Blackjack® *BOLT*

Servers Powered by DW Spectrum® IPVMS

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

Blackjack® Bolt™ — Up to 16 2.1MP/1080p cameras (true HD resolution)

DW-BJBOLT2T-LX	DW-BJBOLT4T-LX	DW-BJBOLT6T-LX	DW-BJBOLT8T-LX	DW-BJBOLT12T-LX	DW-BJBOLT16T-LX

Default Login Information for DW Spectrum® IPVMS		Default login information for the server's OS	
Username: **admin**	Password: **admin12345**	Username: **dwuser**	Password: **Dw5pectrum**

WHAT'S IN THE BOX					
Bolt™ server		1	Keyboard and mouse		1 set
Quick start guide		1	Power cable		1 set

NOTE: Download all your 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 setup.
See the DW Spectrum® IPVMS full manual for more information on features and functionality.

BLACKJACK® BOLT HARDWARE

F4   F3   F5
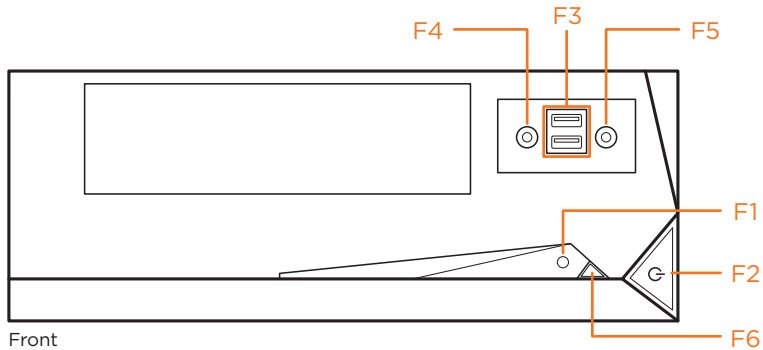
F1   HDD LED
F2   Power button / Power LED
F3   USB 2.0 port
F4   Microphone jack
F5   Headphone jack
F6   Reset button

F1
F2
F6

Front

B12   B11   B10
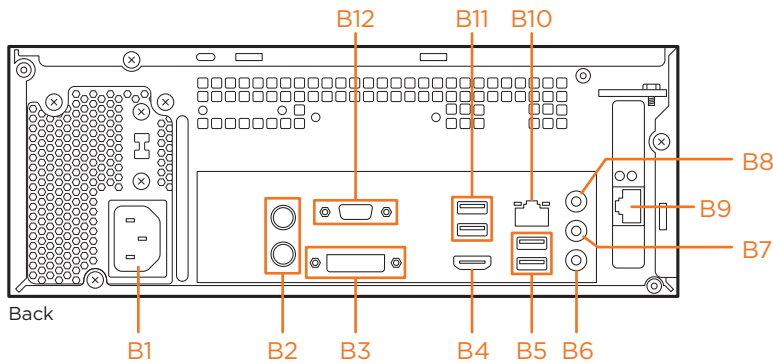
B1   AC power socket
B2   PS/2 keyboard and
      PS/2 mouse ports
B3   DVI-D port
B4   HDMI port
B5   USB 2.0 ports
B6   Mic in (pink)
B7   Line out (green)
B8   Line in (blue)
B9   Ethernet port to the camera network
B10   Ethernet port to the local network
B11   USB 3.0 ports
B12   D-Sub port

B8
B9
B7

Back

B1   B2   B3   B4   B5   B6

Default Login Information for DW Spectrum® IPVMS

| Username: **admin** | Password: **admin12345** |

Default login information for the server's OS

| Username: **dwuser** | Password: **Dw5pectrum** |

WARNING   For an optimal system configuration, it is recommended that a UPS (Uninterrupted Power Supply) be used to power the setup.
Dual monitors are not recommended due to CPU performance. To connect two monitors to the server, go to the display setup to activate the second monitor.

SPECIFICATIONS

| MODEL		Blackjack® Bolt™
Included IP licenses		4
Form factor		Slim desktop
Operating system		Linux® Ubuntu®
CPU		Intel® quad-core™ processor
Memory		8GB
NIC		2x gigabit Ethernet (RJ45)
System	Max. video storage rate (Mbps)	80 Mbps
Storage	Maximum hard drives	2 x HDD
	Maximum storage	16TB
Video-out	Outputs	True HD output, DVI or D-Sub port
	Resolution	HD 1080p
Pre-loaded VMS software		DW Spectrum® IPVMS
Unlimited remote clients		Cross platform - Windows®, Linux® and Mac®
Mobile apps		iOS® and Android®
Keyboard and mouse		Included
Power		200W **
Operating temperature and humidity		41°F-104°F / 20-90% RH
Dimension (WxDxH) (inches)		3-7/8" x 14" x 10-3/8" (standing) 10-3/8" x 14" x 3-7/8" (desktop)
Warranty		5 year limited

** UPS Recommended
Specifications and components mentioned are subject to change without notice.

SETTING UP THE SERVER

STEP 1: **Connect external devices, power and network.**

1. Connect a monitor, USB keyboard, USB mouse and network cable to one of the Ethernet ports (B9 on the diagram). Configure the camera's network first, then configure the server's local network.

B9
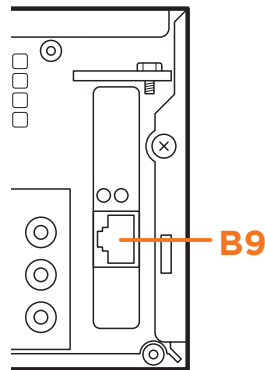
2. Connect the server to an appropriate power source. It is recommended to use a 750VA or higher UPS system.

3. Power up the server if the server does not turn on automatically by pressing the power button on the front of the server. (F2 on the diagram).

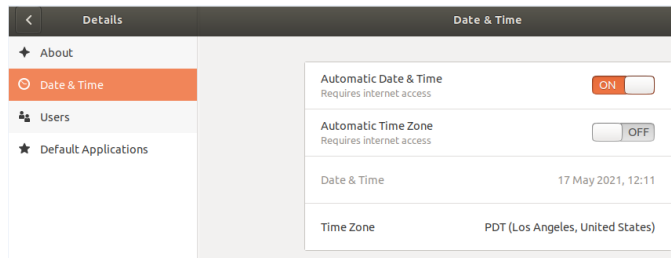   * Connecting the power cable to the live power source may turn on the server automatically.

Blackjack BOLT

UPS System

Monitor

Keyboard

Mouse

Camera Network POE Switch
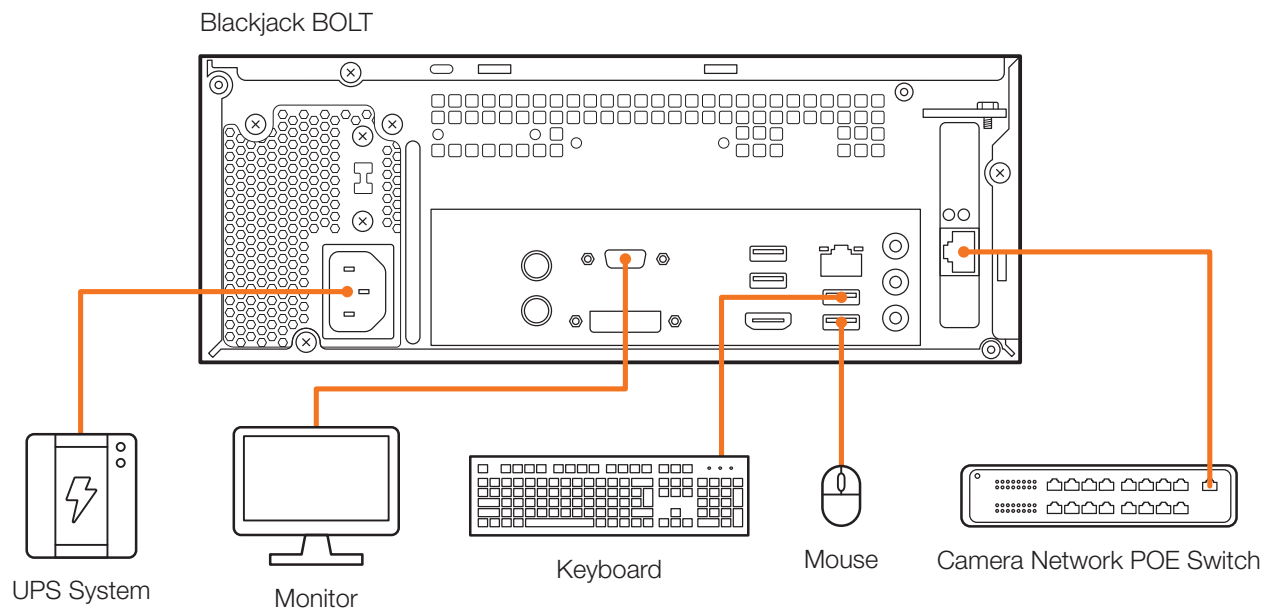
STEP 2: **Configure date and time**

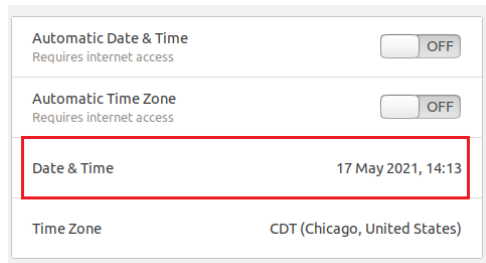1. Open settings > Details
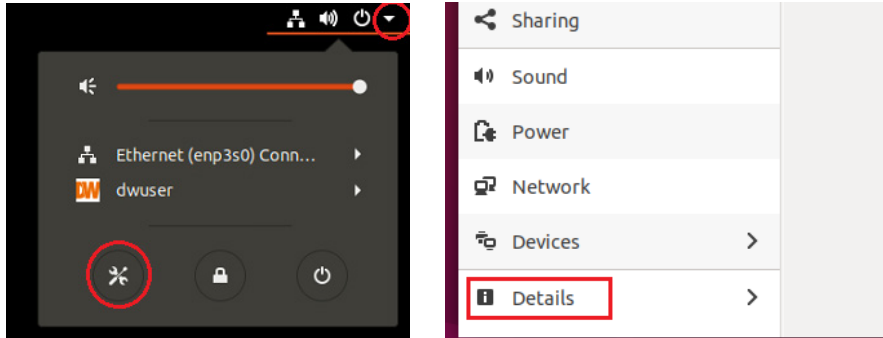
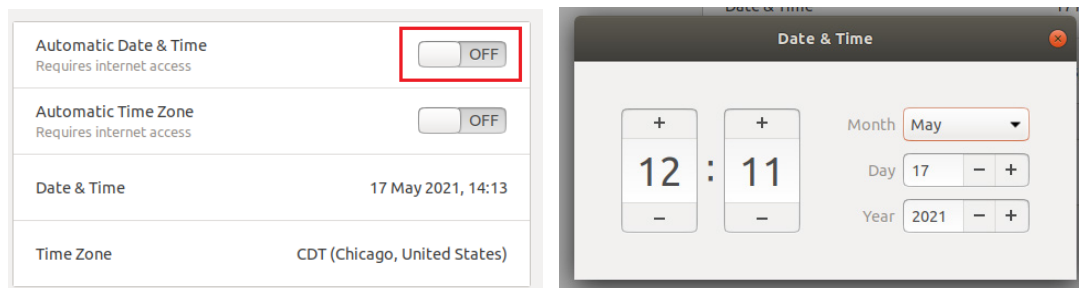3. Click Date &Time

4. Turn OFF Automatic Date & Time and Automatic Time Zone

5. Click Date & Time and set correct date and time

6. Click Time Zone and set to correct Time zone. (type one of the largest cities in the time zone)

4

7. Close Settings.

STEP 3: **Configure network**

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

	Camera network	Local network (LAN)
IP address		
Subnet mask / Netmask		
Default gateway / Gateway	Not applicable	
DNS servers	Not applicable	

* Camera network and local network cannot be on the same network.

> **NOTE** The Blackjack® server's network settings are set to DHCP as default.

> **NOTE** If you are not sure what information to enter, contact your Network Administrator or Internet Service Provider for the information.
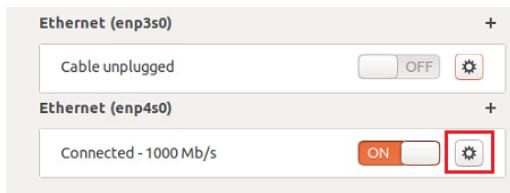
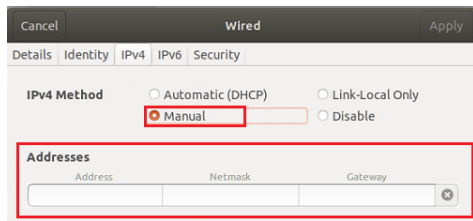1. Open Settings
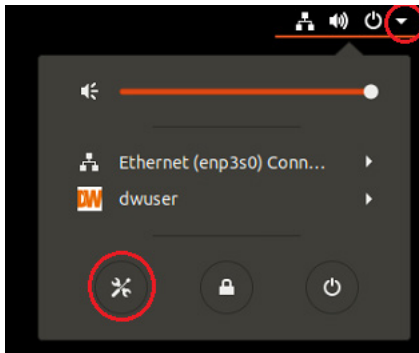
2. Open Network

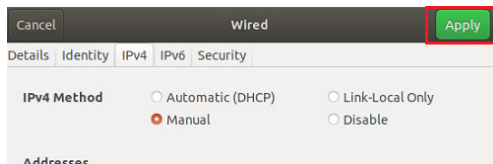

3. Click Setting of the Ethernet that is Connected

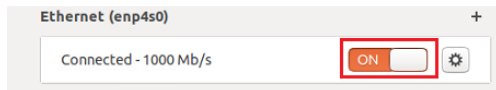4. Change to Manual then enter Address, Netmask , Gateway.

* Do not enter Gateway information if there is no Gateway in this network.
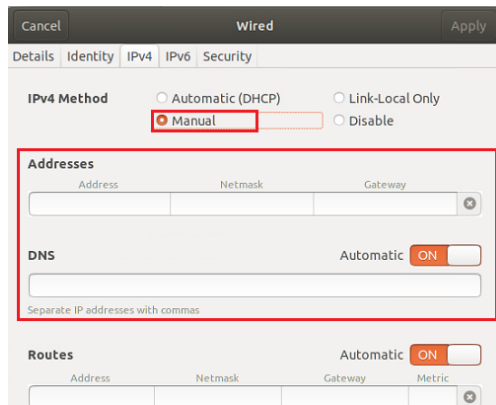

5. Click Apply to save

6. Restart the connection by switching OFF then turn ON.
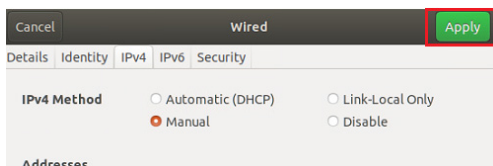

7. Click Settings of the Ethernet not connected.

8. Change to Manual then enter Address, Netmask, Gateway then DNS.

9. Click Apply to save

10. Connect the network cable and verify the connection.

NOTE If you are not connecting to the Blackjack® from 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
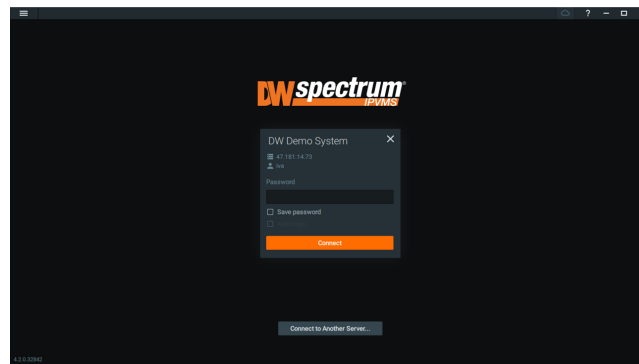
Login: **admin**
Password: **admin12345**

STEP 1:   **Initial run from the Blackjack® server**

1. Open the DW Spectrum® client by double click on the DW Spectrum® icon.

2. Click on the pre-configured server.
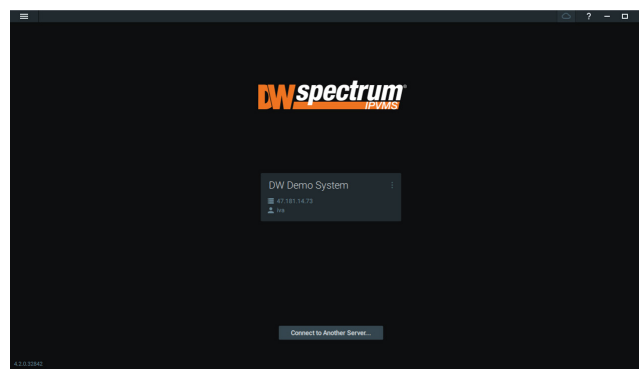
3. Enter the password and click connect.
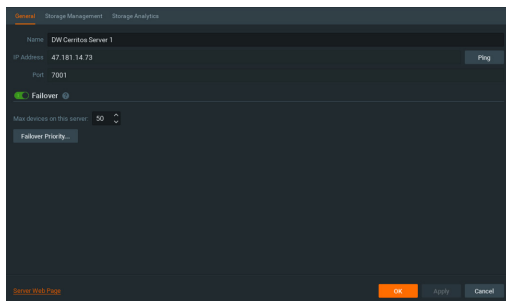
    * Default password: admin12345 (case sensitive).

STEP 2:   **To rename the server**

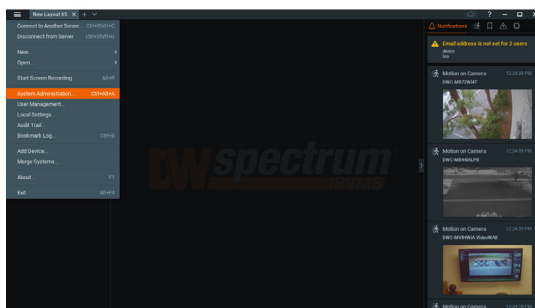1. Right-click on the server name listed on the resources then click server settings.

2. Go to the general tab and enter the new server name in the name field. Click OK.
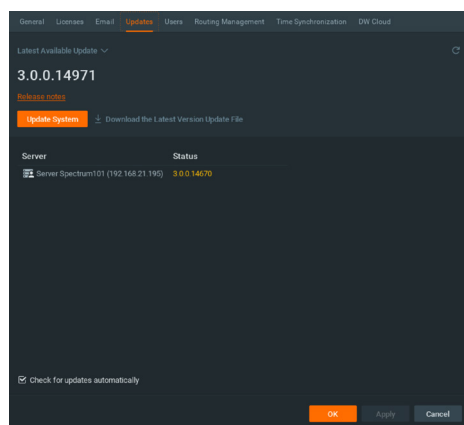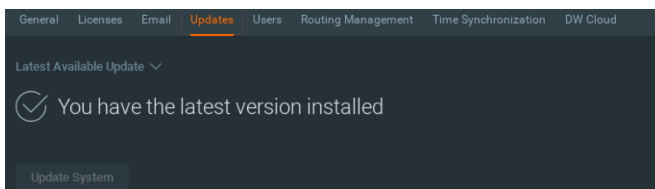

STEP 3: **To check for updates**

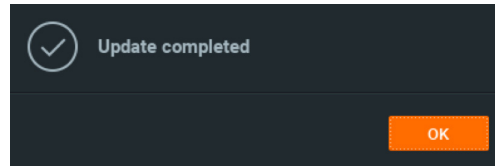1. Click on the menu ☰ then click "System Administration".

2. Go to the updates tab. If the system requires updating, click on the update system button.

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

3. Click OK when the update is completed.

STEP 4:   **Enter and activate licenses**

1. Go to the system administration window and click on the license tab.

2. Enter the license key and click "Activate License". An Internet connection is required.

    * Click on "Activate Trial License" if you have not purchased a valid license key.
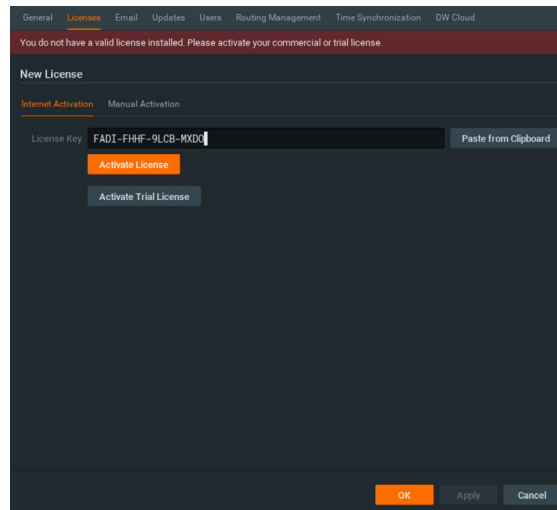
3. Click OK to when the license key is activated.
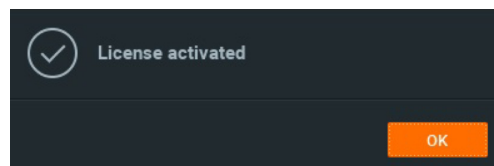
STEP 5:   **Configure recording**

1. Right-click on a camera in the resource tree to setup recording. Click on camera settings from the context menu.

9
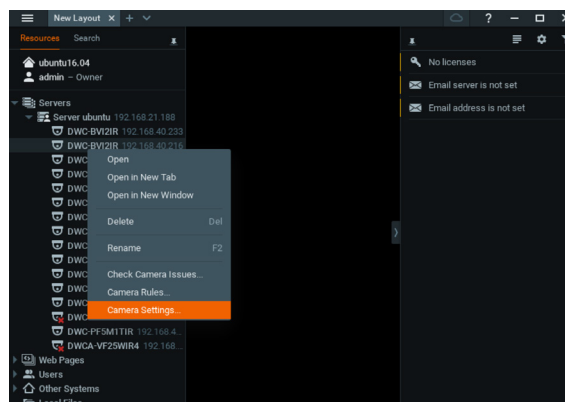
2. Go to the recordings tab.
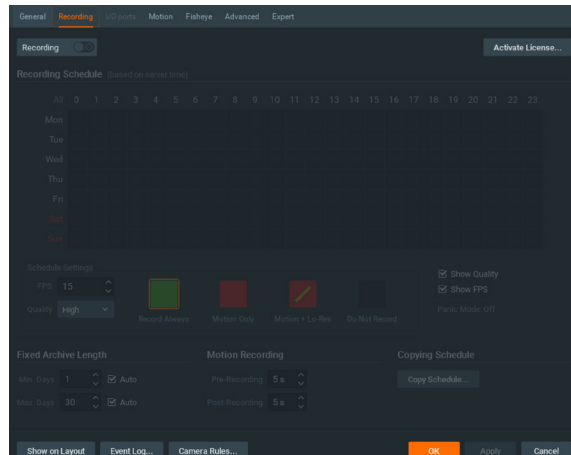
3. Click [Recording] to turn on recording.

4. Configure the camera's schedule settings for quality, FPS and recording type.

5. Click and drag the mouse over the recording schedule to apply the settings to multiple days and times.
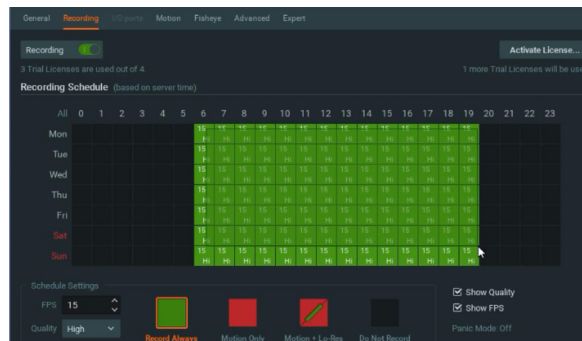
* Click "All" to apply the recording settings to the entire schedule.
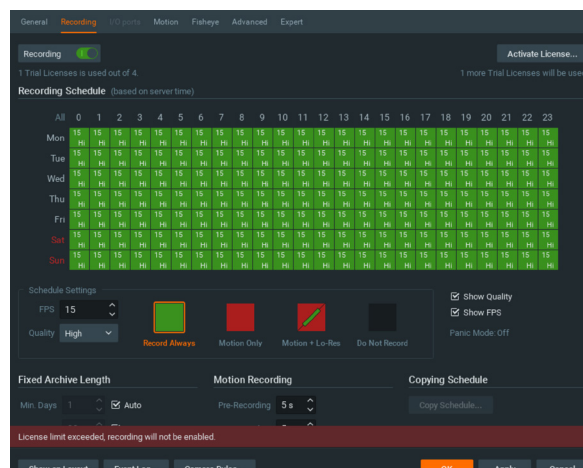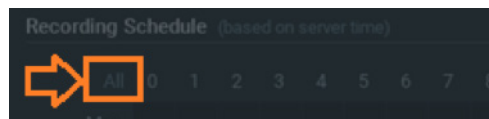
6. A red dot will appear next to the camera in the resource tree once recording is started.
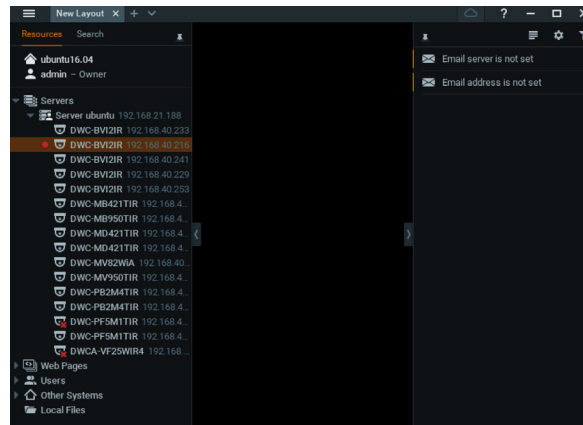
Backup database

1. Go to the system administration window and click on the general tab.
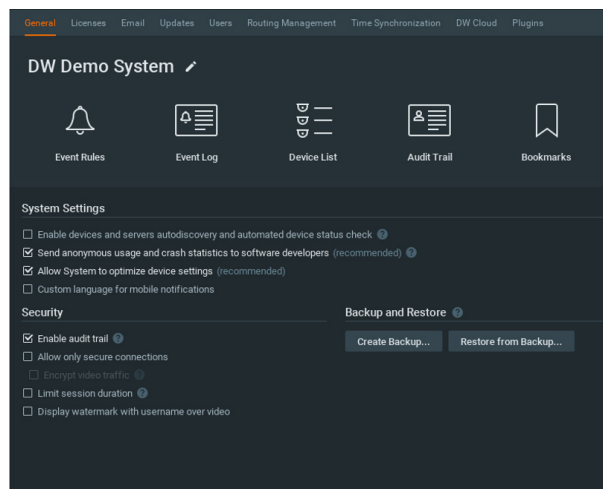
2. Click "Create Backup…".

3. Navigate to the folder you want to save the database and enter a name for the backup file. Click save.

   * It is strongly recommend to backup your data to an external storage media as well.

NOTE: More information and instructions are available in the
DW Spectrum® IPVMS user manual.

TROUBLESHOOTING TIPS

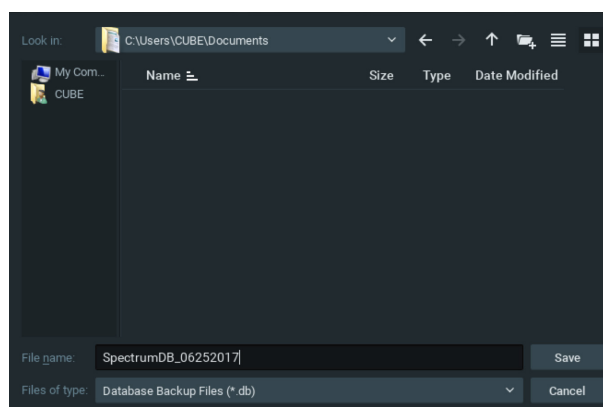| Problem	Possible solutions
My camera does not auto-discover	1. Is the camera in the same LAN network as the media server? 2. Is your camera compatible with DW Spectrum®? (Refer to our website for full list of supported cameras.) 3. Is the camera updated to its latest firmware? 4. If your camera is 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	1. Are you accessing the same cameras from multiple clients? (LAN and WAN) 2. Do you have a Gigabit network? Check your network speed.
My camera appears disconnected	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 cannot get playback video from my camera	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	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.

DW SPECTRUM SYSTEM REQUIREMENTS

Recommended specs for the full client

	Single-monitor DW Spectrum workstation	Dual-monitor DW Spectrum workstation	Quad-monitor DW Spectrum workstation
Processor	Intel i5 8th gen or AMD Ryzen 5 3000 Quad-Core or better	Intel i7 8th gen or AMD Ryzen 7 3000 Quad-Core or better	Intel i9 or AMD Ryzen 9 Quad-Core or better
Video card	Intel HD Graphics onboard GPU or better	Intel HD Graphics onboard GPU or better	GeForce GTX 1650 or better
RAM	8 GB DDR3 1600 MHz or better	16 GB DDR3 1600 MHz or better	32 GB or better
NIC	1Gbps or better	2 x 1 Gbit or better	2 x 1 Gbit or better
Storage	Dedicated SSD or NVME disk for the OS, 128 GB or larger	Dedicated SSD or NVME disk for the OS, 128 GB or larger	Dedicated SSD or NVME disk for the OS, 128 GB or larger
OS supported	**Microsoft Windows OS** • Windows 8 – Released: October 2012 | EoS: 01/2023 • Windows 8.1 – Released: October 2013 | EoS: 01/2023 • Windows 10 – Released: July 2015 • Windows Server 2012 – Released: August 2012 | EoS: 10/2023 • Windows Server 2012 R2 – Released: October 2013 | EoS: 10/2023 • Windows Server 2016 – Released: October 2016 | EoS: 01/2027 • Windows Server 2019 – Released: October 2018 | EoS: 01/2029 **Ubuntu (Debian-based Linux) OS** Ubuntu 16.04 LTS "Xenial Xerus" – Released: April 2016 | EoS: 04/2024 Ubuntu 18.04 LTS "Bionic Beaver" – Released: April 2018 | EoS: 04/2028 **Macintosh OS** • macOS 10.14 "Mojave" – Released: September 2018 • macOS 10.15 "Catalina" – Released: October 2019 • macOS 11.0, 11.1, 11.2 "Big Sur" – Released: November 2020 **NOTE: DW Spectrum IPVMS for macOS is only supported by the DW Spectrum Client.		

* Except Storage Server version

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

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DW DIGITAL WATCHDOG®
Complete Surveillance Solutions

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