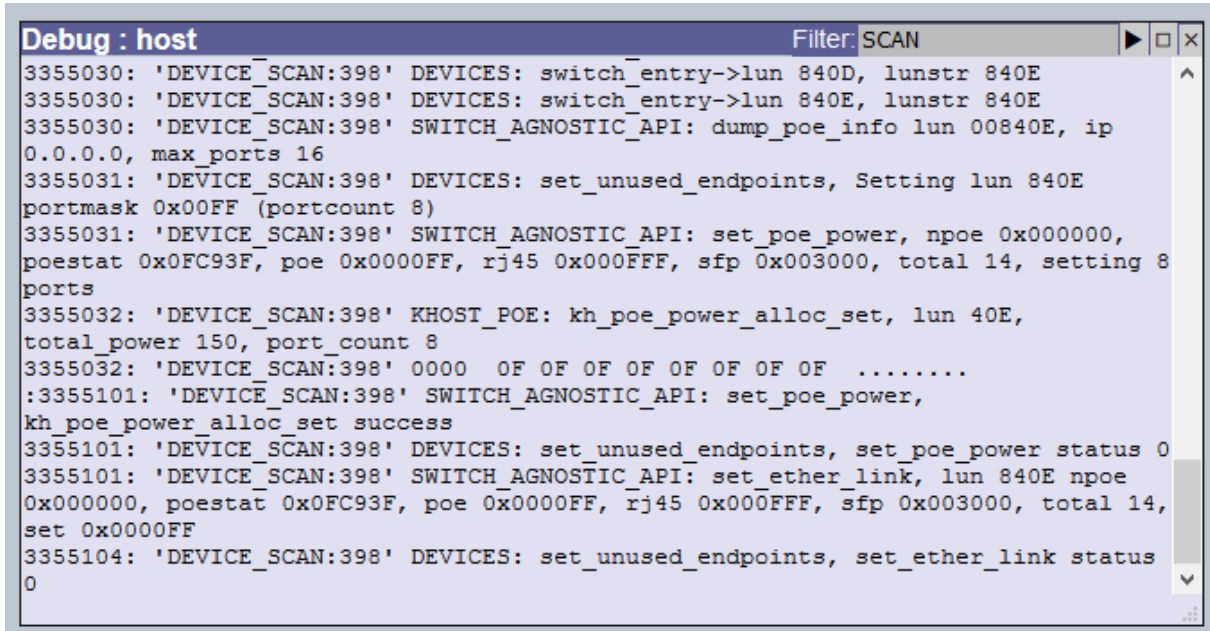
For example, if **MAIN** is entered into the Filter field in the top right-hand corner of the DEBUG window the record rates being achieved on the connected cameras can be viewed.



In the example above the frame rate achieved is the figure in brackets and we can see that cameras are being recorded at 6 - 7 images per second.

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Similarly, if **SCAN** is entered into the Filter field in the top right-hand corner of the DEBUG window then details of the NVR scanning for new NetVu devices will be shown.

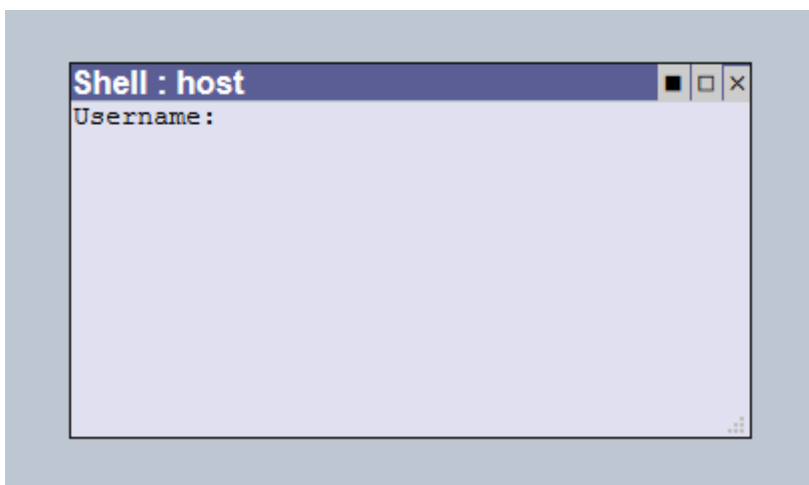


```
Debug : host Filter: SCAN
3355030: 'DEVICE_SCAN:398' DEVICES: switch_entry->lun 840D, lunstr 840E
3355030: 'DEVICE_SCAN:398' DEVICES: switch_entry->lun 840E, lunstr 840E
3355030: 'DEVICE_SCAN:398' SWITCH_AGNOSTIC_API: dump_poe_info lun 00840E, ip
0.0.0.0, max_ports 16
3355031: 'DEVICE_SCAN:398' DEVICES: set_unused_endpoints, Setting lun 840E
portmask 0x00FF (portcount 8)
3355031: 'DEVICE_SCAN:398' SWITCH_AGNOSTIC_API: set_poe_power, npoe 0x000000,
poestat 0x0FC93F, poe 0x0000FF, rj45 0x000FFF, sfp 0x003000, total 14, setting 8
ports
3355032: 'DEVICE_SCAN:398' KHOST_POE: kh_poe_power_alloc_set, lun 40E,
total_power 150, port_count 8
3355032: 'DEVICE_SCAN:398' 0000 OF OF OF OF OF OF OF OF .....
:3355101: 'DEVICE_SCAN:398' SWITCH_AGNOSTIC_API: set_poe_power,
kh_poe_power_alloc_set success
3355101: 'DEVICE_SCAN:398' DEVICES: set_unused_endpoints, set_poe_power status 0
3355101: 'DEVICE_SCAN:398' SWITCH_AGNOSTIC_API: set_ether_link, lun 840E npoe
0x000000, poestat 0x0FC93F, poe 0x0000FF, rj45 0x000FFF, sfp 0x003000, total 14,
set 0x0000FF
3355104: 'DEVICE_SCAN:398' DEVICES: set_unused_endpoints, set_ether_link status
0
```

Much useful information is contained in the DEBUG stream, by entering a Filter specific information can be found.

### Using engineering Telnet commands

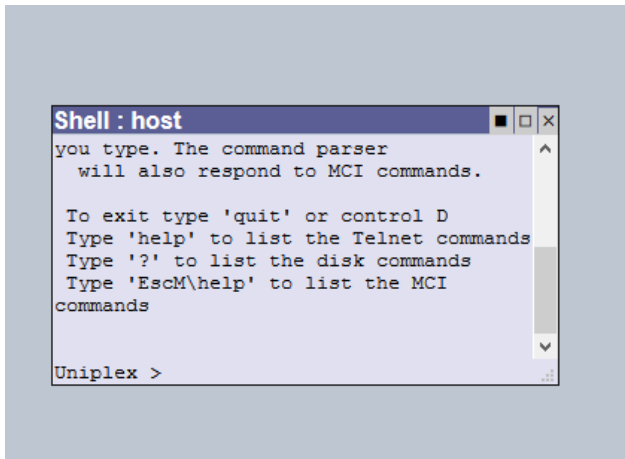
To use engineering Telnet commands click on **Command Shell** and a shell window will open.



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You will be prompted to enter the system configuration user name and password.

Once these are entered the following prompt will appear in the window.



A wide range of engineering commands are available to help you to configure or fault find the NVR or camera with which you are interacting.

Type 'help' to list the Telnet commands  
Type '?' to list the disk commands  
Type 'EscM\help' to list the MCI commands

Useful Telnet commands are described in a separate Technote

Click on the X in the top right-hand corner of the shell window to close it.

### **Viewing System Variables**

To use engineering Telnet commands click on **Sysyars Window** and a new window will open.



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Click on the X in the top right-hand corner of the shell window to close it.

To hide the engineering buttons hold down both the **Ctrl** and **Shift** keys of the PC and at the same time double click on the NetVu logo using your mouse. Alternatively just refresh the web page using your browser.