

Blackjack® S-RACK

Servers Powered by DW Spectrum® IPVMS

State of the art hyper-optimized video management platform designed for ease, speed and efficiency.

Blackjack™ S-RACK — Up to 16 2.1MP Cameras (1080p True HD Resolution)

Blackjack S-RACK

DW-BJS1U3T-LX	DW-BJS1U6T-LX	DW-BJS1U9T-LX	DW-BJS1U12T-LX	DW-BJS1U18T-LX	DW-BJS1U24T-LX
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WHAT'S IN THE BOX

S-RACK Server		1 Set	Quick Start Guide		1 Set	OS Recovery USB (Emergency Recovery)		1 Set
Keyboard and Mouse		1 Set	Power Cable (x2)		1 Set	Patch Cable		1 Set

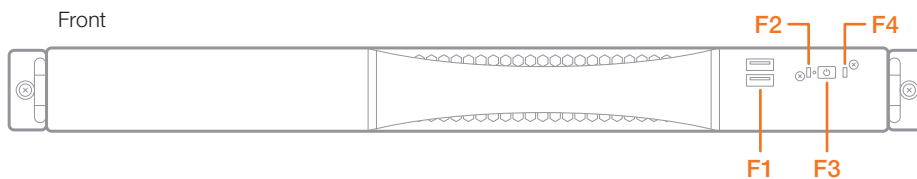
NOTE: Monitor and network cables are not included.

NOTE: Download All Your Support Materials and Tools in One Place

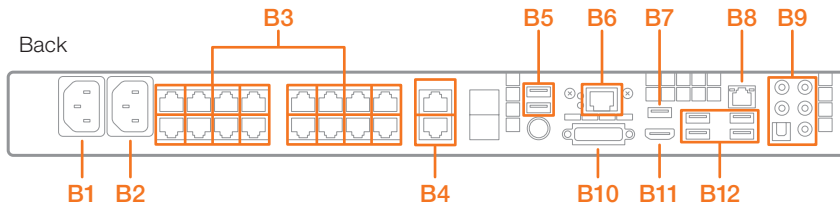
1. Go to: <http://www.digital-watchdog.com/support-download/>
2. Search your product by entering the part number in the 'Search by Product' search bar. Results for applicable part numbers will populate automatically based on the part number you enter.
3. Click 'Search'. All supported materials, including manuals, Quick Start Guides (QSG), software and firmware will appear in the results.

ATTENTION This document is intended to serve as a quick reference for initial set-up. See the DW Spectrum™ IPVMS full manual for more information on features and functionality.

BLACKJACK S-RACK HARDWARE

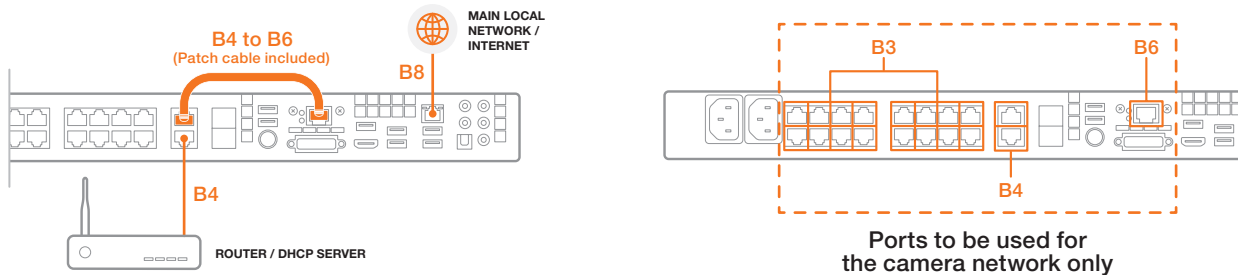


- F1 USB 2.0 Ports
- F2 Power Status LED
- F3 Power Button
- F4 HDD Status LED



- B1 System Power Port
- B2 PoE Switch Power Port
- B3 10/100Mbps PoE Ports (Max 15.4W per Port)
- B4 1Gigabit Uplink Ports (Non-PoE Ports)
- B5 USB 2.0 Ports
- B6 NIC 1 (1Gigabit Ethernet Port)
- B7 Display Port
- B8 NIC 2 (1Gigabit Ethernet Port)
- B9 Audio Ports
- B10 DVI-D Output
- B11 True HD Output
- B12 USB 3.0 Ports

Network Cable Connection



1. Connect B8 to main local network and internet
2. Connect/Uplink B4 upper port and B6
3. Connect B4 lower port to router or DHCP server (No internet access through B4)

NOTE: B3, B4 and B6 ports should be used for the camera network only.

SPECIFICATIONS S-RACK

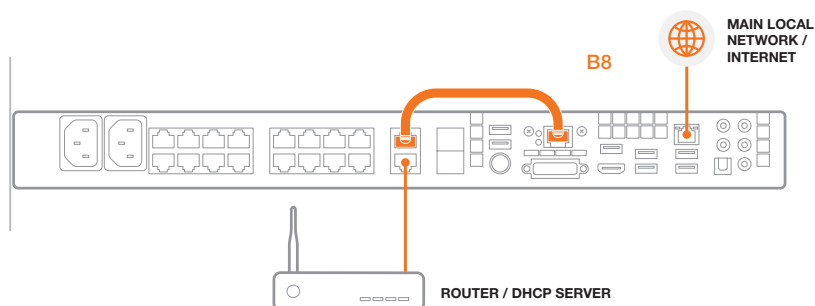
MODEL	Blackjack S-RACK 1U	
Maximum IP Cameras	16	
Included IP Licenses	4	
Form Factor	Rack Mount	
Operating System	Linux® Ubuntu®	DW-BJS1UXXT
CPU	Intel® Quad Core N3150 Processor	
Memory	4GB	
NIC	2x Gigabit Ethernet (RJ45)	
System	Max Video Storage Rate (Mbps)	80 Mbps
Built-in PoE Ports	PoE Switch	16 x 10/100Mbps PoE Ports + 2 x Gigabit Uplink Ports
	Number of PoE Ports	16 (Class3; 15.4W per Ports)
Storage	Maximum Hard Drives	1 x SSD + 3 x HDD
	Maximum Storage	24TB
Video-Out	Outputs	True HD Output, DVI, Display Port
	Video Card	AMD FinePro W4100
Keyboard & Mouse		Included
Power	System	300W**
	PoE Switch	Up to 270W**
Operating Temperature and Humidity		41°F-104°F / 20-90% RH
Dimension (WxDxH) (inches)		17.25" x 20.8" x 1.625"
Warranty		5 Year Limited

** UPS Recommended

SETTING UP THE S-RACK

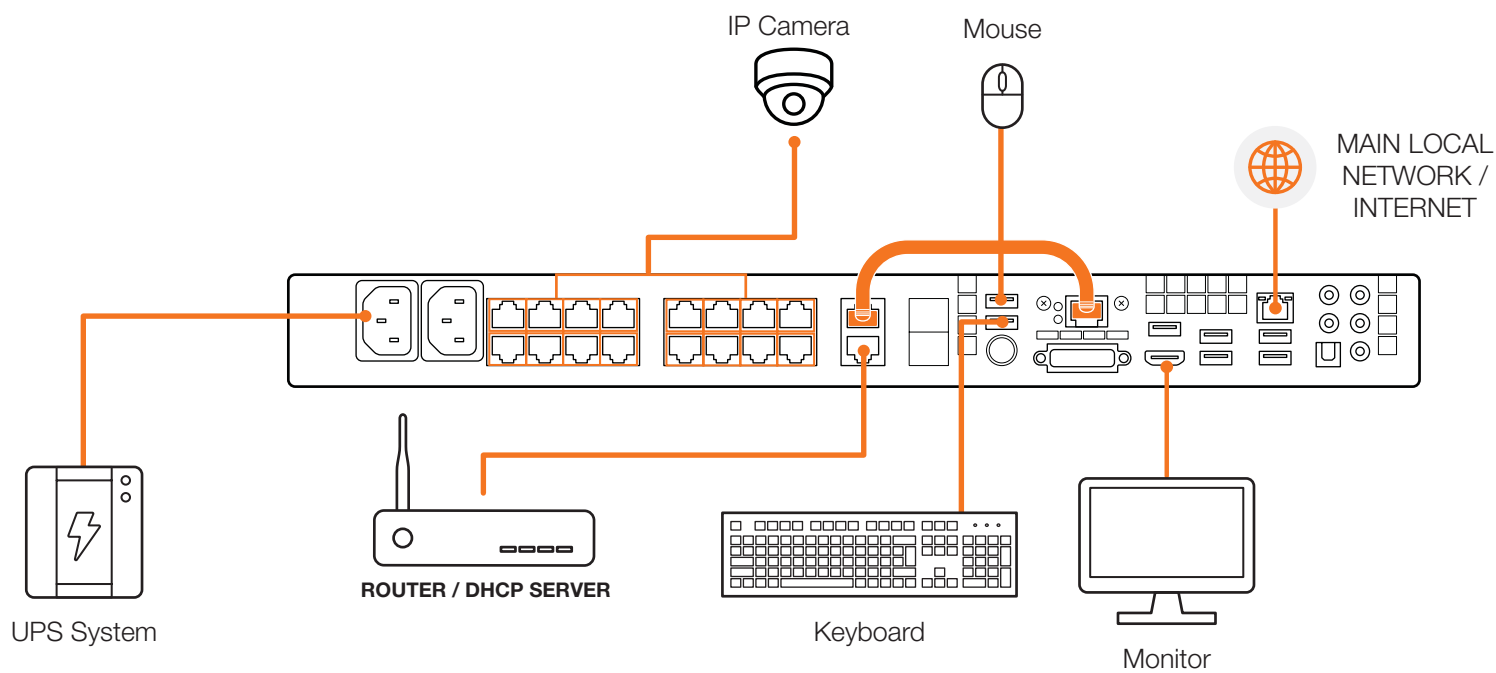
STEP 1: Connect peripherals, power and network

1. Connect a monitor, USB keyboard, USB mouse, and network cable to the camera network (B8 on the diagram).



* Cable for the Local Network should be connected after the IP settings are configured.

2. Connect the server to an appropriate power source. Recommended to use 750VA or higher UPS system.

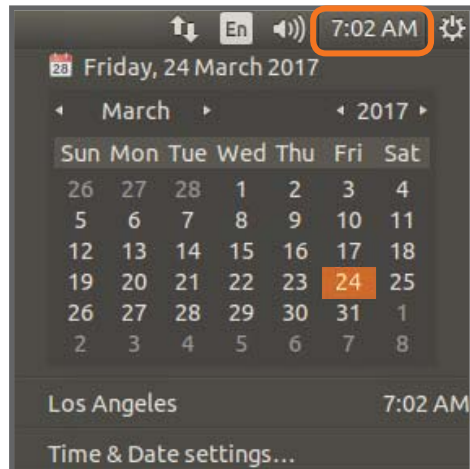


3. Turn on the server if the server does not turn on automatically.
(Press the Power Button on the front of the BOLT. F2 on the diagram).

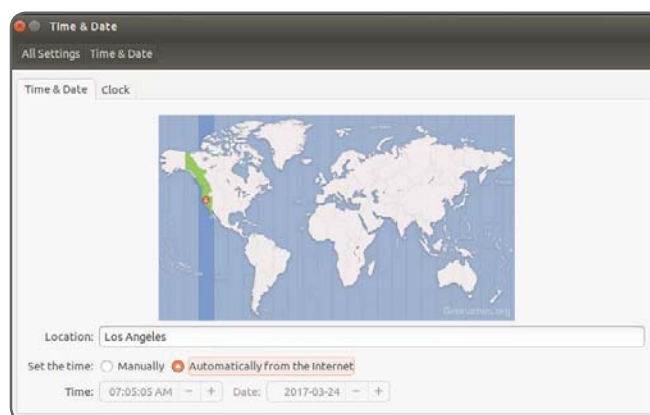
* Connecting the power cable to the live power source may turn on the server automatically

STEP 2: Set Date and Time

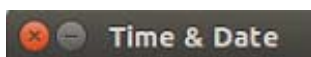
1. Update Date and Time by clicking on the time on the upper right-hand corner then click “Time & Date settings...”



2. If the server will be connected to the Internet, leave Set the Time to “Automatically from the Internet” and update the Location to the correct Time Zone. Enter the nearest major city to select the correct Time Zone. If it shows multiple cities in the list, select the correct city. (e.g., New York for EST, Chicago for CST, Denver for MST, and Los Angeles for PST)



3. Click X on upper left corner of the Time and Date window when done.



* Closing the window will automatically save the changes made.

STEP 3: Configure Network

Please have the following information ready before starting the network configuration.

	Camera Network	Local Network (LAN)
IP Address		
Netmask		
Gateway	Not Applicable	
DNS Servers	Not Applicable	

* Camera Network and Local Network cannot be on the same network.

* Netmask is also known as Subnet Mask. Gateway is also known as Default Gateway.

NOTE If you are not sure what information to enter, contact your Network Administrator or Internet Service Provider for the information.

Once you have all the information, double-click the Network icon  on the Desktop

NOTE The Blackjack BOLT's network settings are set to DHCP as default.

1. Select 'Wired' that has arrows pointing up and down from the list (If neither of the "wired" are showing arrows up and downs, then make sure the network cable is connected to the PoE switch on the camera network from **STEP 1**)
2. Click 'Options' at the bottom of the window.
3. Click on the 'IPv4 Settings' tab.
4. From the drop-down menu, select connection type ("Method") as Manual.
5. Click 'Add' next to Addresses.

- Enter IP Address then press Tab on the keyboard to move to Netmask.

Addresses		
Address	Netmask	Gateway
192.168.40.7		

- Ignore any populated values and enter the valid Netmask value, then press Tab on the keyboard to move to the Gateway.

Addresses		
Address	Netmask	Gateway
192.168.40.7	255.255.255.0	

- Enter the Gateway address if required then press Enter on the keyboard.

* Gateway is not required on the camera network.

Addresses		
Address	Netmask	Gateway
192.168.40.7		

NOTE It must be the same network as the cameras and must not be the same network as the local network. Contact your network administrator for more information.

- Click 'Save' to save the settings.
- In the Network Settings main page, make sure the Wired Status is marked as "Connected" or "Managed" with the IP Address displayed.

Wired	
Connected - 100 Mb/s	
Hardware Address 00:E0:53:17:84:BA	
IPv4 Address 192.168.40.7	
IPv6 Address fe80::8686:f6f8:2c8:5e9	

Local Network

- Select Wired with picture of network port and repeat 2 to 8 of STEP 3 Configure Network.

Wired	
Wired	

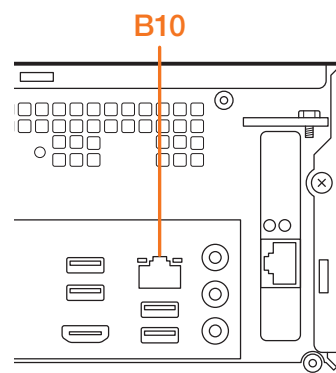
12. Click on the DNS Servers field box and enter DNS server address.

DNS servers:

13. Click Save.

14. Connect a network cable from B10 Ethernet port on the diagram (page 2) to the switch connecting to the local network.

15. Verify the network is Connected.



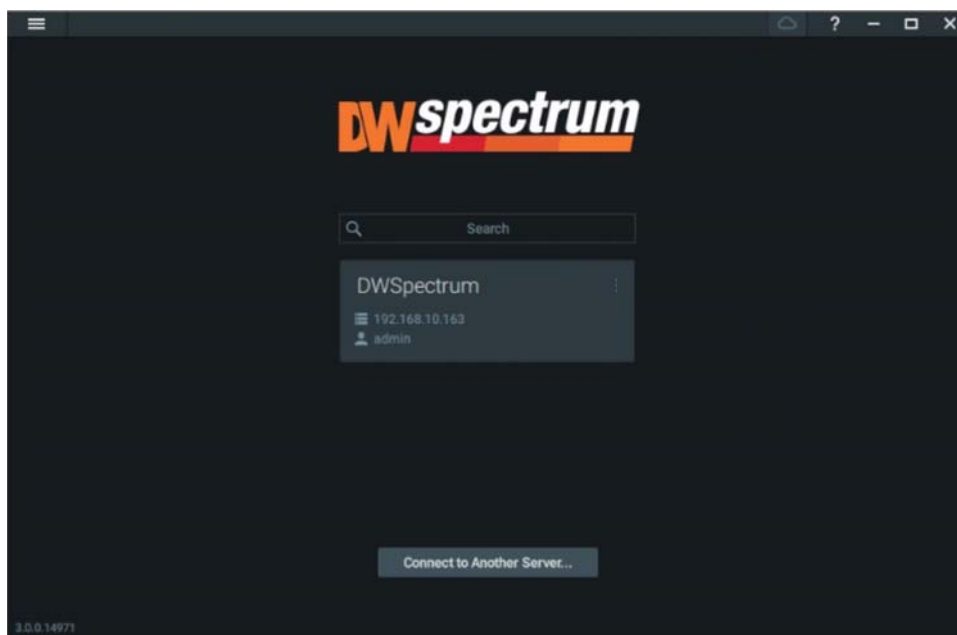
NOTE If you are not connecting to the Blackjack® from within the same network, you may be required to perform port forwarding on your router to access the server. Contact your Network Administrator or Installer for additional information

SETTING UP DW SPECTRUM® MEDIA SERVER

Login : admin
Password : admin1234

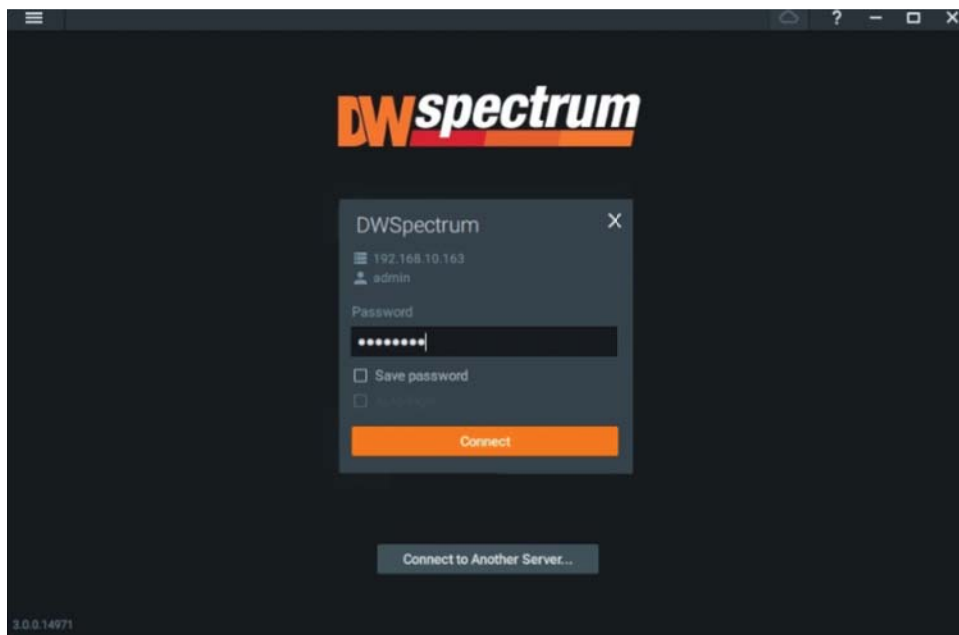
STEP 1: Initial run from Blackjack® server

1. Open DW Spectrum® Client by double click on the DW Spectrum icon
2. Click on the preconfigured server.



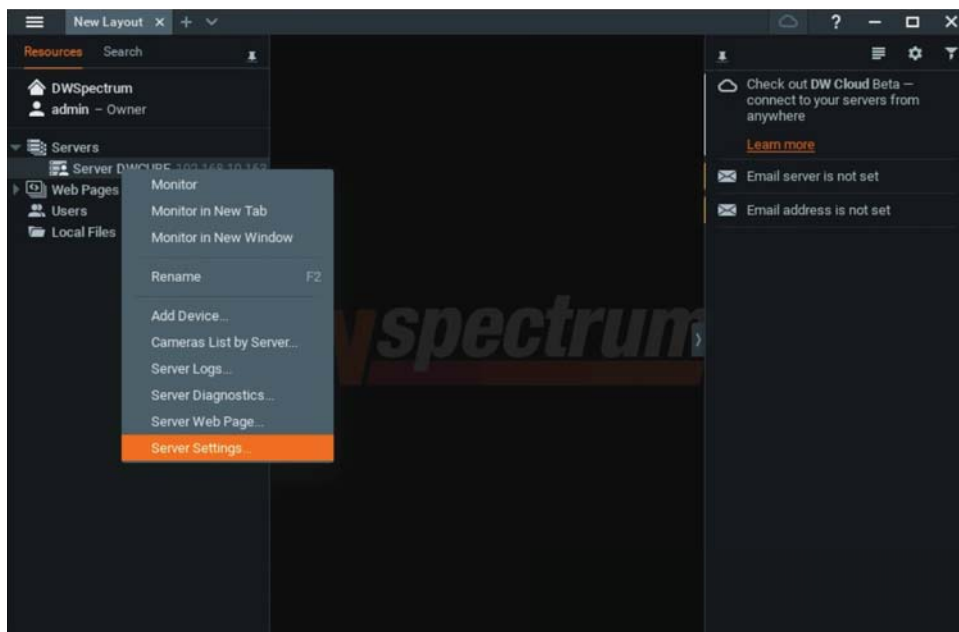
3. Enter password and click connect.

* Default password : **admin1234** (case sensitive)

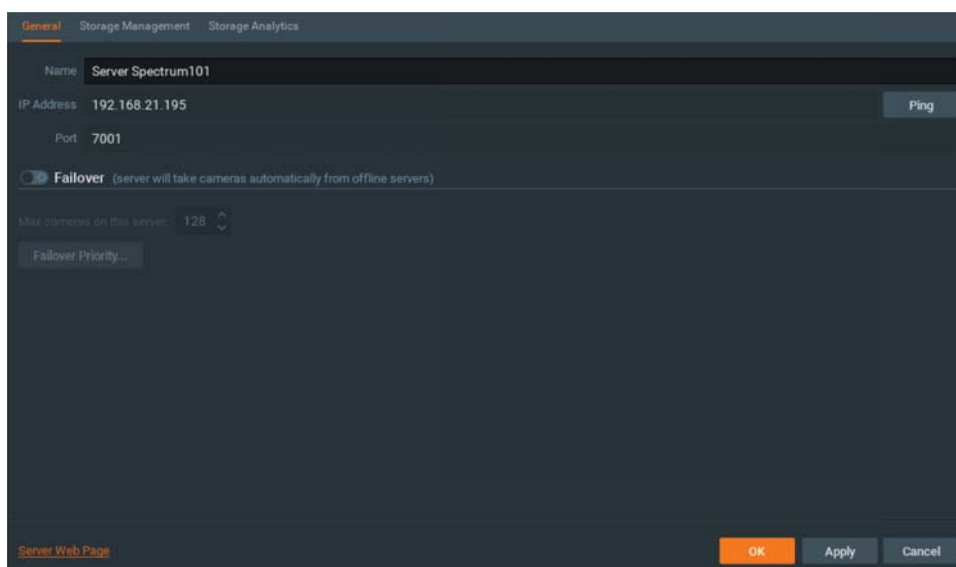


STEP 2: To rename the server

1. Right click on the server name listed on the Resources then click Server Settings.

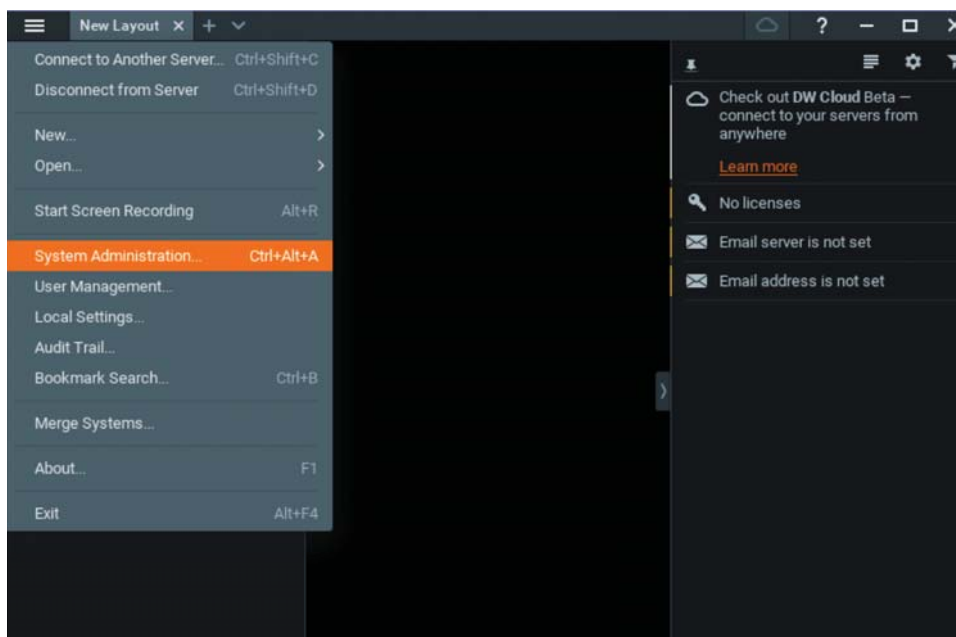


2. Go to General tab, then type in the new server name in the Name field and click OK.

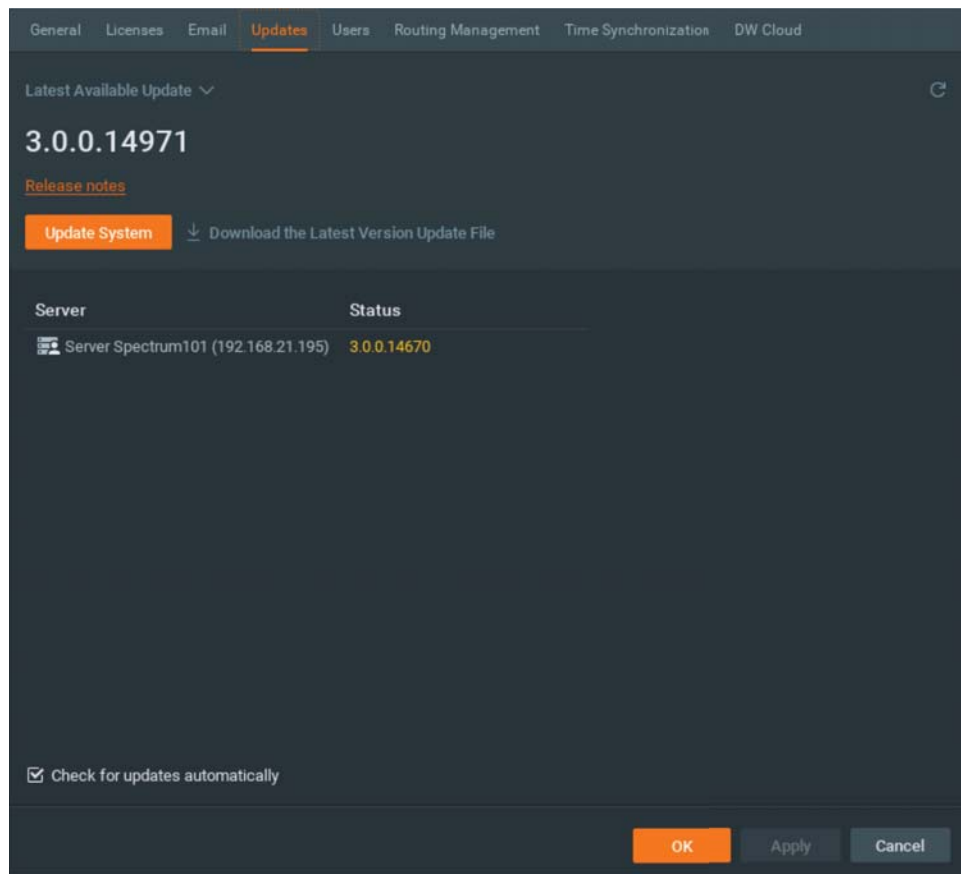


STEP 3: To check for update

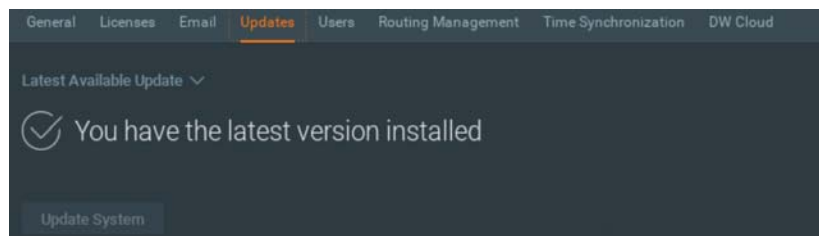
1. Click on the menu  then click System Administration.



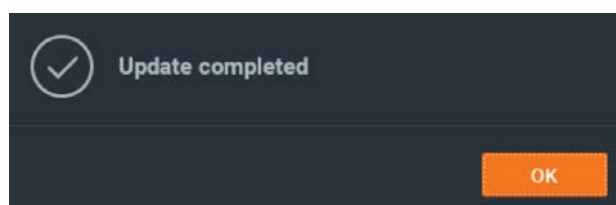
2. Go to Updates tab. Click Update System if turned orange.



- * If you are on the latest version, it will say "You have the latest version installed" and the Update System button will be greyed out.



3. Click OK when update is completed.



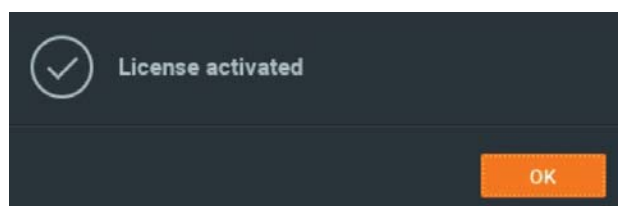
STEP 4: Enter License

1. Go to System Administration then click License tab.
2. Enter License Key then click Activate License button. (Internet connection required)

* Click on Activate Trial License if you have not purchased the valid license.

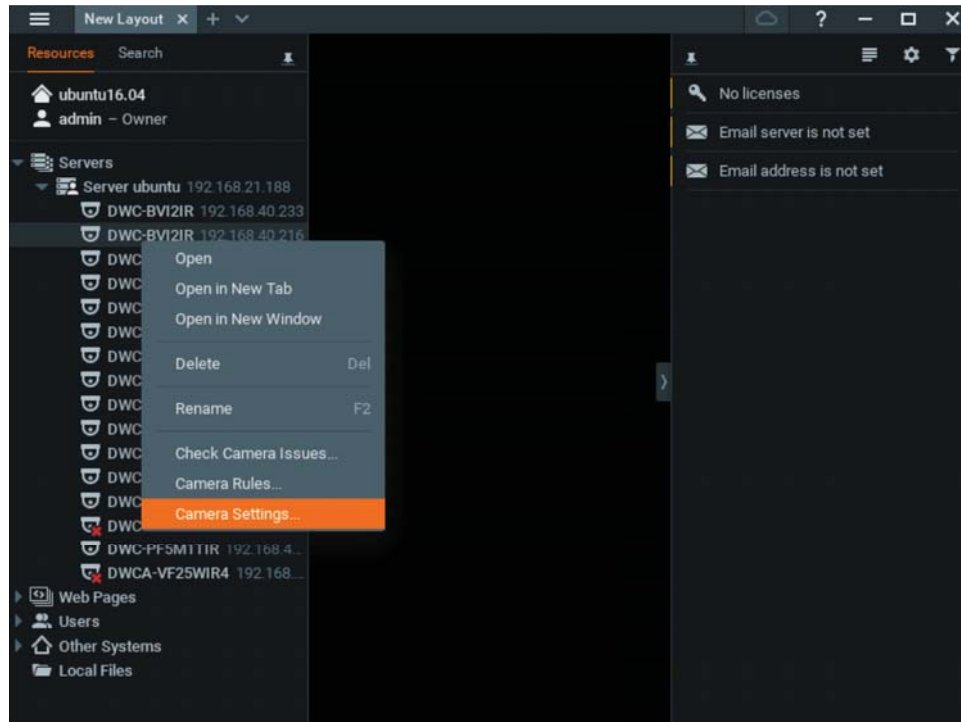
The screenshot shows the 'New License' dialog box. At the top, there is a navigation bar with tabs: General, Licenses (selected), Email, Updates, Users, Routing Management, Time Synchronization, and DW Cloud. Below the navigation bar, a red banner states: 'You do not have a valid license installed. Please activate your commercial or trial license.' The main section is titled 'New License' and has two tabs: 'Internet Activation' (selected) and 'Manual Activation'. Under 'Internet Activation', there is a 'License Key' input field containing 'FADI-FHHF-9LCB-MXD0' and a 'Paste from Clipboard' button. Below the input field are two buttons: 'Activate License' (orange) and 'Activate Trial License' (gray). At the bottom right of the dialog are three buttons: 'OK' (orange), 'Apply' (gray), and 'Cancel' (gray).

3. Click OK to when the License is activated.

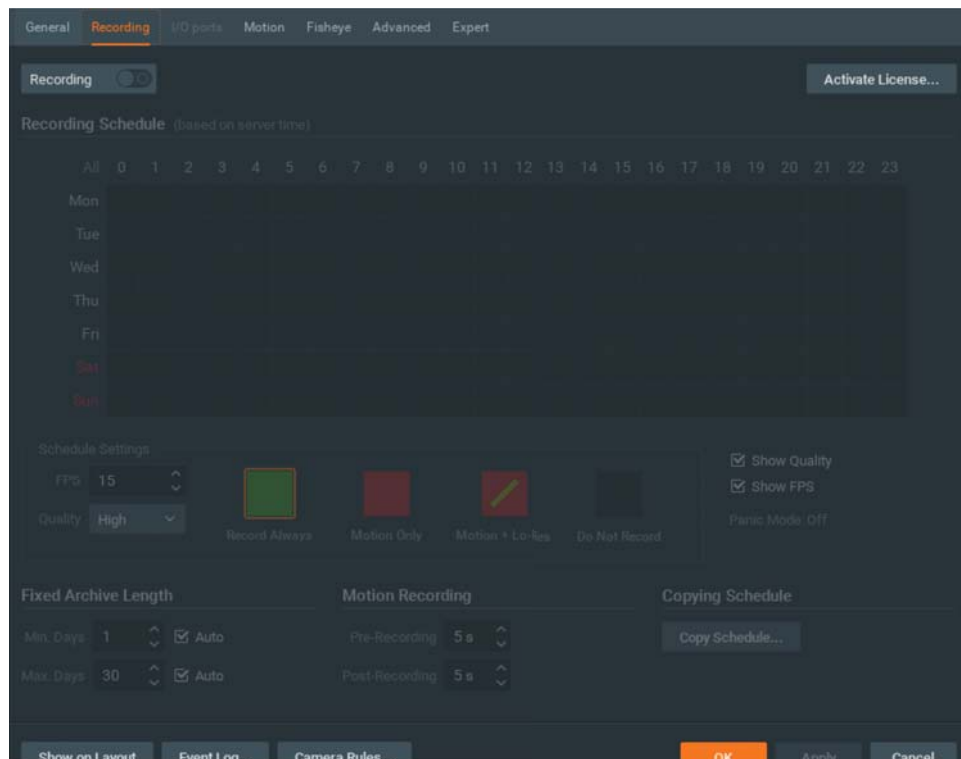



STEP 5: Configure recording

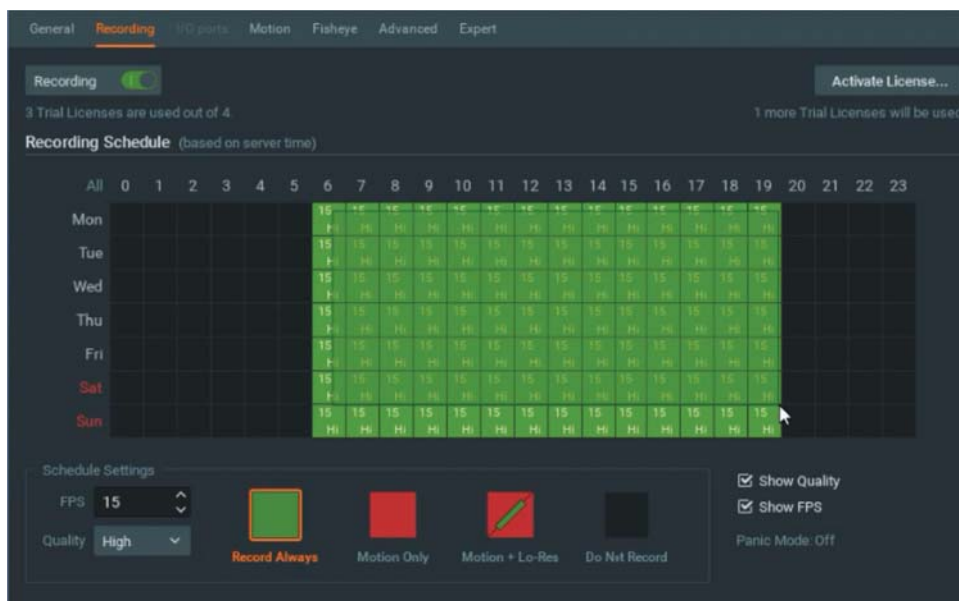
1. Right click on the camera to setup recording, then click Camera Settings.



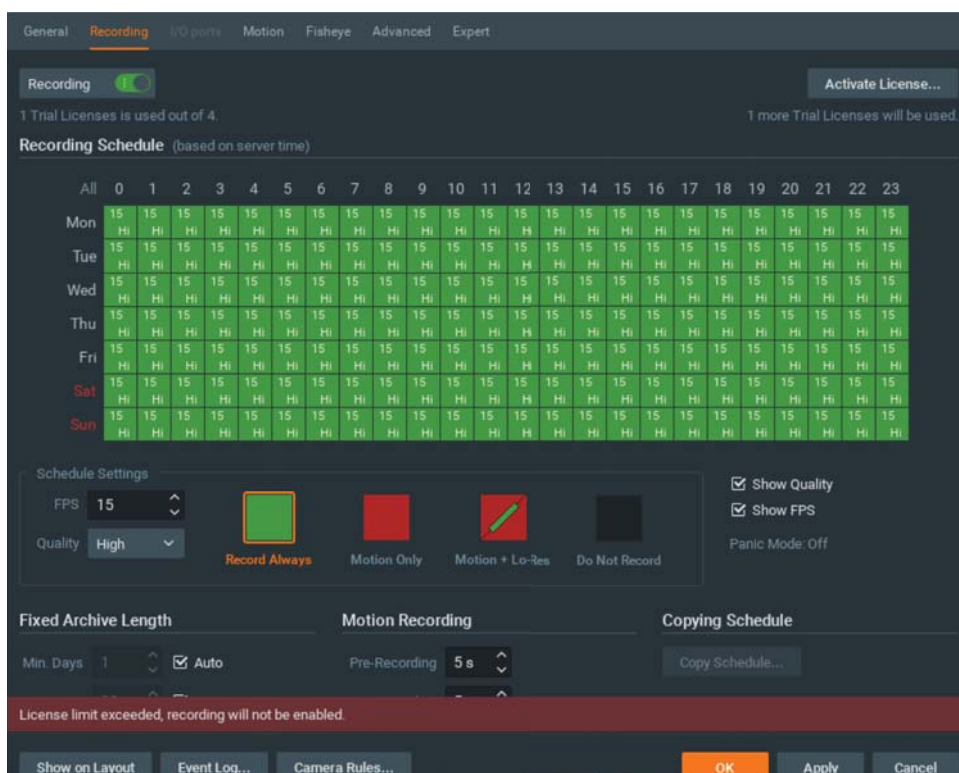
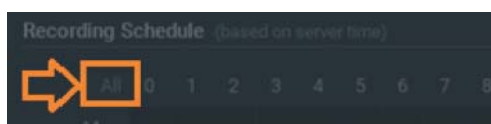
2. Go to Recordings tab.



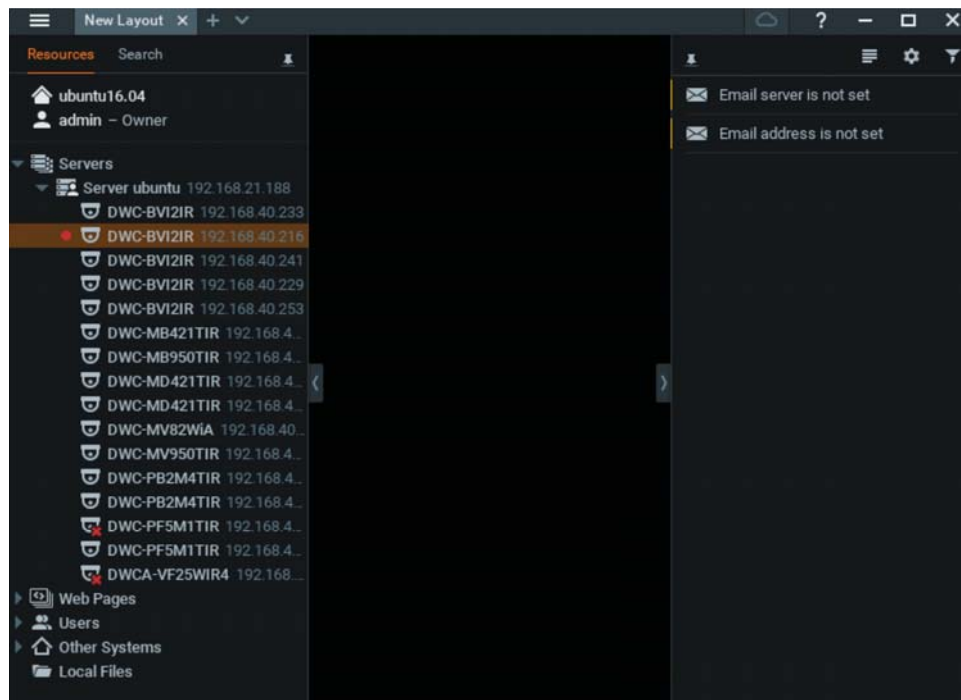
3. Click **Recording**  to turn on recording.
4. Configure Schedule Settings for Quality, FPS and Recording Type.
5. Click and drag mouse over the Recording Schedule to assign the recording setting.



- * Click on All to apply to the all schedules.

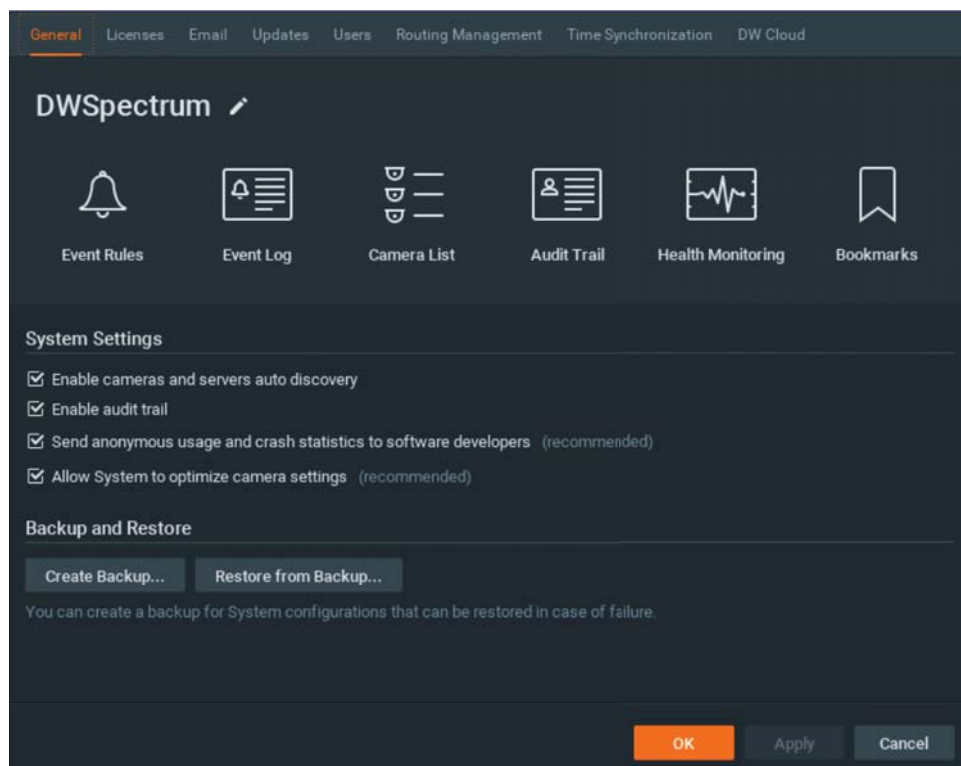


- Red dot will appear next to the camera when the recording is started.

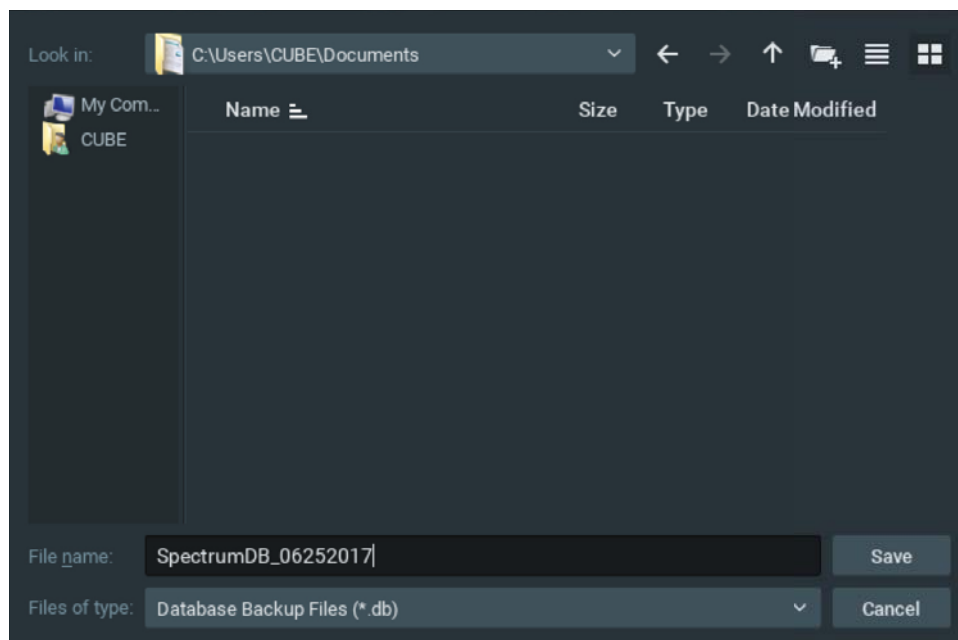


STEP 6: Backup Database

- Go to System Administration and click General tab.



2. Click Create Backup... button.
3. Navigate to the folder where to save and enter name of the backup file then click save.
 - * Strongly recommend to also backup to the external storage media.





NOTE: More information and instructions are available in the Spectrum 3.0 Manual.

TROUBLESHOOTING TIPS

Problem	Possible Solutions
My camera does not auto-discover	<ol style="list-style-type: none"> 1. Is the camera in the same LAN network as the Media Server? 2. Is your camera compatible with DW Spectrum? (Refer to our website for full list of supported cameras.) 3. Is the camera updated to its latest firmware? 4. If your camera is integrated with DW Spectrum via ONVIF, make sure ONVIF is enabled on your camera. 5. Try adding the camera manually. 6. Try rebooting the server after installation. Allow up to 2 minutes for the server to map your network and detect all supported devices.
Videos are slow	<ol style="list-style-type: none"> 1. Are you accessing the same cameras from multiple clients? (LAN & WAN) 2. Do you have a Gigabit network? Check your network speed.
My camera appears disconnected	<ol style="list-style-type: none"> 1. Under camera settings, make sure the user name and password are correct. 2. Under the camera settings, use the 'Ping' button to make sure the camera is connected to the network properly. 3. If you can connect to the camera's web viewer, try rebooting the camera and/or restore it to factory default. 4. Make sure your camera is using the latest firmware available. 5. Make sure that the camera is connected to the same network as the server. 6. If you are connecting to a camera that is integrated with DW Spectrum via the ONVIF protocol (see list), make sure ONVIF is enabled. 7. Make sure your user has permissions to view that specific camera.
I can't get playback video from my camera	<ol style="list-style-type: none"> 1. Do you have network connection between client and server (in case server and client are not on the same machine)? 2. Make sure your user has playback viewing permissions for the selected channel. 3. Make sure the camera is set to a recording mode that would provide recorded video for the selected time and environment. 4. On the server side, check the media server log to make sure the camera you are trying to watch has not been unexpectedly disconnected.
I get an 'unauthorized' message on my camera	<ol style="list-style-type: none"> 1. Make sure the camera's user name and password are properly entered in the camera's general information under the camera settings menu. 2. If necessary, try rebooting the camera to apply the camera's user name and password.

SYSTEM REQUIREMENTS

Recommended Specs for the Full Client

 Windows 7  Linux OS	Processor	Intel Core i5 or greater	
	Video Card	Intel HD Graphics 2500 (or higher) with 1GB Dedicated Memory	
	Resolution	1920 x 1080	
	RAM	4GB	
	NIC	10 / 100 / 1000 Base-T Ethernet	
	OS Supported – Media Server	Windows	7 Standard, 7 Pro, 7 Ultimate, 8/8.1 Pro, 8.1 Enterprise, 10 Pro/Enterprise
		Windows Servers*	Any versions of 2008, any versions of 2008 R2, any versions of Server 2012, any versions of Server 2012 R2
		Linux	Ubuntu 14.04, Ubuntu 16.04
	OS Supported – Client	Windows	7 Home, 7 Standard, 7 Pro, 7 Ultimate, 8/8.1 Standard, 8/8.1 Pro, 8.1 Enterprise, 10 Home/Pro/Enterprise**
		Windows Servers*	Any versions of 2008, any versions of 2008 R2, any versions of Server 2012, any versions of Server 2012 R2
		Linux	Ubuntu 14.04, Ubuntu 16.04
		Mac	OSX 10.11, OSX 10.12

* Except Storage Server version

** For Windows 10, recommend 6th Generation Intel i3/i5/i7 processors with 16GB RAM and video card with 1GB or higher RAM

Important: OS not listed will not be supported by DW™ Tech Support

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