# Defining POS and SNMP

POS is an acronym for Point-of-Sale. If you are a business that has a Point-of-Sale system, you can probably link it to cameras on your NVR. This can display your transactions in text over the video, and/or create a timestamp on the video, that will become searchable later. If you find an odd transaction, or missing money, you can use the POS search to instantly tell you when a POS signal was received and watch the corresponding video. This is especially useful for multiple registers that each have a camera, so you can sort transactions by camera to find the video you need quickly.

SNMP is an acronym for Simple Network Management Protocol. This is a protocol you can use to gather information from your video equipment. Typically, people who use this employ a 3rd party software that will gather information about many devices on their network regularly, to head off any complications that can arise from devices with improper configurations, hardware failures, or other various troubles.

Configuring POS

To configure POS on your Uniview tec NVR you can access Menu directly from the NVR or Setup from your NVR's web portal. You will need to know the IP address of the device sending POS data, the protocol type it is using, and the port it is communicating on. If you also need to relay this information to other devices on the network, you will need to know their IP address and what port you want to communicate with them on(different to the receiving port); In this case the protocol type would be unchanged from the original message.
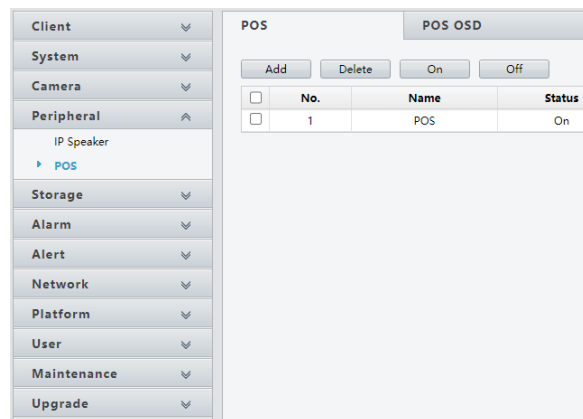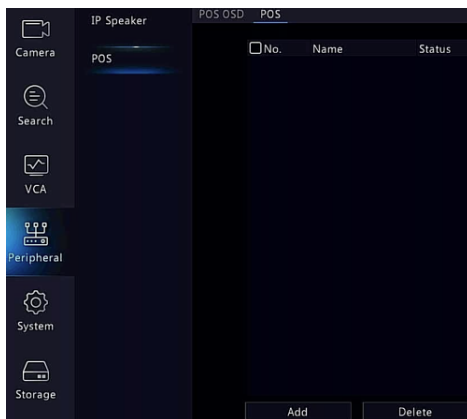
NVR	Web Portal
Navigate to **Menu** > **Peripheral(System)** > **POS**	Navigate to **Setup** > **Peripheral(System)** > **POS**
Click **Add**	Click **Add**

NVR

Navigate to **Menu** > **Peripheral(System)** > **POS**

Click **Add**

Click **Setup** gear by **Set Connection**

Set the **Transfer Protocol** type

Set the **Local Receiving Port**

Set the **Source IPv4 Address**

TCP protocol may require **Source Port** too

If you want to relay the data received to another device:

Set the **Destination IPv4 Address**

Set the **Destination Port**

Advanced configurations may require clicking the **Setup** gear next to **Set Protocol**

Web Portal

Navigate to **Setup** > **Peripheral(System)** > **POS**

Click **Add**

Click **Setup** button by **Set Connection**

Set the **Transfer Protocol** type

Set the **Local Receiving Port**

Set the **POS IPv4 Address**

TCP protocol may require **Source Port** too

If you want to relay the data received to another device:

Set the **Destination IPv4 Address**

Set the **Destination Port**

Advanced configurations may require clicking the **Setup** button next to **Set Protocol**

ALL above settings are dependent on your POS system and for information on that you will need to refer to your POS installation materials on contact that provider's technical support.

Don't forget to click **Save** after any modifications, on each window. You can name this POS entry if you are going to have a multiple, to distinguish it among other entries, but if you are only going to have one, the default name would be fine.

Select which camera(s) you would like to receive this POS information and click **Save** again. Each camera can only receive POS information from one source, but any source can send information to any number of cameras.

Select Camera ☐All											
☐D1	☑D2	☐D3	☐D4	☐D5	☐D6	☐D9	☐D10	☐D11	☐D12	☐D13	☐D14
☐D15	☐D16										
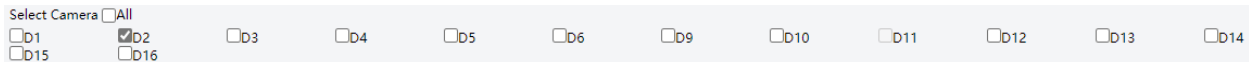
In **Live View** there is an icon that says POS with a circle and slash over it , this indicates POS is disabled in viewing by default. To enable it, click this icon so that just POS is showing .

Searching POS

Once you start getting POS signals, you will next want to know how to search for POS entries in the NVR.

New Firmware	Other Firmware
1. Go to **Playback**	1. Go to **Playback**
2. Click next to a **Channel**	2. Change **Normal** to **POS Search**
3. Set **Select Camera** to your desire	
4. Set **Type** to POS	
5. Set your **Start** and **End** times	3. Select your desired **Channel(s)**
6. Click **Search**	4. Set your **Start** and **End** times
7. Select a listed POS **Timestamp**	5. Click **Search**
8. Click **Download,** or navigate to the time shown by the standard playback method to view the event	6. Select a **Timestamp**
	7. Click the **Play** button

While playing back you may have to click the icon that says POS with a circle and slash over it and toggle it so that just POS is showing to enable the POS text on screen, should you want to see it.

Configuring SNMP

To configure SNMP on the NVR, you will want to navigate to **Setup** > **Platform** > **SNMP** and enable it. Normally only SNMP Type and/or Trap Server Address will need to be changed. The configuration here will again depend completely on your SNMP software.

SNMP utilizes OIDs or object identifiers, below is the OID structure for the Uniview tec NVRs:

1.3.6.1.4.1.25506.20.1.0 = System Info	DevName: device name DevModel: device model SoftwareVersion: Software version DevSeqNumber: device serial number
1.3.6.1.4.1.25506.20.2.0 = ALL HDD Info	DiskTotalNum: Total number of disks DiskTotalCapacity: Total disk capacity DiskRemainCapacity: Remaining capacity
1.3.6.1.4.1.25506.20.3.0 = Single HDD info	DiskID: Disk ID Disk Space: Corresponding disk capacity Remaining Space: Available Space on disk Status: The corresponding disk status
1.3.6.1.4.1.25506.20.4.0 = IPC(Camera) Info	IPC.NO: IPC serial number IPC.Name: IPC name IPC.IP: IPCIP IPC.Port: IPC port IPC.Status: IPC status IPC.Model: IPC model IPC.Software: IPC software version number
1.3.6.1.4.1.25506.20.5.0 = IPC Encoding Info	CHLID: Channel number Encode Type: Encoding format Rate: frame rate
1.3.6.1.4.1.25506.20.6.0 = Device Runtime	Time since last boot in seconds
1.3.6.1.4.1.25506.20.7.0 = Memory Info	
1.3.6.1.4.1.25506.20.8.0 = CPU Usage	