



NETGEAR M4250 Fully Managed Switch User Guide

[Home](#) » [NETGEAR](#) » NETGEAR M4250 Fully Managed Switch User Guide 

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BUSINESS

Application Guide | M4250

Sony, Kiloview, and NETGEAR M4250 Switch Series Sony Camera, Kiloview Video Encoder/Decoder, NDI Converter and NETGEAR M4250 Switches Application Guide



SONY



KILOVIEW®



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Contents

- [1 Summary](#)
- [2 STEPS](#)
- [3 Documents / Resources](#)
 - [3.1 References](#)
- [4 Related Posts](#)

Summary

Units tested with Sony BRC-X400 12G-SDI 4K camera and NETGEAR M4250 switch, N30 12G SDI Video Encoder/Decoder.

The necessary steps to set this up are very straightforward and we did not encounter any difficulties. It's virtually plug and play, with a few steps to observe.

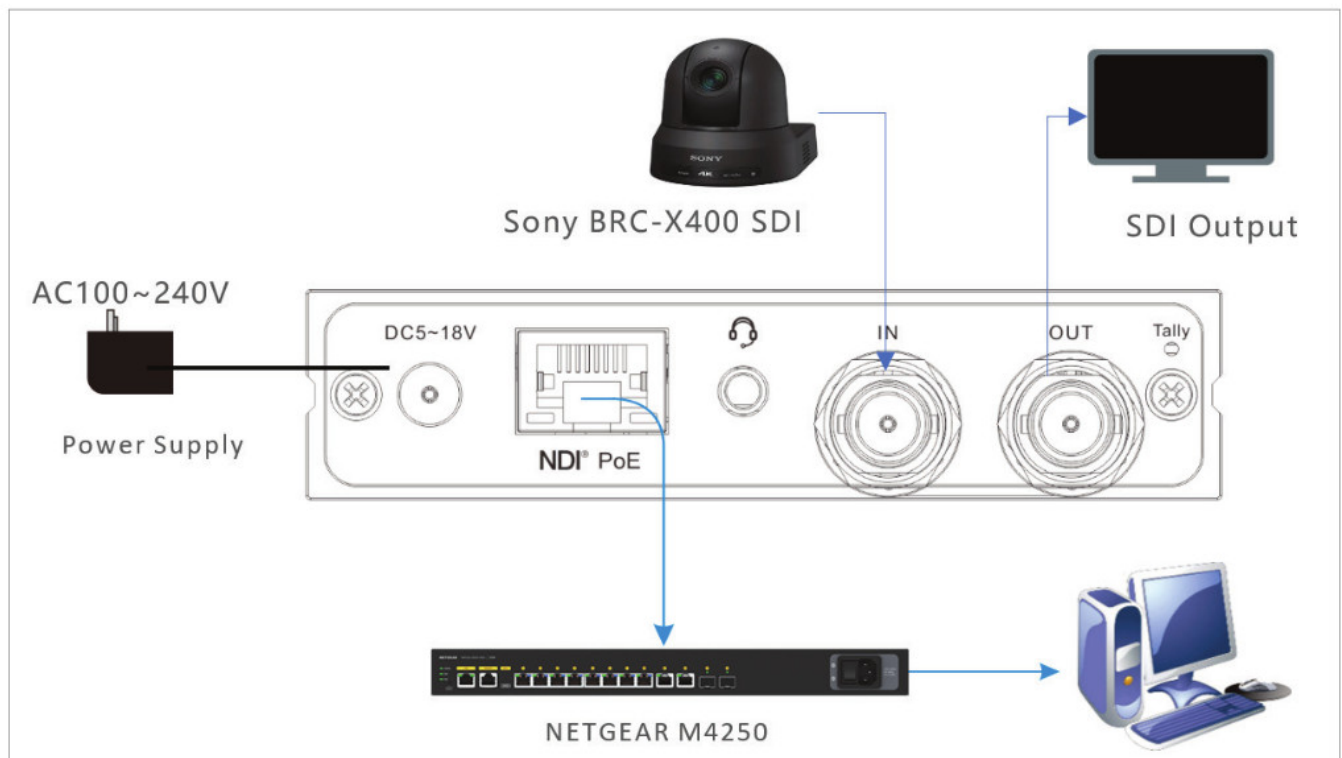
We recommend the combination of Sony's SDI cameras with Kiloview N30 12G-SDI NDI Converter products, connected to a NETGEAR M4250 to add the cameras to an NDI workflow.



N30 12G SDI Video Encoder/Decoder



Sony BRC-X400 12G-SDI 4K camera



STEPS


1. Connect the Kiloview N30 to Netgear m4250 with PoE, then no extra power supply would be required.
2. the N30 IP address can be discovered in 2 ways:
 - a. Automatically in a DHCP enabled LAN
 - b. Use the default IP: 192.168.1.168 to login to the N30 for management. For more details, please refer to the manual with the following link: <https://www.kiloview.com/en/support/docs/12g-sdi/n30-user-handbook/configuration/1-2/>
3. Setup DHCP on the m4250 Switch:
 - a. Connect a PC to the M4250 management interface and login to the AV UI:

Login Name

admin





Password

••••••••••••



AV UI Login

b. Select “Network Profiles”, click the 3 dots : and select “Edit”:

Configured Profiles					
Profile Name	Profile type	VLAN ID	IP Address	# of Assigned Ports	
 Default	Data	1	169.254.100.100	12	
		Total 1	10/page	< 1 >	Go to 1
		 Edit  Querier			

c. Create desired DHCP configuration and click “Apply”:

The screenshot shows a network configuration interface for a LAG (Link Aggregation Group). At the top, there is a row of 12 ports, each with a green checkmark icon. Below this is a 'Untag all' button. The main section is titled 'LAG' and contains 'Profile Settings' and 'Edit VLAN Routing / DHCP Server'.

Profile Settings
Configure your profile settings and preferences.

Profile Name: Default
Profile Template: Data
VLAN ID: 1
Color: #000000

Edit VLAN Routing / DHCP Server (Toggle is ON)

VLAN IP Settings: Static
VLAN IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0

DHCP Server: DHCP Server
Default Router: 192.168.1.1
DHCP Server Pool Start: 192.168.1.10
DHCP Server Pool End: 192.168.1.254
DNS Server 1: 8.8.8.8
DNS Server 2:
Search Domain:
Lease Time(minute): 240

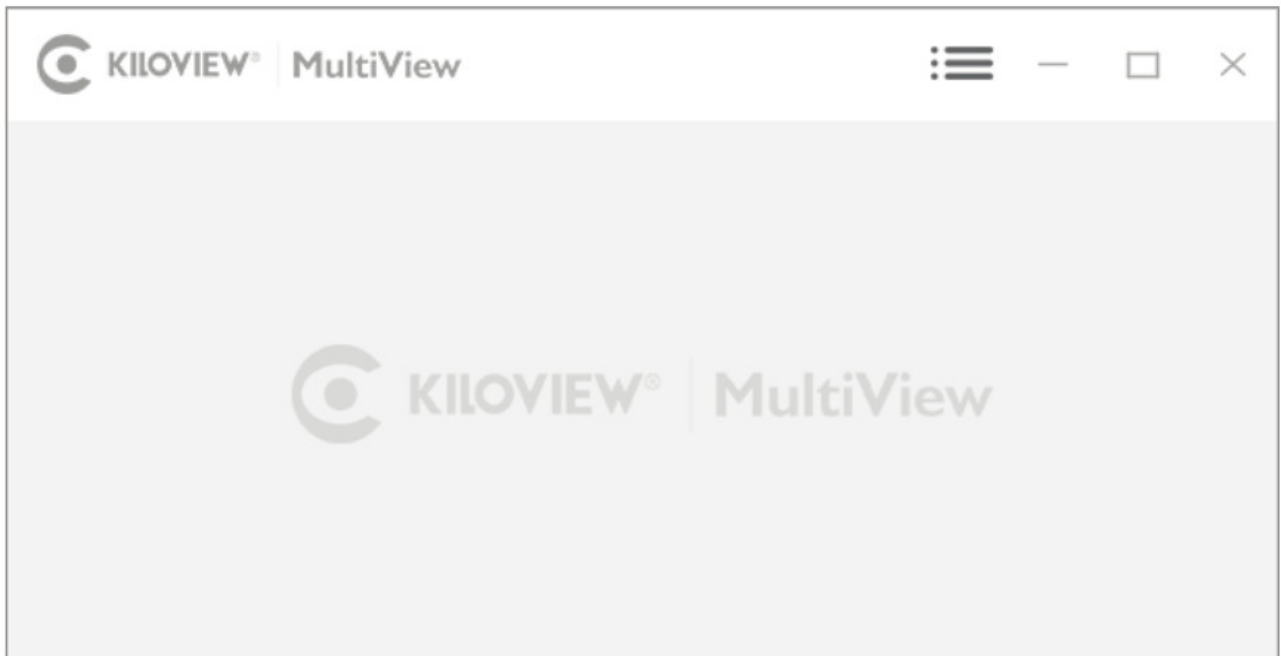
Buttons: Cancel, Apply

4. NDI is enabled by default on all Kiloview products, so the NDI source from N30 is available in the network by NDI tools like NDI monitor or Kiloview multiview:
 - a. To install Kiloview Multiview NDI Player, download the software for free: Scan the QR code or visit <https://www.kiloview.com/en/ndi/multiview/>, select “NDI Series” “Multiview” and click download, then install software step by step as instructions. Kiloview Multiview is a free software for NDI video discovery, management and multi-view, which is popular and highly praised all over the world.

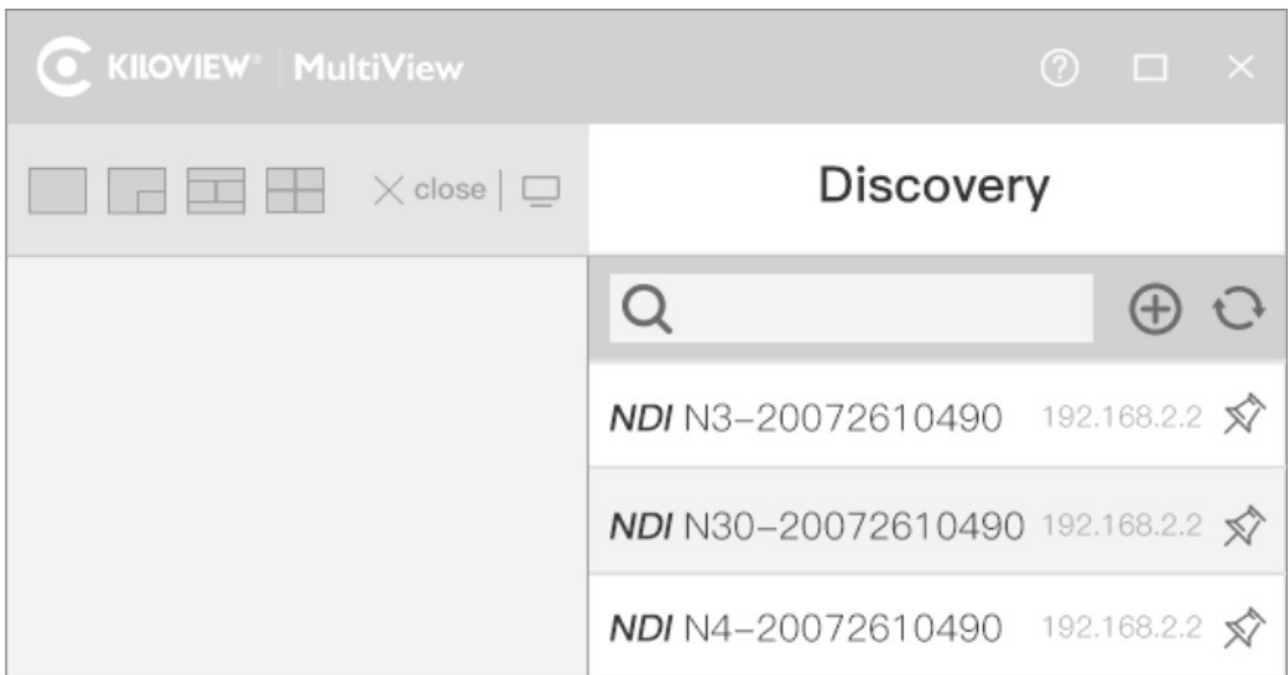


<https://www.kiloview.com/en/ndi/multiview/>

- i. Start the Kiloview Multiview, open the setting interface.



ii. Find the device in the device discovery list. Enter management interface through web browser.



Note



N30 naming rules: N30-<serial number>. Serial number refers to the numbers pasted on the device label.

Two ways of accessing to the device management page: method 1: Drag the device directly in the discovery list to the left window, wait and click the icon e appeared in the upper right to access Web UI directly. e method 2: Open Web browser, enter: Kindly note the device IP address for N30 is showed in the discovery device list.

b. Use Studio Monitor in the NDI SDK Tools.

To install the NDI SDK tool, scan the QR code or visit




<https://www.ndi.tv/tools/>.

Kindly follow the NDI official instructions
for download method and installation process.

Studio Monitor is one of the NDI SDK Tools for free which is provided officially by NDI for discovery and monitoring NDI video.

Right click on the Studio Monitor interface, find the name of N30 in the pop up menu, click it for playing NDI video. At the same time, a gear icon will appear in the lower right corner, click it and then a browser window will pop up for logging in and accessing the Web UI of N30.

5. If you wish to put the NDI devices in a NDI VLAN, in order to separate NDI traffic from data and audio traffic for example, please follow the steps in our NDI + Dante setup on m4250 document.  **Note** N30 naming rule: N30-<serial number>. Serial number refers to the numbers pasted on the device label.


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Documents / Resources

	<p>NETGEAR M4250 Fully Managed Switch [pdf] User Guide M4250, Fully Managed Switch, Managed Switch, Fully Switch, Switch, M4250</p>
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References

-  [NDI Multiview, NDI Video Player - Kiloview](#)
-  [Login to the Device via Ethernet – Kiloview](#)
-  [NDI Tools | NDI.tv](#)

