

Blackjack[®]TOWER[™]

Servers Powered by DW Spectrum[®] IPVMS

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

Blackjack[®] Tower[™] mid-size remote monitoring workstations

DW-BJMTC5204T

DW-BJMTC7404T



Default login for DW Spectrum[®] IPVMS

Username: **admin**


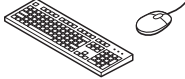

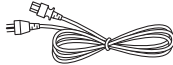
Password: **admin12345**

Default login for Windows[®]

Username: **dwuser**

Password: **Dw5pectrum**

WHAT'S IN THE BOX

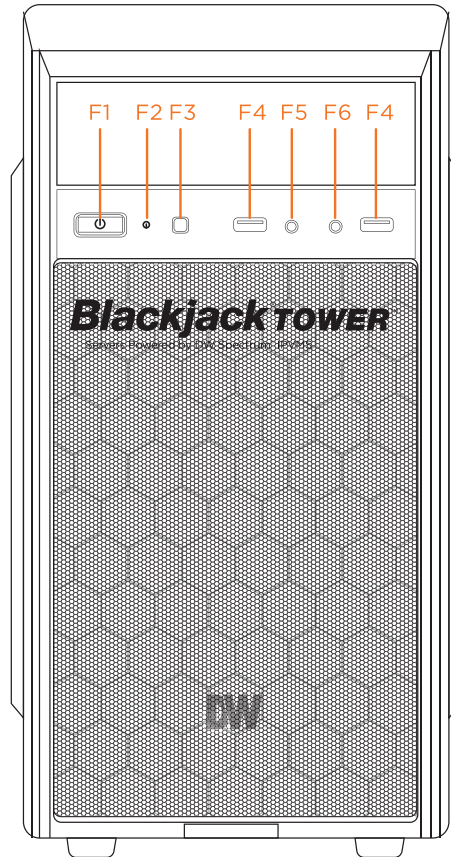
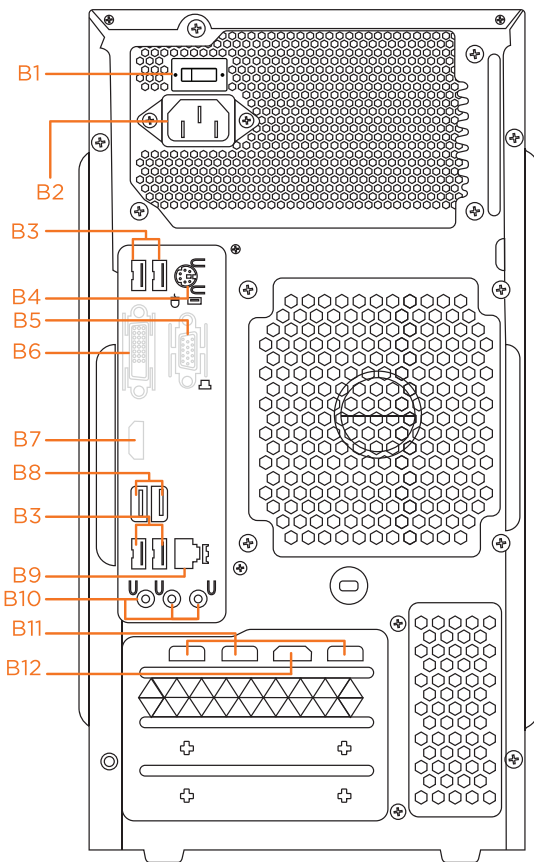
Blackjack Tower [™] server		1	Keyboard and mouse		1 set
Quick start guide		1	Power cable		1

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 setup.
See the DW Spectrum[®] full manual for more information on features and functionality.

BLACKJACK[®] TOWER[™] MONITORING WORKSTATION



- F1 Power button/LED
- F2 HDD LED
- F3 Reset button (not used)
- F4 USB 2.0 port
- F5 Audio output
- F6 Audio input

- B1 Power supply on/off switch
- B2 AC power socket
- B3 USB 2.0 ports
- B4 PS/2 keyboard/mouse port
- B5 VGA port (not used)
- B6 DVI port (not used)
- B7 True HD port (not used)
- B8 USB 3.0 ports
- B9 Network port (LAN/WAN)
- B10 Line in, line out and mic in
- B11 3x DisplayPort
- B12 True HD port

Default login for DW Spectrum[®] IPVMS

Username: admin	Password: admin12345
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Default login for Windows[®]

Username: dwuser	Password: Dw5spectrum
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SPECIFICATIONS

PART NUMBER	DW-BJMTC5204T	DW-BJMTC7404T
Form factor		Mid-Tower
Operating system		Windows [®] 10
OS on SSD		240GB SSD
CPU	Intel [®] i5 [®] processor	Intel [®] i7 [®] processor
Memory	16GB	32GB
Ethernet port		1 x 1G Ethernet
Video	Outputs	1 x true HD, 1 x DVI, 1 x Display Port or 1x true HD, 3x Display Port
	Simultaneous Outputs	Maximum any 2 ports simultaneously
	Video card	GTX1650 or comparable
	Resolution	7680x4320
Preloaded VMS software		DW Spectrum [®] IPVMS client
Remote clients		Cross-platform - Windows [®] , Linux Ubuntu [®] and Mac [®]
Mobile apps		iOS [®] and Android [®]
Keyboard and mouse		Included
Power supply	400W**	500W**
Operating temperature		41°F-104°F (5°C-40°C)
Operating humidity		20-90% RH
Dimension (W x D x H)		7.46" x 15.7" x 14.21" (189.52 x 398.8 x 631.02 mm)
Warranty		5 year limited

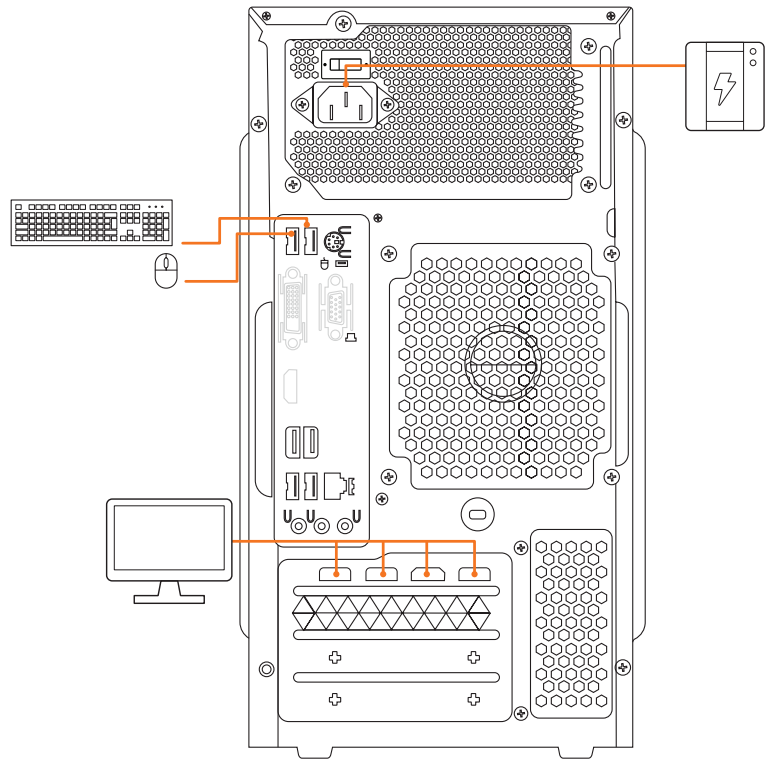
** UPS recommended

Specifications and components mentioned are subject to change without notice.

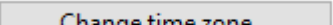
SETTING UP THE SERVER

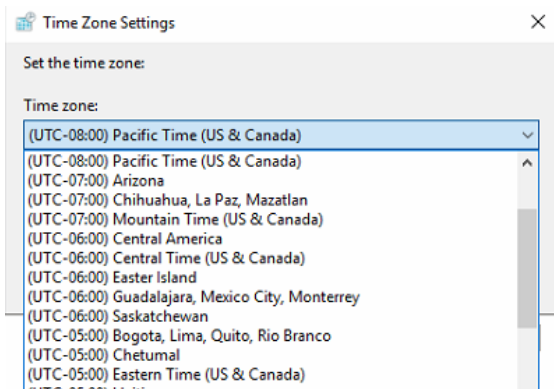
STEP 1: Connect external devices, power and network.

1. Connect a monitor, USB keyboard, USB mouse and network cable to one of the Ethernet ports (B11 on the diagram). Configure the camera's network first, then configure the server's local network.
2. Connect the server to an appropriate power source. It is recommended to use a UPS system.
 - * 750VA or higher is recommended.
3. Power up the server if the server does not turn on automatically by pressing the power button on the front of the server. (F1 on the diagram).
 - * Connecting the power cable to the live power source may turn on the server automatically.
 - * The power on/off switch must have the '-' pressed down.



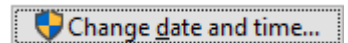
STEP 2: Configure date and time

1. Double-click on the date and time icon on the desktop.
2. Change time zone if it is not correct  (default is UTC-08:00 Pacific Time).

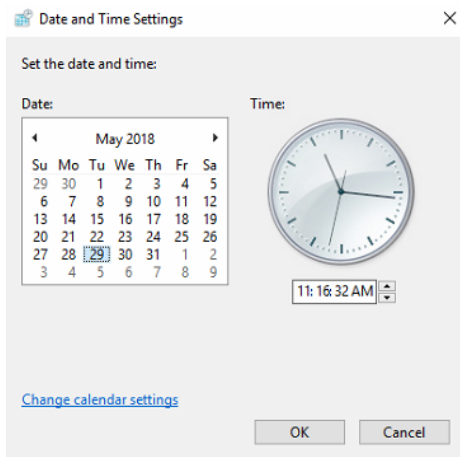


Press OK after selecting the correct time zone.

Click "Change date and time..." to update the date and time if they are not correct.



* Verify the time zone before updating the date and time. Time may show 2 or 3 hours off due to incorrect time zone.



Press OK after adjusting to the correct date and/or time.

4. Press OK to close the date and time when done.

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	

* The camera network and local network cannot be on the same network.

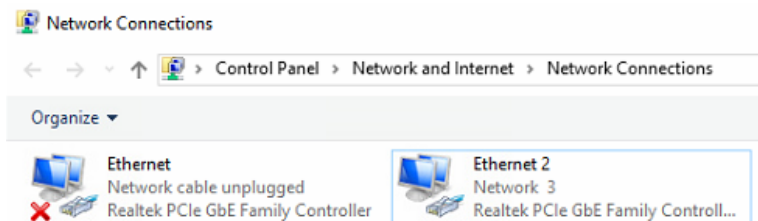
NOTE The Blackjack[®] server's network settings are set to DHCP as default.

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

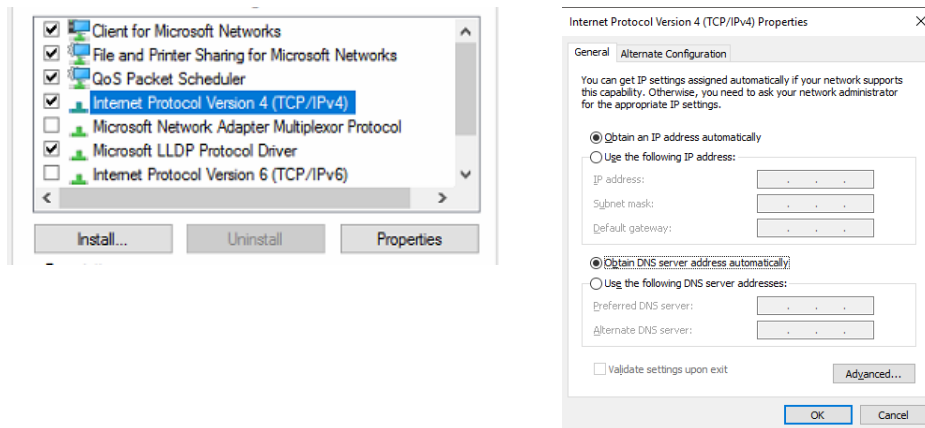
Windows[®]



1. Double click on the "Network Connections" on the desktop.
2. Right-click on "Ethernet with cable connected" and click "Properties".



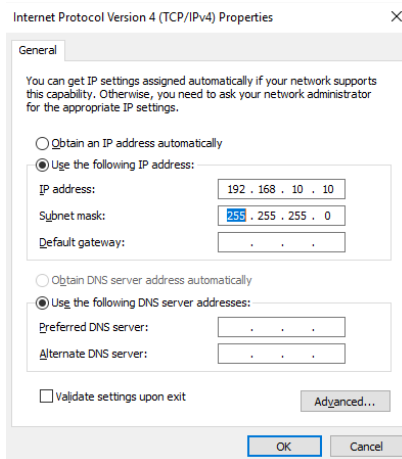
3. Select “Internet Protocol Version 4 (TCP/IPv4)” and click “Properties”.



4. Select “Use the following IP address” (Use the following DNS server addresses will be selected automatically).

5. Enter the IP address and Subnet mask of the camera network. (Do not enter anything for the default gateway, preferred DNS server and alternate DNS server).

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.

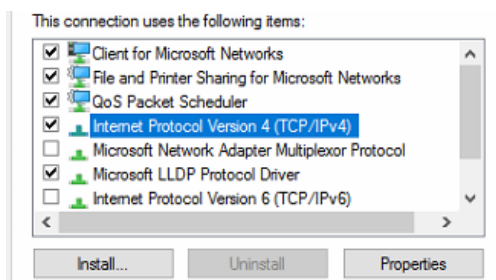


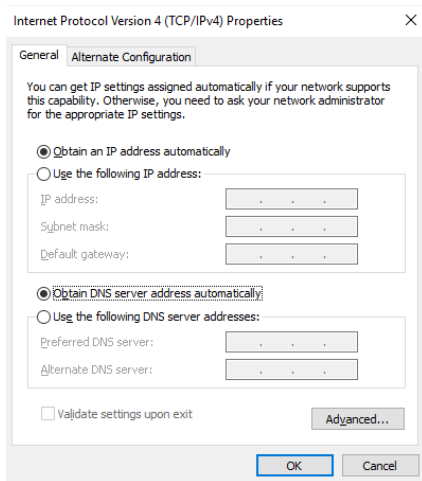
6. Click OK to close then click close to go back to network connections.

Local Network

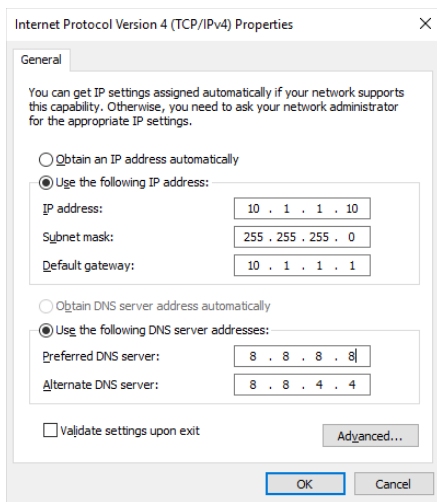
7. Right-click on the other Ethernet, the one with network cable unplugged, and click “Properties”.

8. Select “Internet Protocol Version 4 (TCP/IPv4)” and click “Properties”.

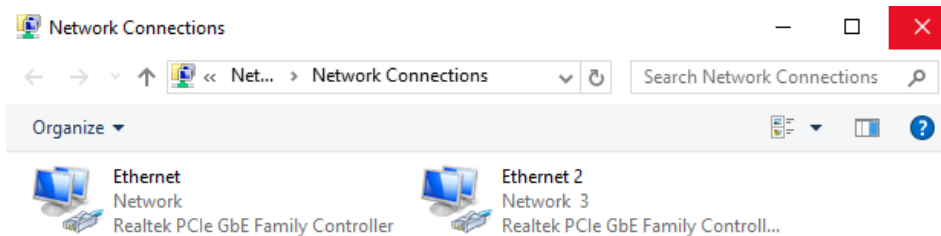




9. Select “Use the following IP address” (Use the following DNS server addresses will be selected automatically).
10. Enter the IP address and subnet mask of the camera network.



11. Click OK to close then click close to go back to network connections.
12. Connect a network cable to the Ethernet port B9 on the diagram (page 2) to the switch on the local network.
13. Close the network connections dialog.



CONFIGURE CAMERAS USING DW® IP FINDER™

Refer to the camera's QSG to configure any DW® IP camera's IP address using DW® IP finder™.

DW Spectrum® IPVMS client

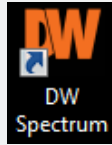


Windows

WINDOWS-BASED SOFTWARE MANUAL LAUNCH

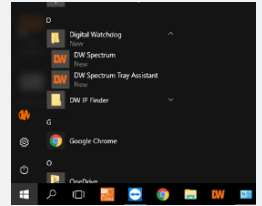
To launch the DW Spectrum® software on the Windows-based E-RACK:

OPTION 1: Double-click the DW Spectrum® desktop icon.



OR

OPTION 2: Go to 'Start' on the bottom left and select DW Spectrum® in the Digital Watchdog folder

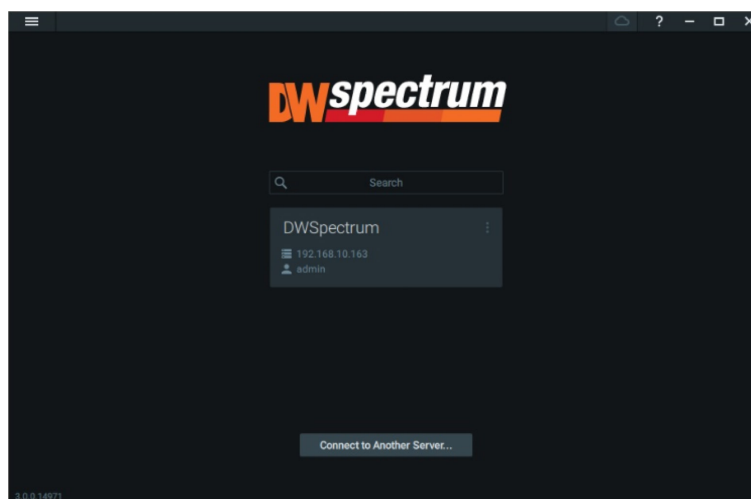


SETTING UP DW SPECTRUM® MEDIA SERVER

Login: **admin**
Password: **admin12345**

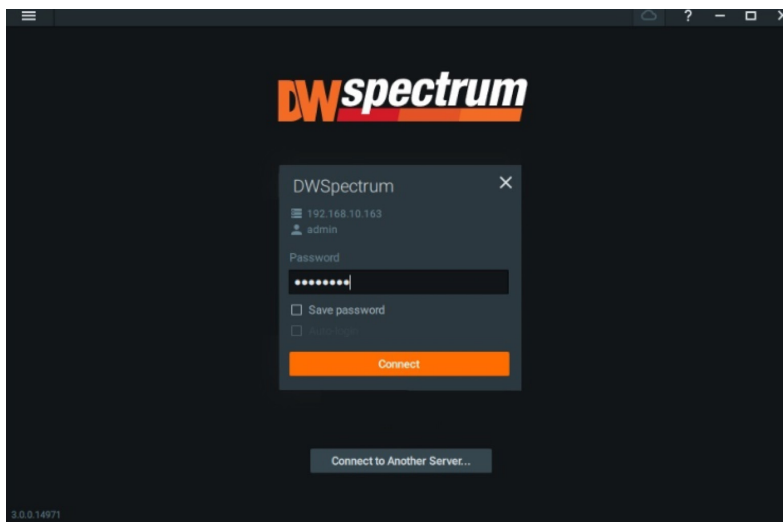
STEP 1: Initial run from the Blackjack® server

1. Open the DW Spectrum® client by double click on the DW Spectrum® icon.
2. Click on the pre-configured server.



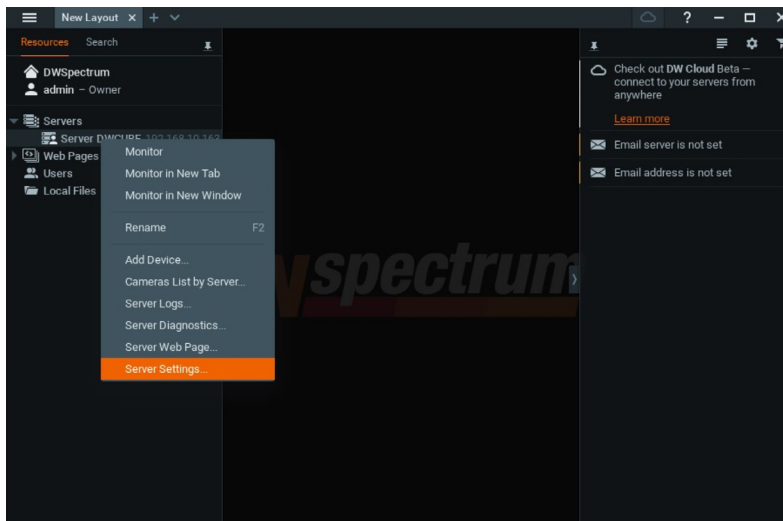
3. Enter the password and click connect.

* Default password: admin12345 (case sensitive).

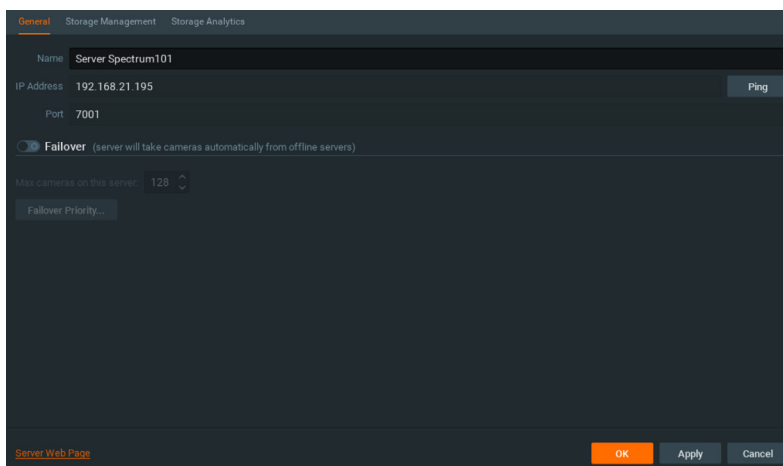


STEP 2: To rename the server

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

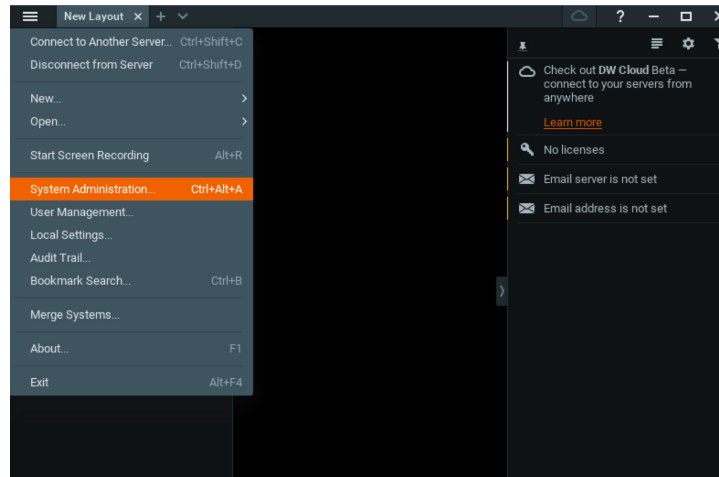


2. Go to the general tab and enter the new server name in the name field. Click OK.

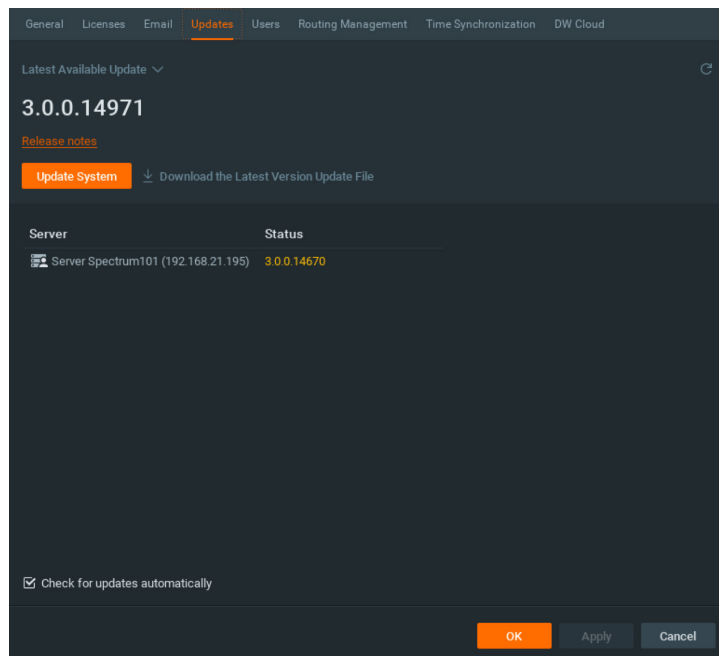


STEP 3: To check for updates

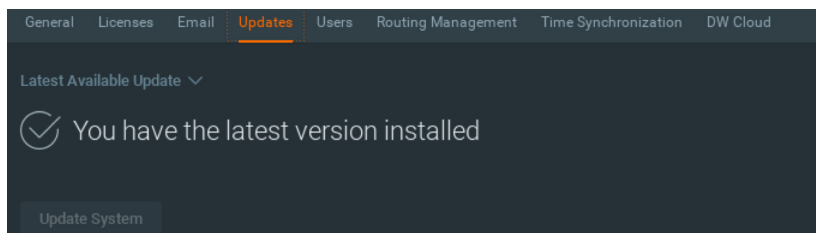
1. Click on the menu  then click “System Administration”.



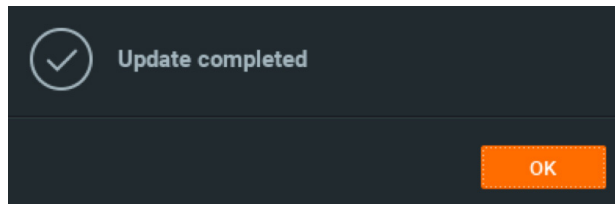
2. Go to the updates tab. If the system requires updating, click on the update system button.



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

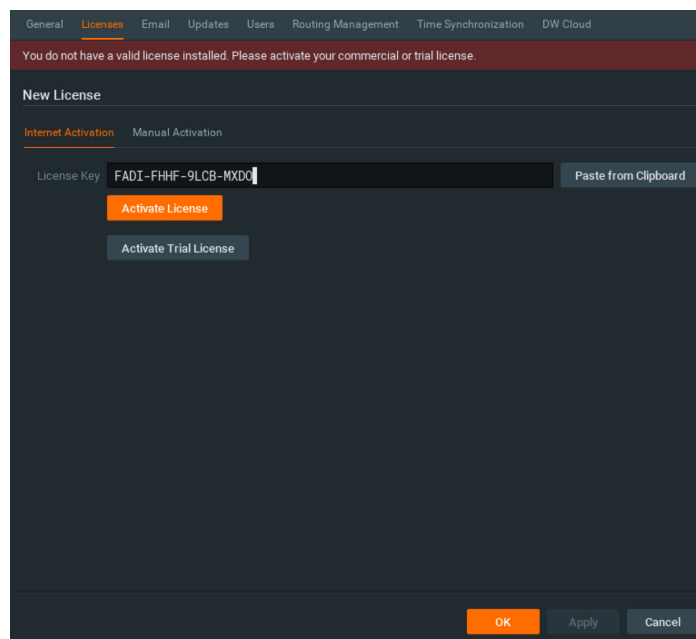


3. Click OK when the update is completed.

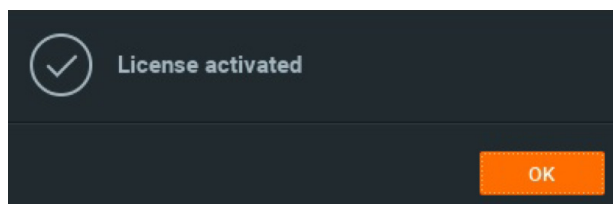


STEP 4: Enter and activate licenses

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.

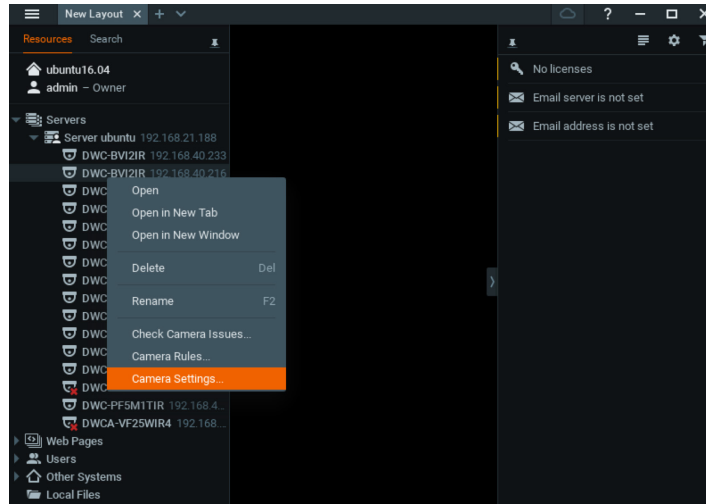


3. Click OK when the license key is activated.

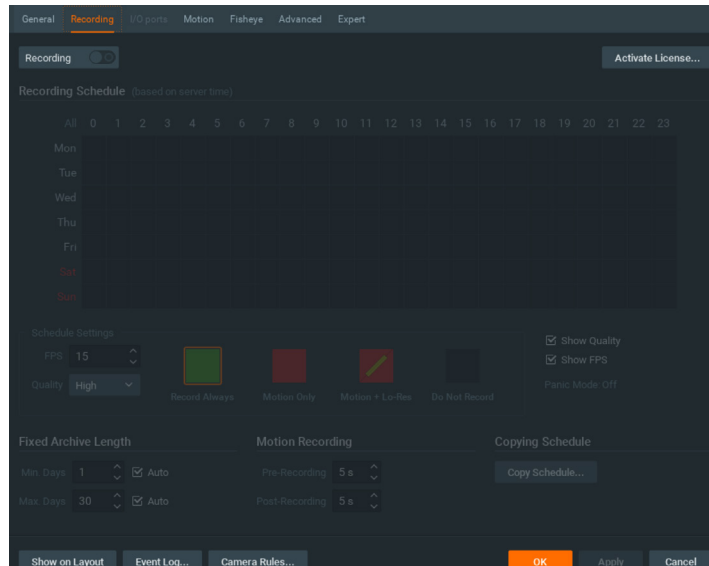


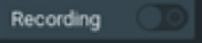
STEP 5: Configure recording

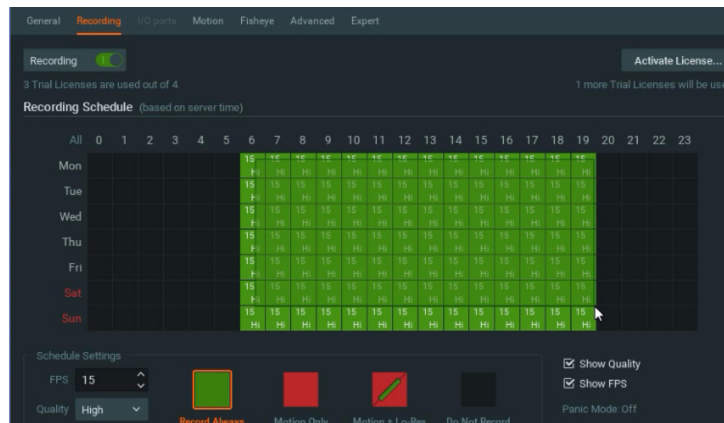
1. Right-click on a camera in the resource tree to setup recording. Click on camera settings from the context menu.



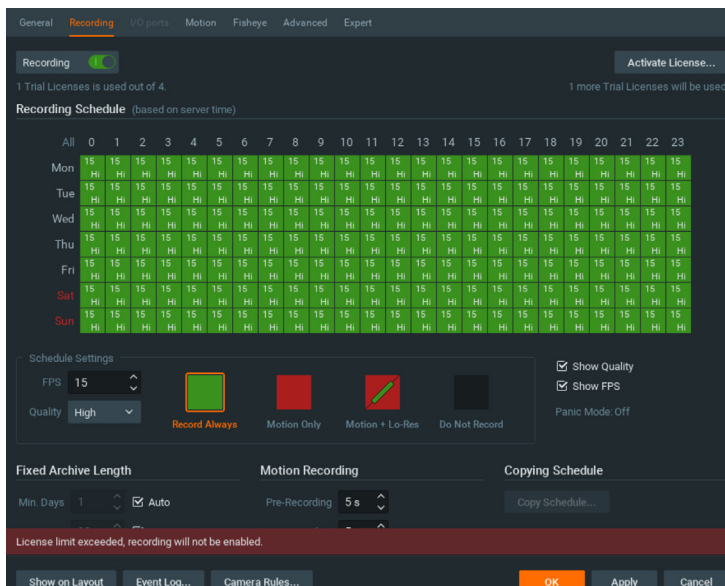
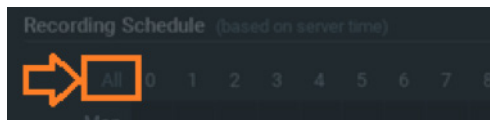
2. Go to the recordings tab.



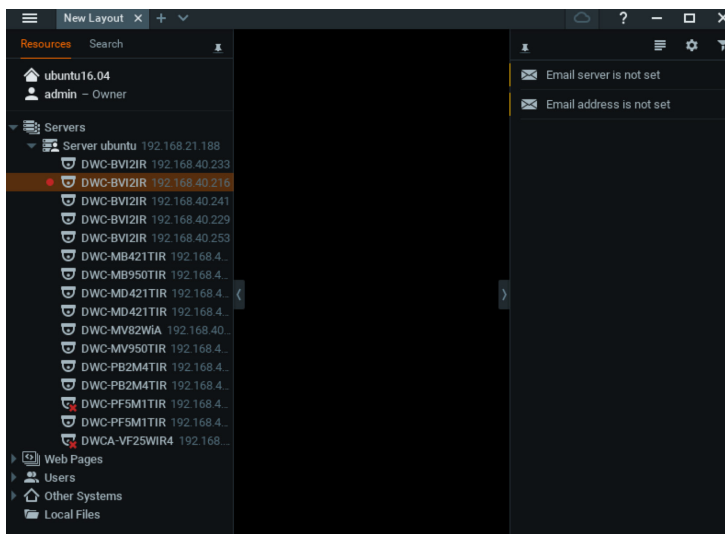
3. Click  to turn on recording.
4. Configure the camera's schedule settings for quality, FPS and recording type.
5. Click and drag the mouse over the recording schedule to apply the settings to multiple days and times.



* Click "All" to apply the recording settings to the entire schedule.

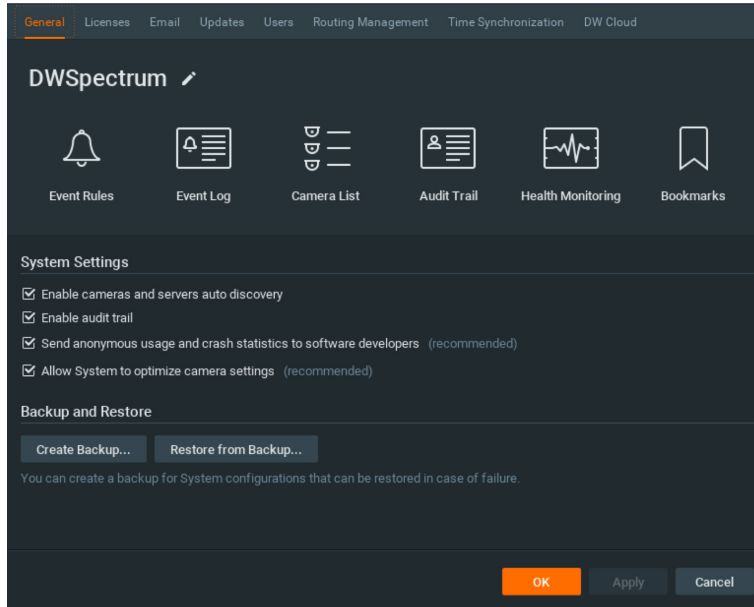


6. A red dot will appear next to the camera in the resource tree once recording is started.

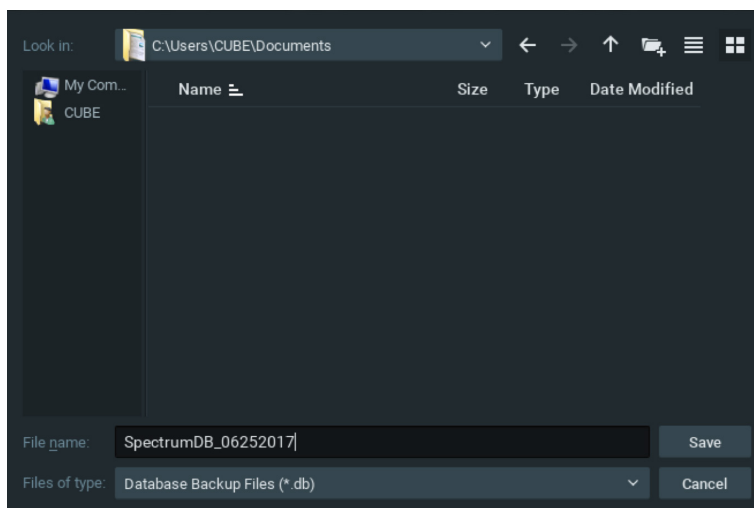


STEP 6: Backup database

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 recommended to backup your data to 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	<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 a 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 and 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 username 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 permission to view that specific camera.
I cannot get playback video from my camera	<ol style="list-style-type: none"> 1. Do you have a network connection between client and server (in case the 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 username 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 username and password.

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	Tested operating systems <ul style="list-style-type: none"> • Windows: 7 Home, 7 Standard, 7 Pro, 7 Ultimate, 8/8.1 Standard, 8/8.1 Pro, 8.1 Enterprise, 10 Home/Pro/Enterprise¹. • Windows Server 2008 R2, 2012, 2012 R2, 2016 v1607. • Ubuntu LTS: 16.04, 18.04, 20.04. • MAC OS X 10.14: "Mojave", 10.15 "Catalina". ¹ For Windows 10, recommend i5/i7 processors with 16GB RAM and video card with 4GB or higher RAM.		
	Operating system no longer supported <ul style="list-style-type: none"> • 32 Bit operating system (both Windows and Ubuntu Linux). • Ubuntu 14.04 is no longer supported (See the reference for upgrade instruction). • Windows Server 2008 is no longer supported (Only 2008 R2 is supported). • MAC OS X 10.11, 10.12, 10.13 support dropped. The client will not work. 		

* Except Storage Server version

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

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