DIGITAL WATCHDOG DW-BJT71xxT/LX Blackjack Tower Server with Intel Core i7 Processor with RAID and UL Listed User Guide

Contents

1 DIGITAL WATCHDOG DW-BJT71xxT/LX Blackjack Tower Server with Intel Core i7 Processor with RAID and UL Listed
2 WHAT'S IN THE BOX
3 BLACKJACK® TOWER™ FULL-SIZE
4 SPECIFICATIONS
5 SETTING UP THE SERVER
5.1 STEP 1: Connect external devices, power and network.
5.2 STEP 2: Configure date and time
6 CONFIGURE CAMERAS USING DW® IP FINDER™
7 SETTING UP DW SPECTRUM® MEDIA SERVER
8 TROUBLESHOOTING TIPS
9 SYSTEM REQUIREMENTS
10 Documents / Resources
11 Related Posts

DW DIGITAL WATCHDOG®
Complete Surveillance Solutions

DIGITAL WATCHDOG DW-BJT71xxT/LX Blackjack Tower Server with Intel Core i7 Processor with RAID and UL Listed

State of the art hyper-optimized video management platform designed for ease, speed and efficiency. Blackjack® Tower™ full-size servers — Up to 600Mbps

DW-BJT71xxT/LX
DW-BJTR715xxT/LX/S
DW-BJTR716xxT/LX/S

Default Login Information for DW Spectrum® IPVMS

Username: admin
Password: admin12345

Default login information for the server's OS

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.

Tel: +1 (866) 446-3595 / (813) 888-9555
Technical Support Hours: 9:00AM – 8:00PM EST, Monday through Friday

BLACKJACK® TOWER™ FULL-SIZE

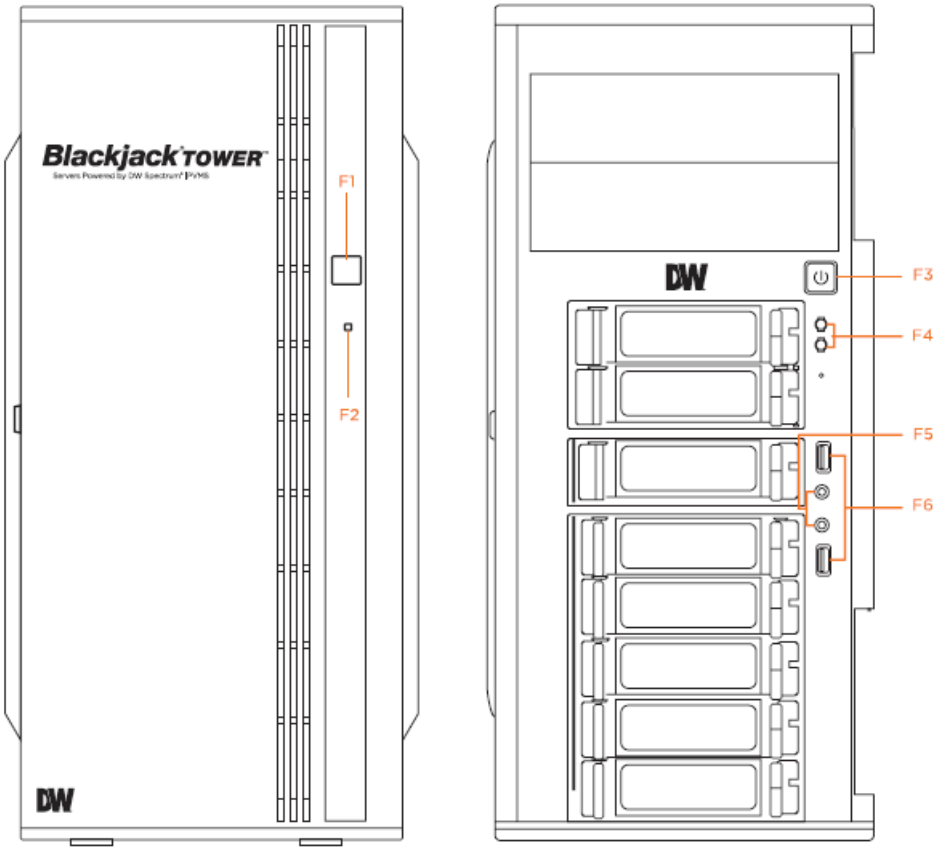
Front Panel

1. F5Audioinputand output

F1	Power button
F2	Power LED
F3	Internal power button
F4	Drive status LED

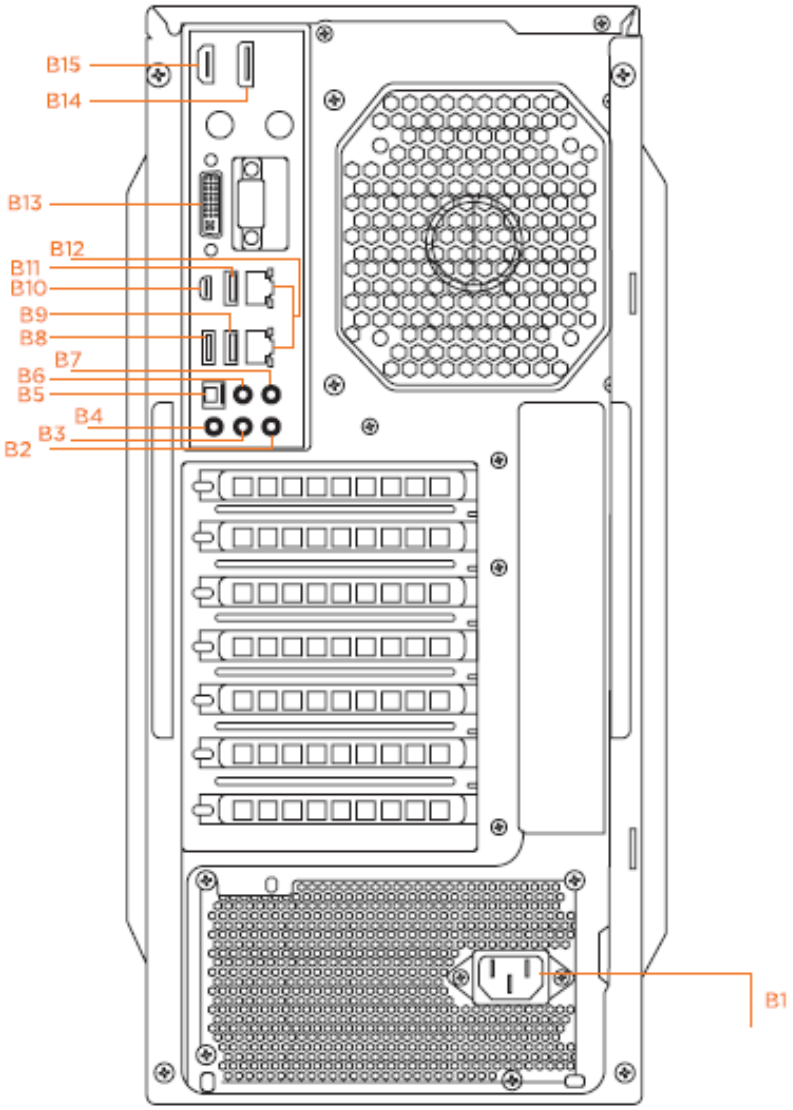
F5 Audio input and output

F7 2x USB 2.0 ports



Back Panel

B1	Power - SMPS
B2	Line in
B3	Line out
B4	Mic in
B5	SPDIF out
B6	Surround out
B7	Center/LFE out
B8	USB Type C port
B9	USB 3.0 ports
B10	1x mini DisplayPort
B11	1x USB port
B12	2x network ports
B13	DVI output
B14	1x USB 2.0 port
B15	True HD output



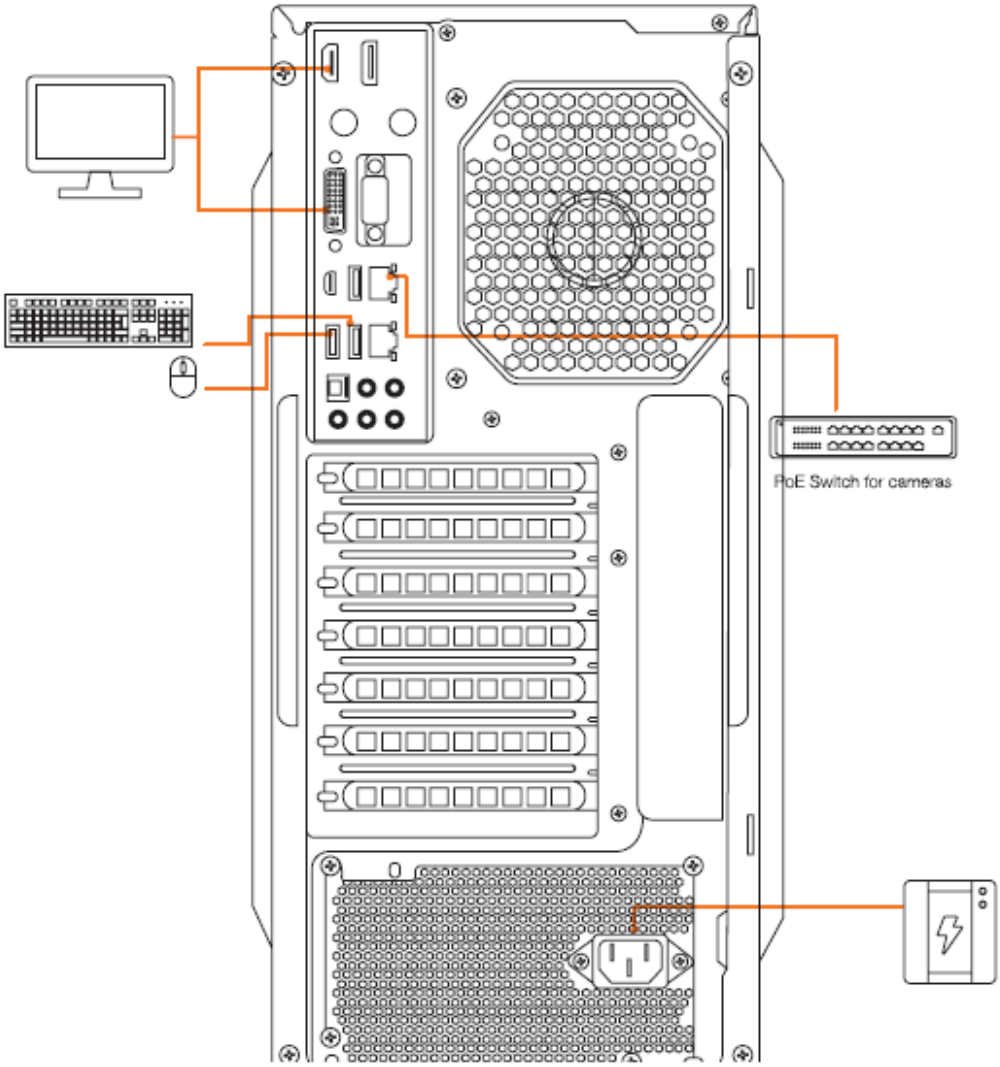
SPECIFICATIONS

PART NUMBER		**DW-BJT71xxT/LX**	**DW–BJTR715xxT/LX/S DW–BJTR716xxT/LX/S**
Included IP licenses		4	4
Form factor		Full Tower	Full Tower
Operating system	Windows®10	DW-BJT71xxT	DW-BJTR715xxT/ DW-BJTR716xxT
	Linux Ubuntu ® 18.04 LTS	DW-BJT71xxTLX	DW-BJTR715xxTLX/ DW-BJTR716xxTLX
	Windows Server®	—	DW-BJTR715xxTS/ DW-BJTR716xxTS
	OS on SSD	240GB SSD	
CPU		9th Gen Intel® Core™ i7 processor	
Memory		16GB	
Ethernet port		2x 1G Ethernet	
System	Max video storage	600Mbps	RAID5: 600Mbps RAID6: 420Mbps
Storage	Max SSD and HDD	7 x 3.5 SATA HDD, Hot-Swappable	
	Max storage	Maximum 112TB	Maximum raw 112TB
	RAID options	—	RAID5*, RAID6*
Video	Outputs	1x true HD, 1x DVI, 1x DisplayPort, for system configuration. Maximum 1 display output at a time.	
	Max resolution	1920 x 1200	
	Video card	On-board Intel Graphics	
Preloaded VMS software		DW Spectrum® IPVMS	
Remote clients and mobile apps		Cross platform – Windows®, Linux Ubuntu® and Mac®, iOS® and Android®	
Keyboard and mouse		Included	
Power supply		500W**	
Operating temperature and humidity		41°F~104°F (5°C~40°C), 20~90% RH	
Dimension (WxDxH)		8.6” x 19.12” x 16.83” (218.6 x 485.8 x 427.5 mm)	
Other certification		UL listed, ONVIF, NDAA/TAA, CE, FCC	
Warranty		5 year limited	

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
2. Connect the server to an appropriate power It is recommended to use a UPS system.
    - 3000VA or higher is
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

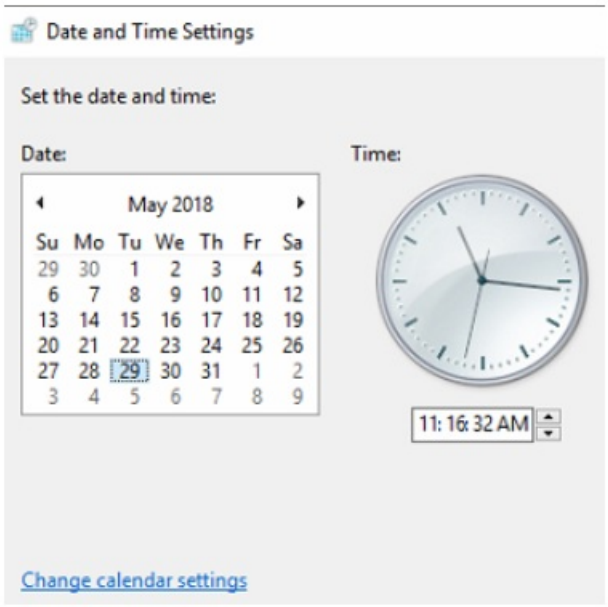


STEP 2: Configure date and time

Windows®

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

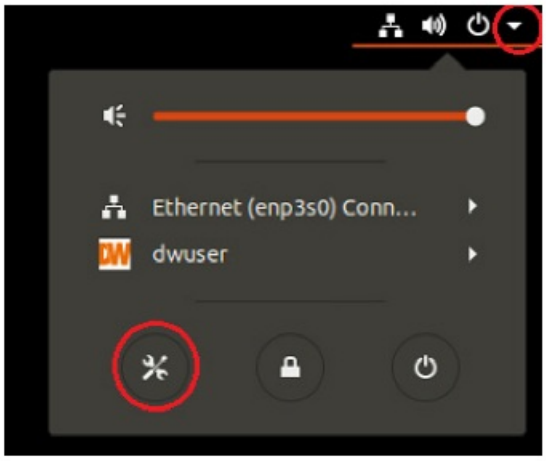
3. Press OK after selecting the correct time
4. Click “Change date and time…” to update the date and time if they are not



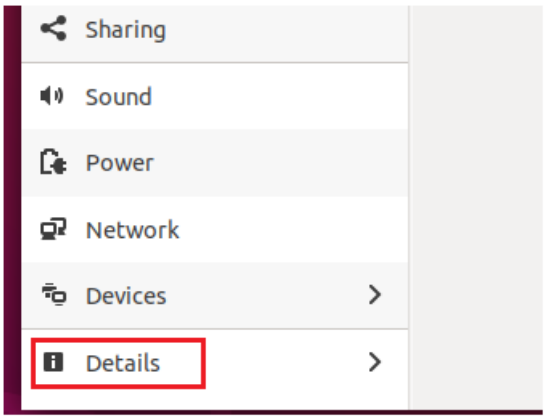
5. Press OK after adjusting to the correct date and/or Press OK to close the date and time when done.

Linux®

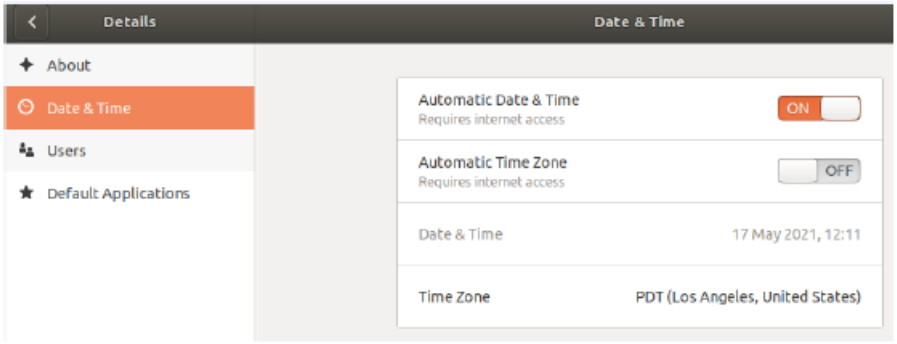
1. Open Settings



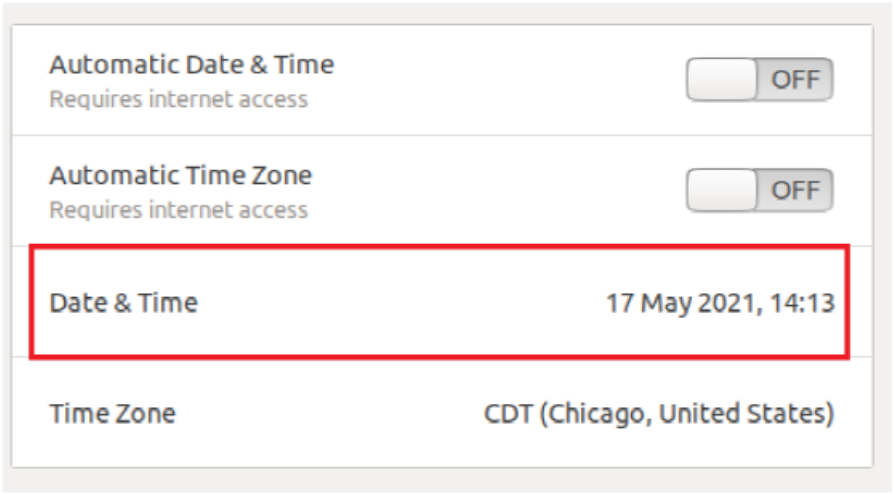
2. Click Details



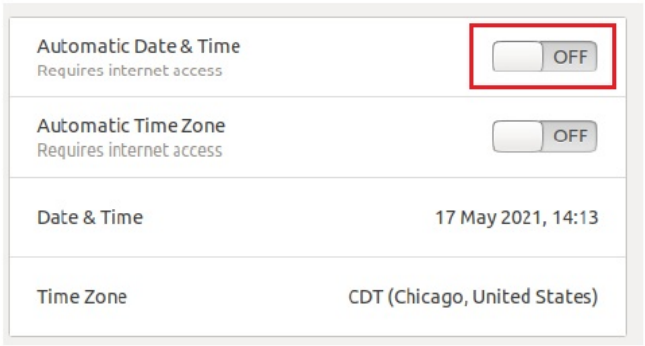
1. Click Date &Time

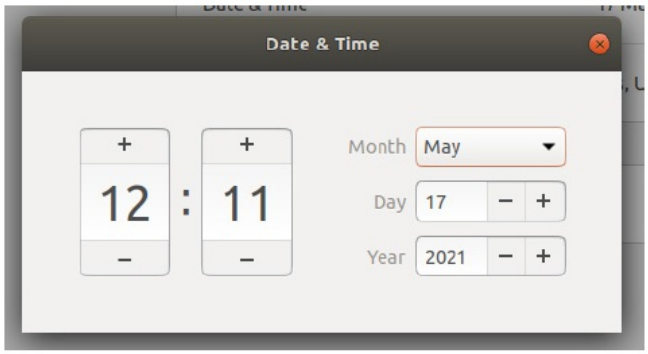


2. Turn OFF Automatic Date & Time and Automatic Time Zone



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





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

5. 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	

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

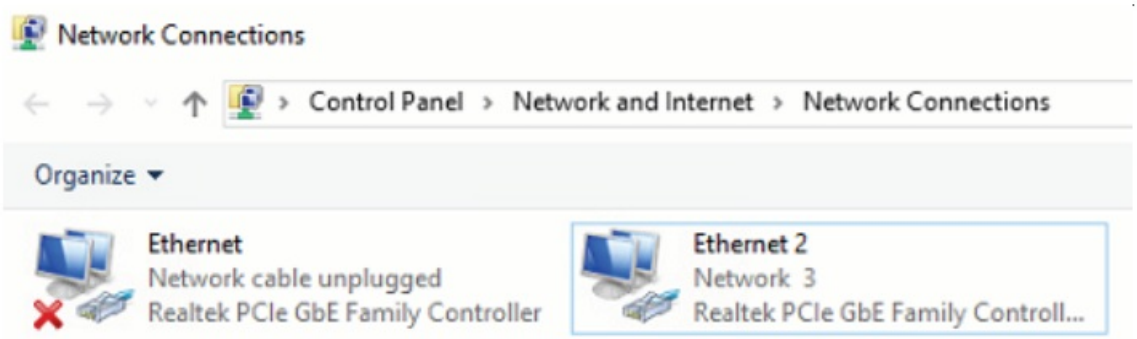
NOTE The Blackjack® server's network settings are set to DHCP as default.

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

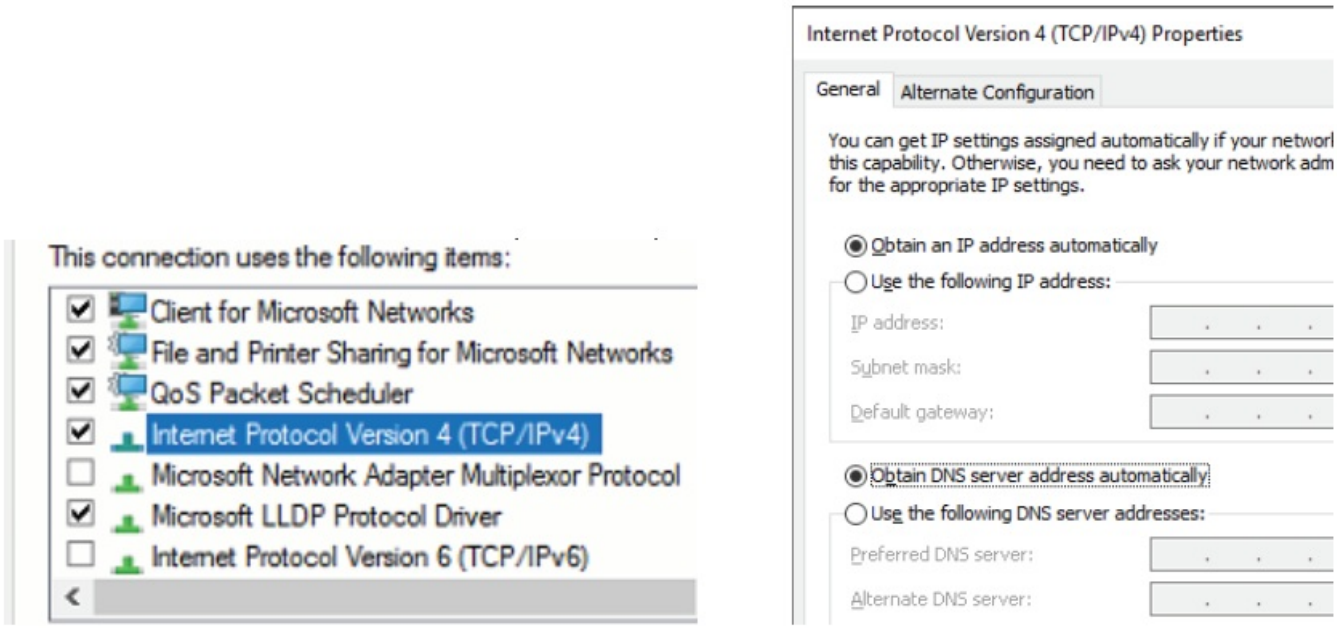
Windows®

Double click on the "Network Connections" on the

Right-click on "Ethernet with cable connected" and click "Properties".

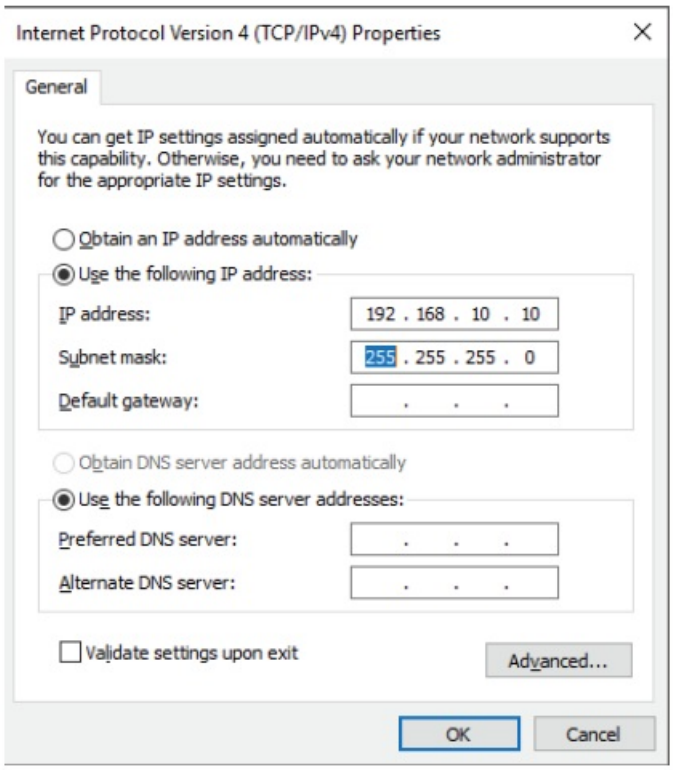


1. Select “Internet Protocol Version 4 (TCP/IPv4)” and click “Properties”.



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

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

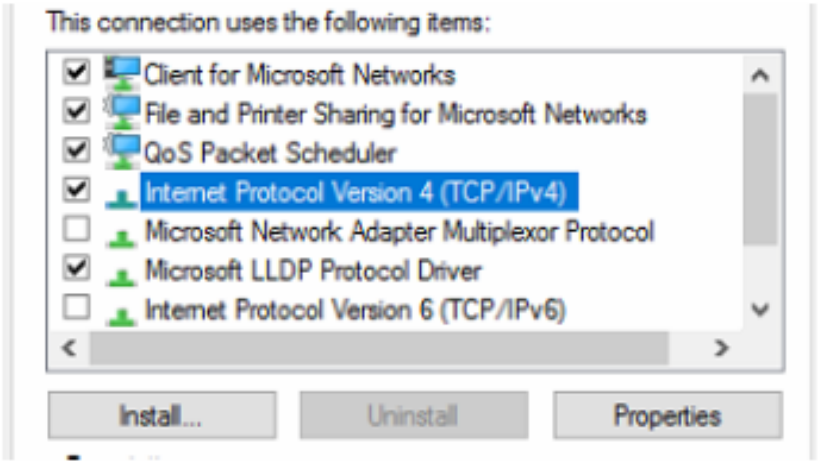


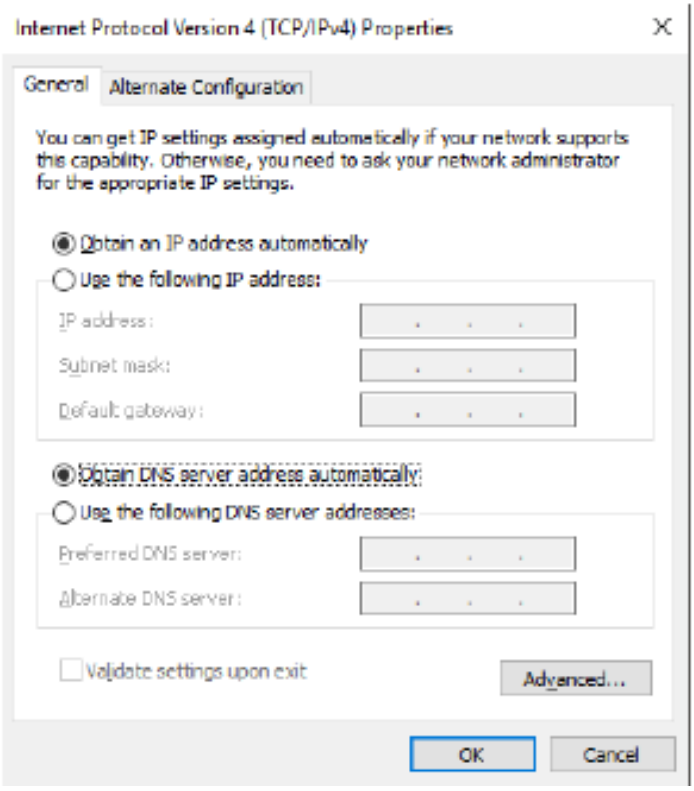
Click OK to close then click close to go back to network

Local Network

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

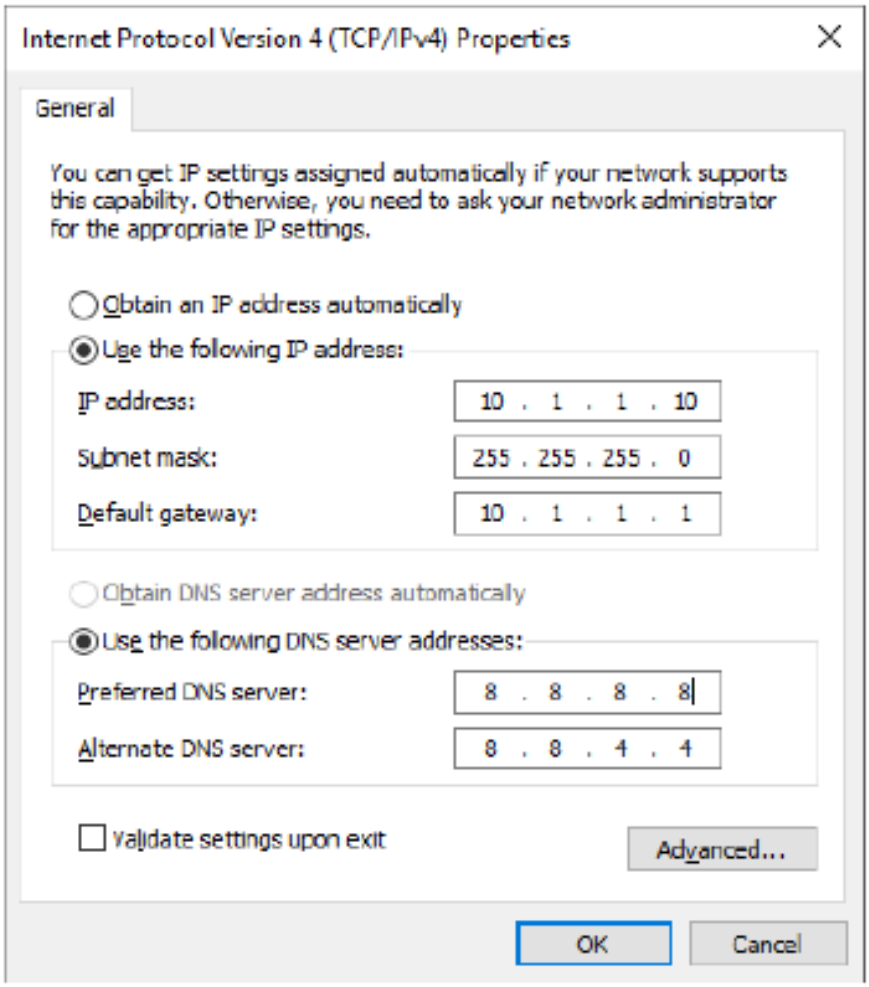
Select “Internet Protocol Version 4 (TCP/IPv4)” and click “Properties”.





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

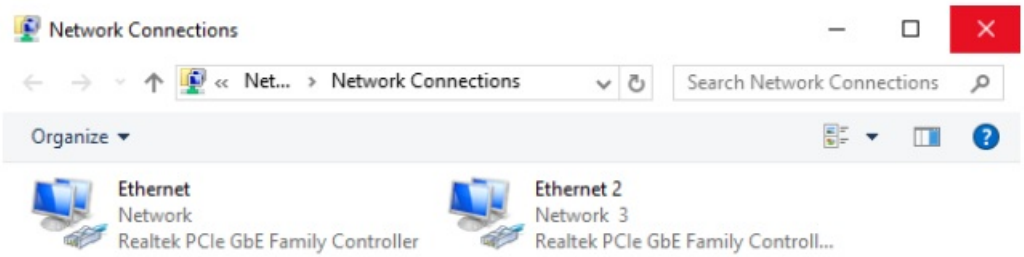
Enter IP address and subnet mask of the camera



Click OK to close then click close to go back to network

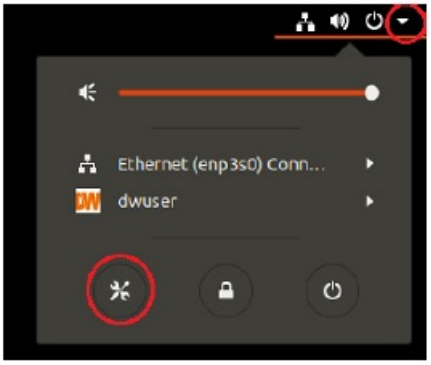
Connect a network cable to the Ethernet port B10 on the diagram (page 2) to the switch on the local

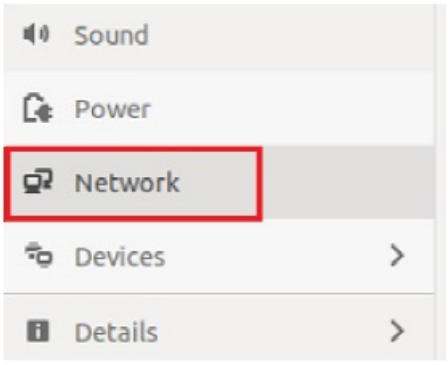
Close the network connections



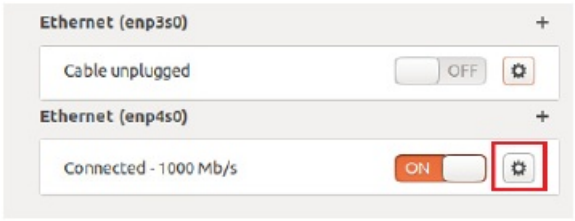
Linux®

Open Settings > Network

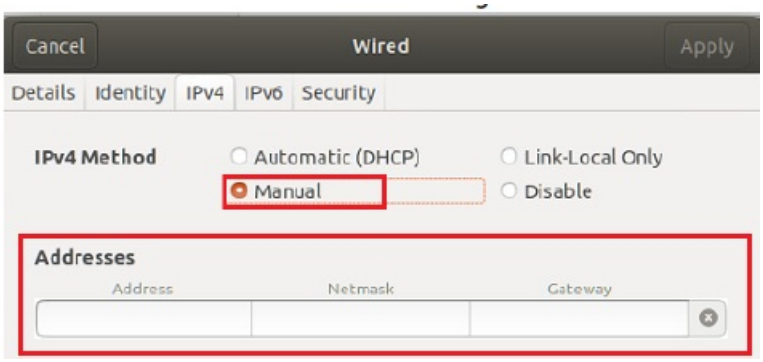




Click Setting of the Ethernet that is Connected

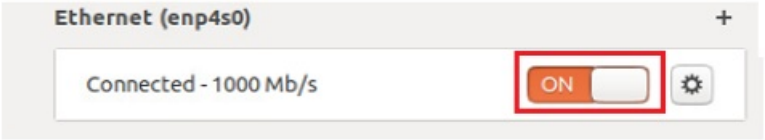


Change to Manual then enter Address, Netmask , Gateway.
*** Do not enter Gateway information if there is no Gateway in this network.**

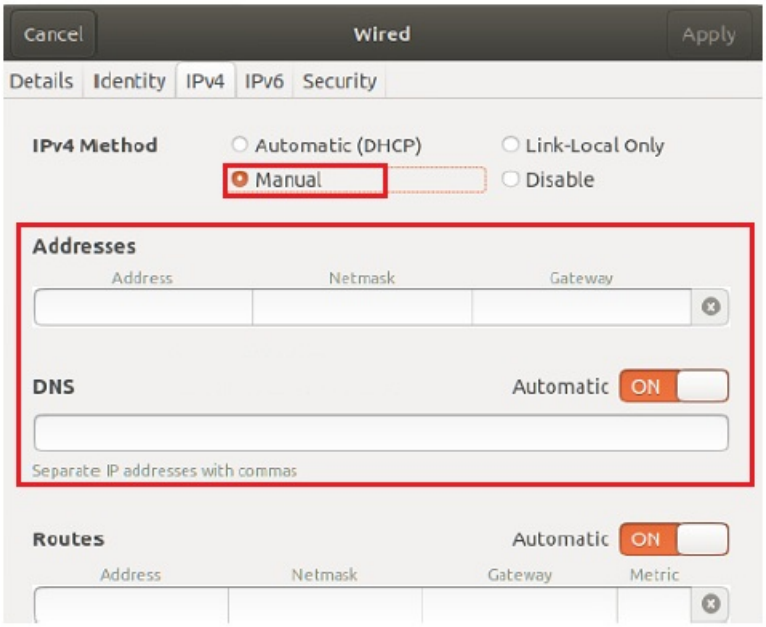


Click Apply to save

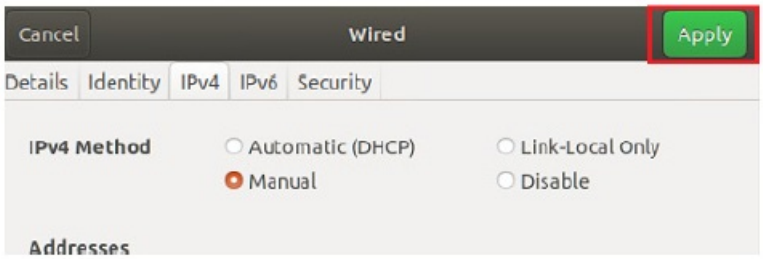
Restart the connection by switching OFF then turn ON.



Click Settings of the Ethernet not connected.
Change to Manual then enter Address, Netmask, Gateway then DNS.



Click Apply to save



Connect the network cable and verify the connection.

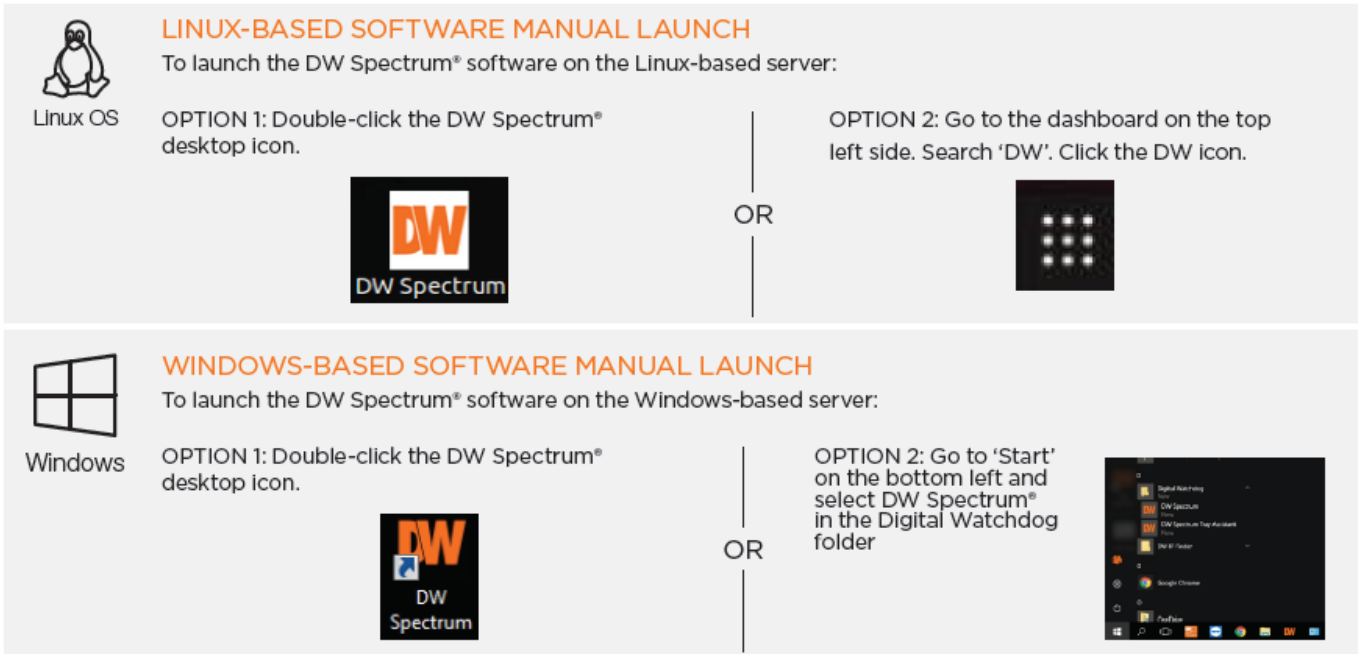
NOTE If you are not connecting to the Blackjack® from the same network, you may be required to perform port forwarding on your router to access the server. Contact your Network Administrator or Installer for additional information

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

LINUX-BASED SOFTWARE MANUAL LAUNCH
To launch the DW Spectrum® software on the Linux-based server:

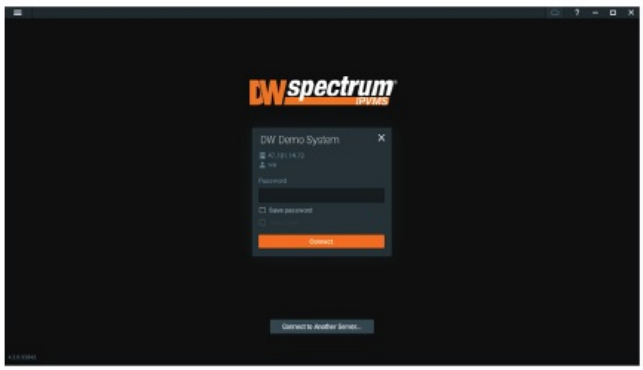


SETTING UP DW SPECTRUM® MEDIA SERVER

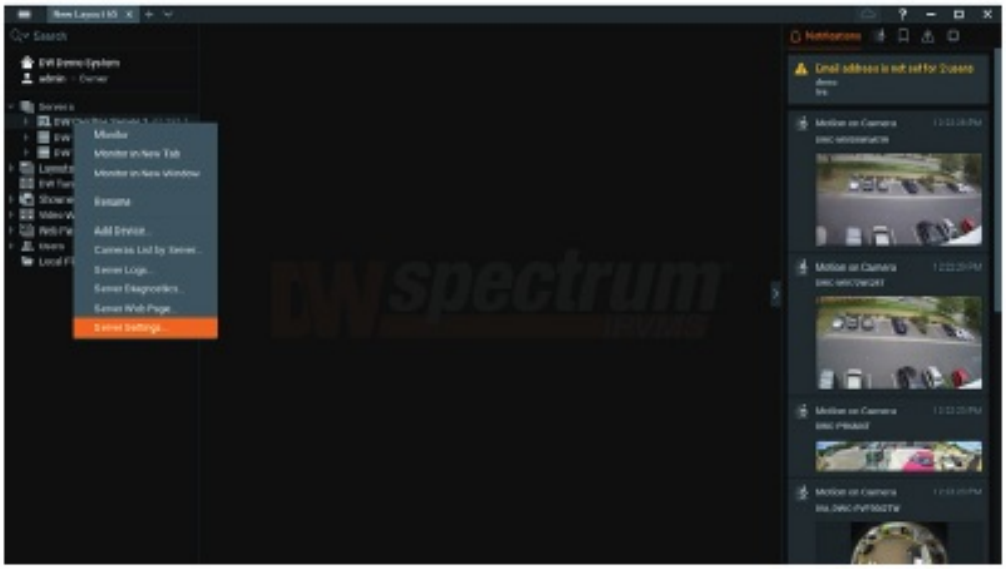
Login: admin Password: admin12345

STEP 1: Initial run from the Blackjack® server

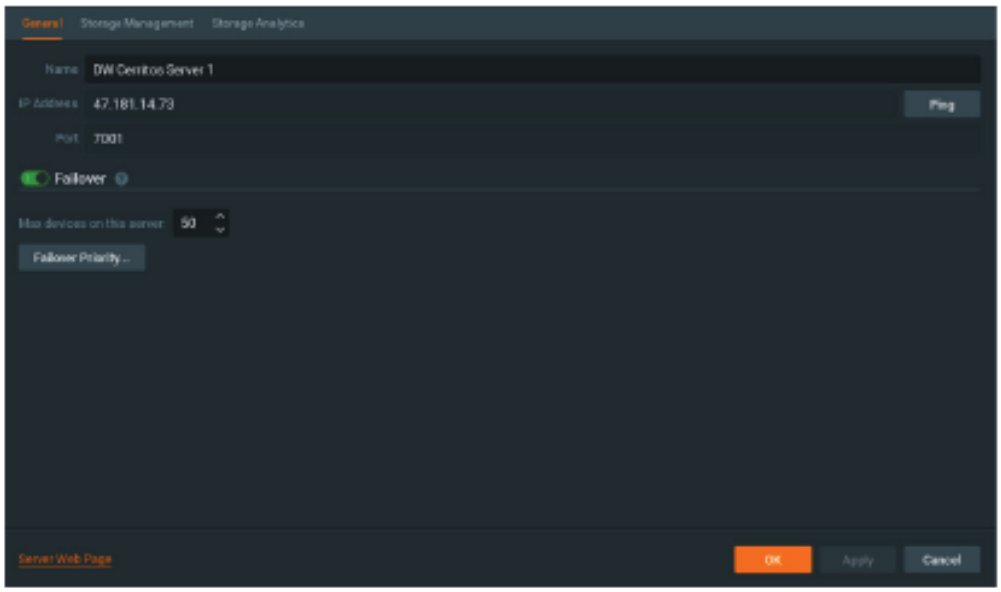
Open the DW Spectrum® client by double click on the DW Spectrum® icon.
Clic k on the pre-configured server.
Enter the password and click connect.
* Default password: admin12345 (case sensitive).



STEP 2: To rename the server
1. Right-click on the server name listed on the resources then click server settings.



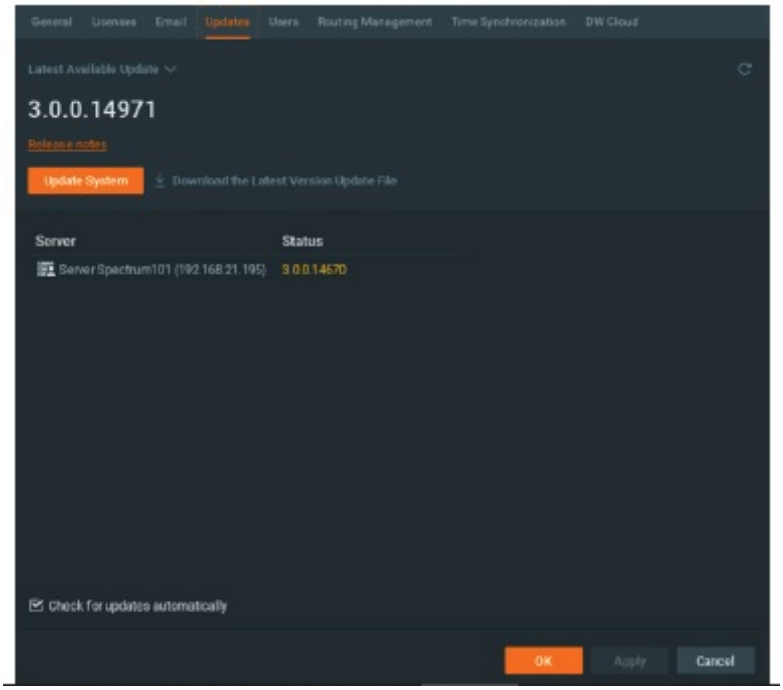
2. Go to the general tab and enter the new server name in the name field. Click OK.



STEP 3: To check for updates

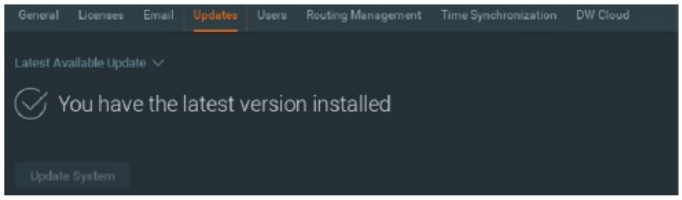
1. Click on the menu then click “System Administration”.

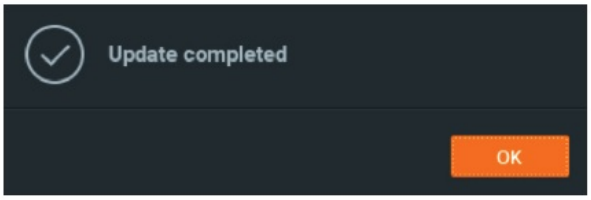
2. Go to the updates tab. If the system requires updating, click on the update system button.



* 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.



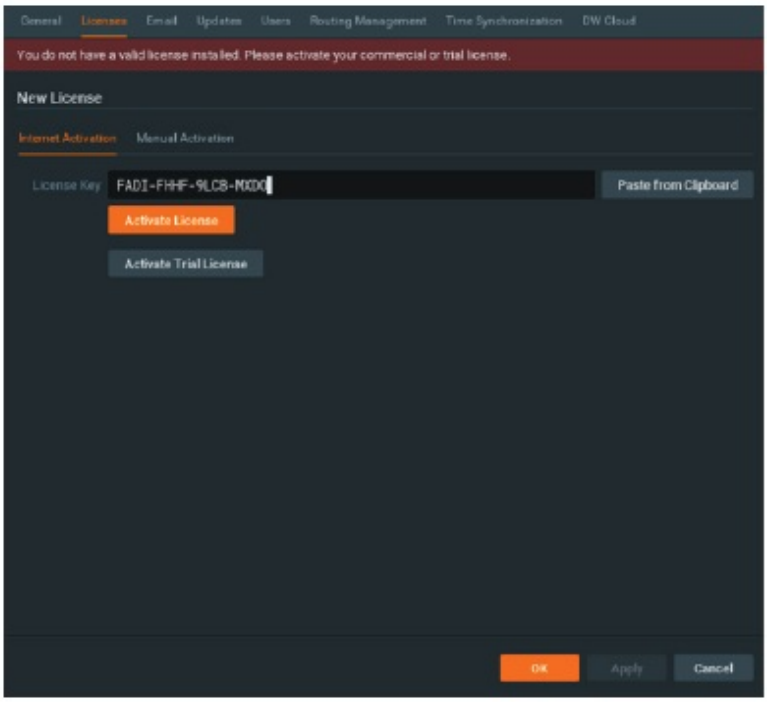


STEP 4: Enter and activate licenses

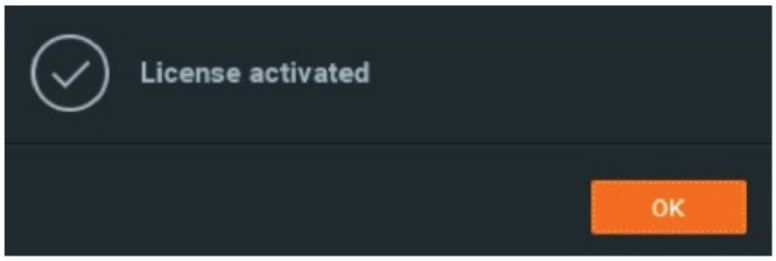
1. Go to the system administration window and click on the license tab.

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.**

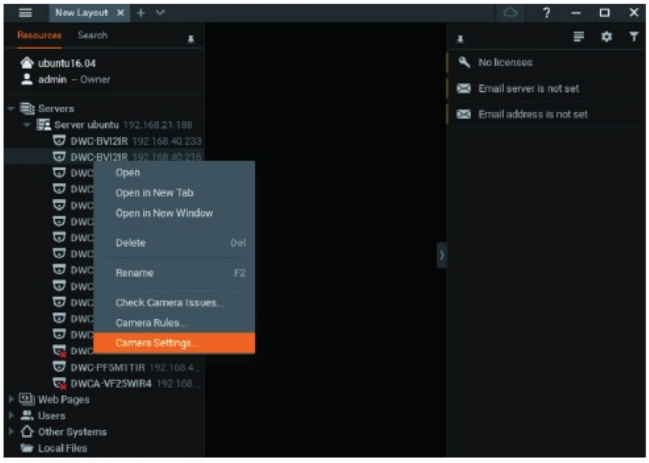


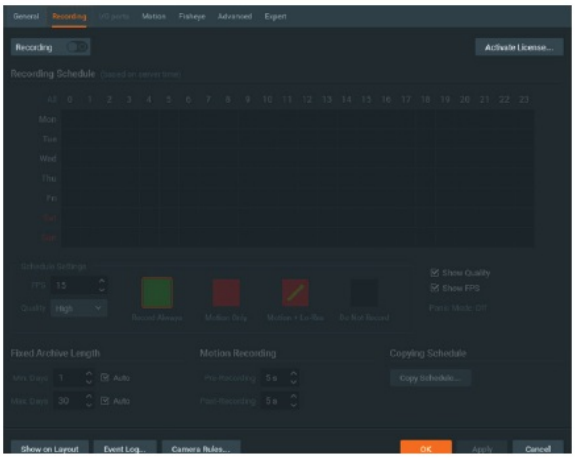
3. Click OK to when the license key is activated.



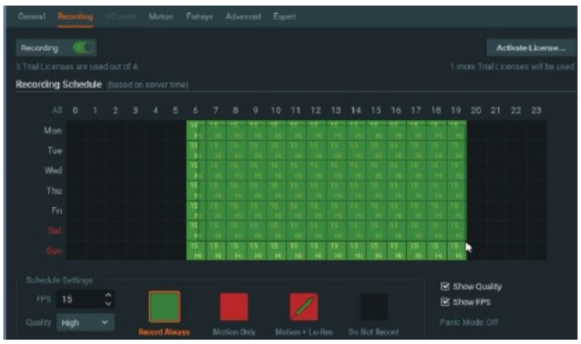
STEP 5: Configure recording

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

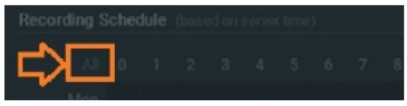




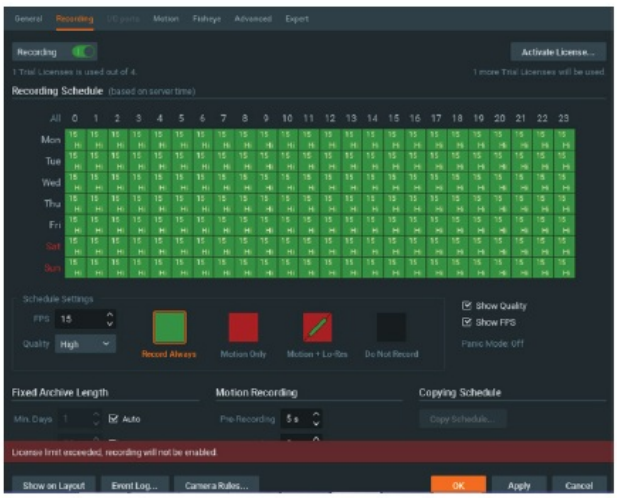
3. Click recording to turn on recording.

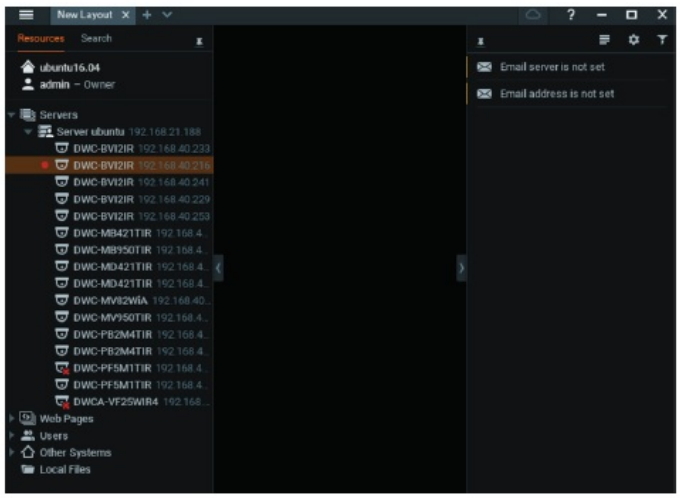


* Click “All” to apply the recording settings to the entire schedule.



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

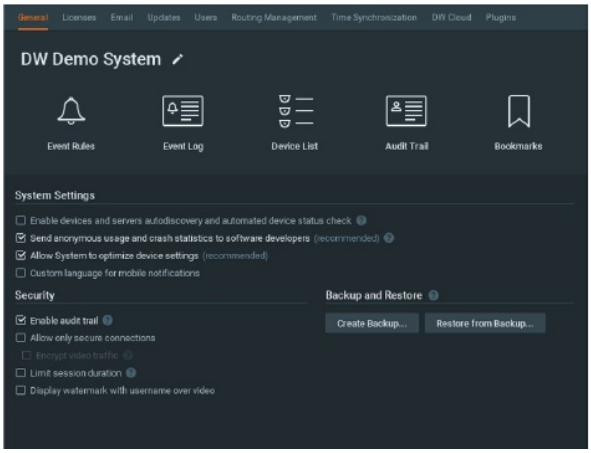


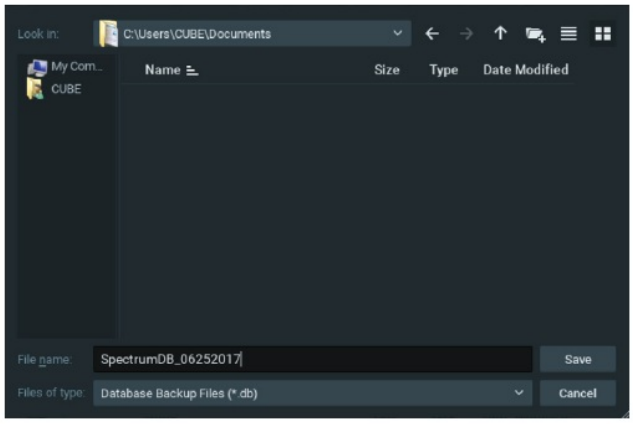


STEP 6: Backup database

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





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 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	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 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	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	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

		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	• 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 4 GB or higher RAM.		
	Operating system no longer supported	• 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.		

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Documents / Resources

	DIGITAL WATCHDOG DW-BJT71xxT/LX Blackjack Tower Server with Intel Core i7 Processor with RAID and UL Listed [pdf] User Guide DW-BJT71xxT, LX, DW-BJTR715xxT, LX, DW-BJTR716xxT, LX, DW-BJT71xxT-LX, Blackjack Tower Server with Intel Core i7 Processor with RAID and UL Listed, Intel Core i7 Processor with RAID and UL Listed

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