

Blackjack[®] RACK SERVER

Servers Powered by DW Spectrum® IPVMS

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

Blackjack® Rack™ servers — Up to 600Mbps

DW-BJRR2UxxT	DW-BJRR2UxxTLX	DW-BJRR2UxxTS	
DW-BJRR2PxxT	DW-BJRR2PxxTLX	DW-BJRR2PxxTS	



Default Login Information for DW Spectrum® IPVMS

Username: admin Password: admin12345

Default Login Information for Windows®

Username: **DWBJRR** Password: **Dw5pectrum**

	W	HAT'S IN	N THE BOX				
Rack™ Server		1	Keyboard and Mouse	S	1 set	Rail Kit	1 set
Quick Start Guide		1	Power Cable		2	Mini-DP to True HD Adapter	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.

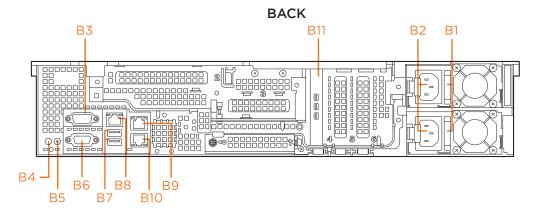
See the DW Spectrum® full manual for more information on features and functionality.



BLACKJACK® RACK™ HARDWARE OVERVIEW

- FRONT F4 F5 F6 F9 F9
- F1 System health LED
- F2 Lock
- F3 LCD panel cursor left
- F4 LCD panel menu item select
- F5 LCD panel cursor right
- F6 LCD display
- F7 Power button
- F8 VGA port (not used)
- F9 USB 2.0 ports
- F10 Micro-AB USB port

(maintenance only)



- AC PSU status indicator handle
- B2 Power ports
- B3 Serial port
- B4 System identifier
- B5 CMA power port
- B6 VGA port (not used)
- B7 USB ports
- B8 iDRAC network port
- B9 Network ports (LAN/WAN)
- B10 Network ports (cameras)
- B11 Video output

Default Login Information for DW Spectrum® IPVMS

Username: admin Password: admin12345

Default Login Information for Windows®

Username: **DWBJRR** Password: **Dw5pectrum**

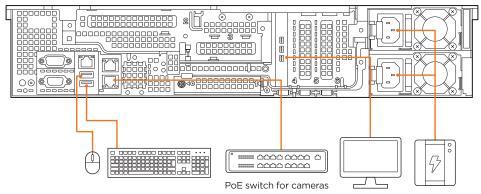
SPECIFICATIONS

Model		DW-BJRR2UxxT	DW-BJRR2PxxT	
Included IP licenses		8		
Form factor		Rackmount, 12-bay 2U chassis		
Operating	Windows®10	DW-BJRR2UxxT	DW-BJRR2PxxT	
	Linux Ubuntu® 18.04 LTS	DW-BJRR2UxxTLX	DW-BJRR2PxxTLX	
Operating system	Windows Server®	DW-BJRR2UxxTS	DW-BJRR2PxxTS	
	OS on NVMe SSD	2 x 240GB NVMe SSD (RAID1)		
CPU		Intel® Xeon® Silver processor	Dual Intel® Xeon® Silver processors	
Memory		16GB (2x 8GB)	32GB (4x 8GB)	
Ethernet port		2x 1G Ethernet		
System	Maximum video storage	600Mbps		
Ctorono	Maximum HDD	12x 3.5" SATA HDD		
Storage	Maximum storage	Maximum raw 192TB, RAID5*		
\	Outputs	3 x mini DisplayPort (1 x mini-DP to true HD adapter included)		
Video	Video card	Nvidia Quadro P400		
Preloaded V	MS software	DW Spectrum® IPVMS		
Remote clier	nts and mobile apps	Cross-platform - Windows®, Linux Ubuntu® and Mac®, iOS® and Android®		
Keyboard an	nd mouse	Included		
Power supply		750W dual power supply**		
Operating temperature and humidity		41°F~104°F (5°C~40°C), 5~85% RH		
Dimension (WxDxH)		19" x 28.25" x 3.41" (482.6 x 717.55 x 86.61mm)		
Other certification		UL, FCC and CE		
Warranty		5 year warranty with next business day on-site hardware repair***		

SETTING UP THE SERVER

STEP 1: Connect external devices, power and network.

- Connect a monitor, USB keyboard, USB mouse and network cable to one of the Ethernet ports (B10 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.
 - 1500VA or higher is recommended (per PSU).
- 3. Power up the server if the server does not turn on automatically by pressing the power button on the front of the server. (F7 on the diagram).
 - Connecting the power cable to the live power source may turn on the server automatically.

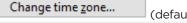


STEP 2: Configure date and time

Windows®



- 1. Double-click on the date and time icon on the desktop.
- 2. Change time zone if it is not correct



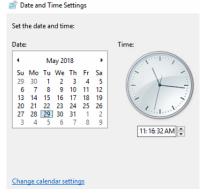
(default is UTC-08:00 Pacific Time).



- 3. Press OK after selecting the correct time zone.
- 4. Click "Change date and time..." to update the date and time if they are not correct.
- ----

Change date and time...

• Verify the time zone before updating the <u>date and time</u>. Time may show 2 or 3 hours off due to an incorrect time zone.

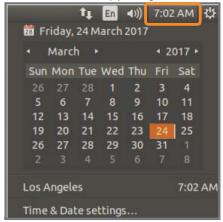


5. Press OK after adjusting to the correct date and/or time. Press OK to close the date and time when done.



Linux®

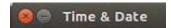
1. Update the date and time by clicking in the time on the upper right-hand corner then click "Time & Date settings..."



2. If the server will be connected to the Internet, leave the settings on "Automatically from the Internet". 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 the 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		
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.

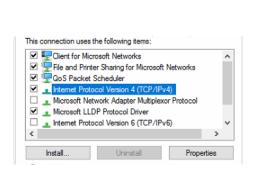
Windows®

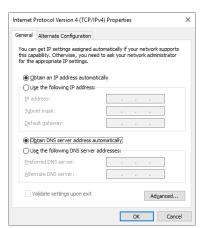


- 1. Double click on the "Network Connections" on the desktop.
- 2. Right-click on "Ethernet with cable connected" and click "Properties".



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

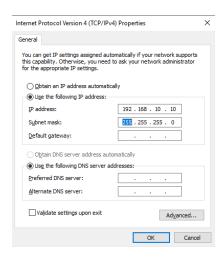






- 4. Select "Use the following IP address" (Use the following DNS server addresses will be selected automatically).
- 5. Enter the IP address and Subnet mask of the camera network. (Do not enter anything for the default gateway, preferred DNS server and alternate DNS server.

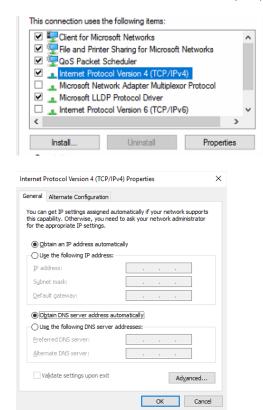
NOTE It must be the same network as the cameras and must not be the same network as the local network. Contact your network administrator for more information.



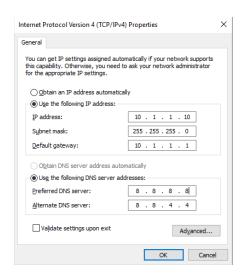
6. Click OK to close then click close to go back to network connections.

Local Network

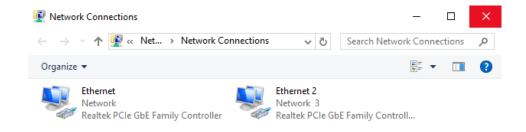
- 7. Right-click on the other Ethernet, the one with network cable unplugged, and click "Properties".
- 8. Select "Internet Protocol Version 4 (TCP/IPv4)" and click "Properties".



- 9. Select "Use the following IP address" (Use the following DNS server addresses will be selected automatically).
- 10. Enter 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 B10 on the diagram (page 2) to the switch on the local network.
- 13. Close the network connections dialog.



Linux®

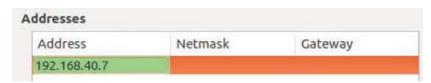
1. Double-click the network icon



on the desktop.

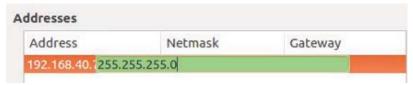
NOTE The Blackjack® server's network settings are set to DHCP as default.

- 2. Select 'Wired' that has arrows pointing up and down from the list (If neither of the "wired" is showing arrows up and downs, then make sure the network cable is connected to the PoE switch on the camera network from STEP 1).
- 3. Click 'Options' at the bottom of the window.
- 4. Click on the 'IPv4 Settings' tab.
- 5. From the drop-down menu, select connection type ("method") as manual.
- 6. Click 'Add' next to addresses.
- 7. Enter IP address then press tab on the keyboard to move to netmask.

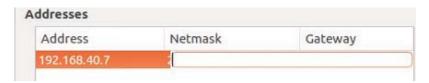




8. Ignore any populated values and enter the valid netmask value, then press the tab on the keyboard to move to the gateway.



- 9. Enter the gateway address if required then press enter on the keyboard.
- * The gateway is not required on the camera network.



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.

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



Local Network

12. Select "Wired" with the picture of a network port and repeat 2 to 8 under "STEP 3 Configure Network".



13. Click on the DNS servers field box and enter the DNS server address.



- 14. Click "Save".
- 15. Connect a network cable to the Ethernet port B8 on the diagram (page 2) to the switch on the local network.
- 16. Verify the network is connected.

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:

Linux OS

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

DW Spectrum

OR

OPTION 2: Go to the dashboard on the top left side. Search 'DW'. Click the DW icon.





WINDOWS-BASED SOFTWARE MANUAL LAUNCH

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

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

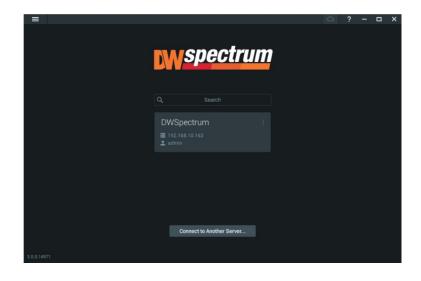
Login: **admin** Password: **admin12345**

STEP 1: Initial run from the Blackjack' server

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

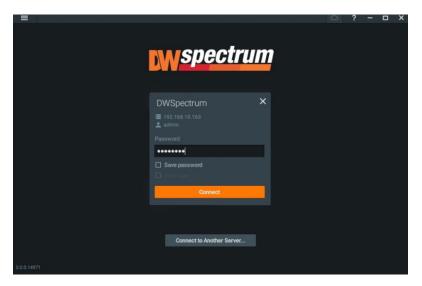


2. Click on the pre-configured server.



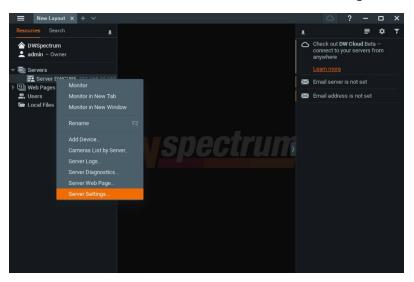


- 3. Enter the password and click connect.
 - * Default password: admin12345 (case sensitive).

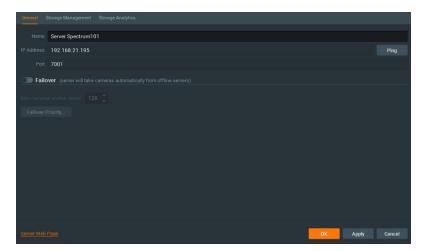


STEP 2: To rename the server

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

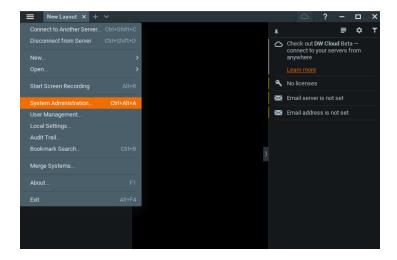


2. Go to the general tab and enter the new server name in the name field. Click OK.

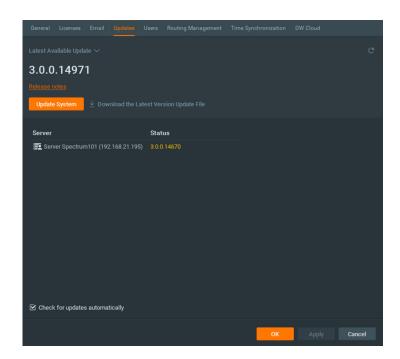


STEP 3: To check for updates

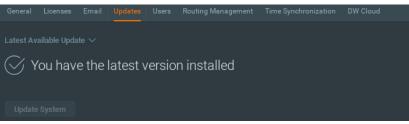
1. Click on the menu then click "System Administration".



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

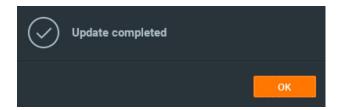


* If you are on the latest version, it will say "You have the latest version installed" and the Update System button will be disabled.



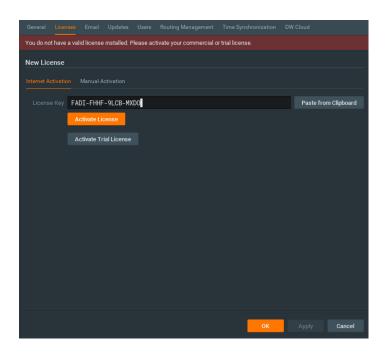


3. Click OK when the update is completed.



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. The license text file will be placed on the desktop and located on a sticker on the top of the server.
 - * Click on "Activate Trial License" if you have not purchased a valid license key.



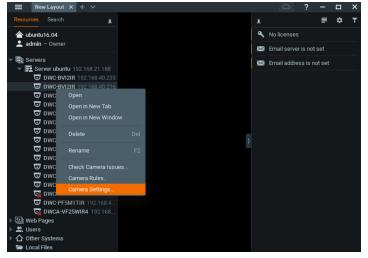
3. Click OK when the license key is activated.



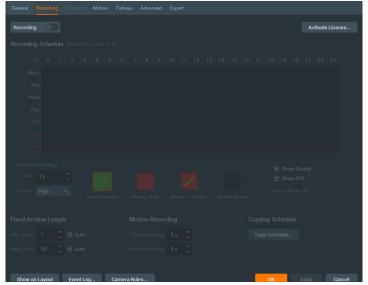
STEP 5: Configure recording

1. Right-click on a camera in the resource tree to setup a recording schedule for it. Click on camera settings from the

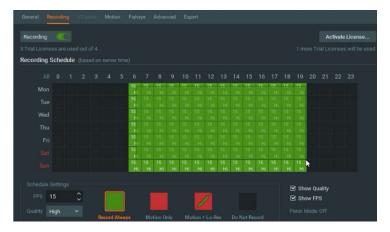
context menu.



2. Go to the recordings tab.



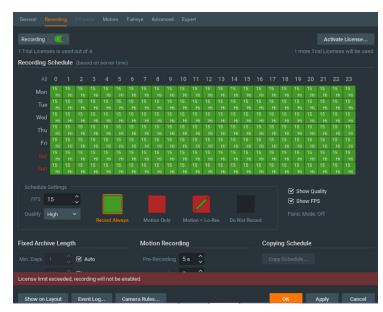
- 3. Click Recording to turn on the recording.
- 4. Configure the camera's schedule settings for quality, FPS and the recording type.
- 5. Click and drag the mouse over the recording schedule to apply the settings to multiple days and times.



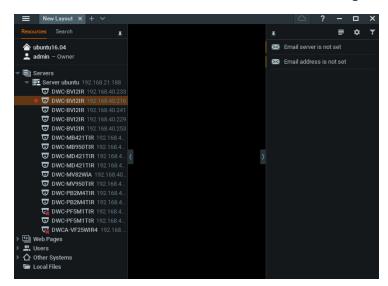


* Click "All" to apply the recording settings to the entire schedule.



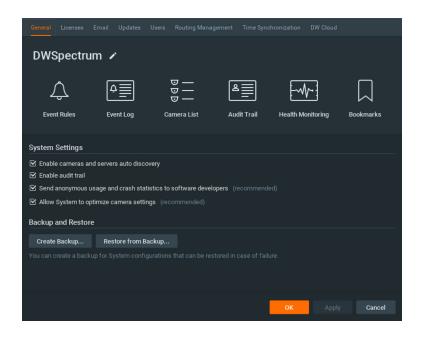


6. A red dot will appear next to the camera in the resource tree once the recording is started.

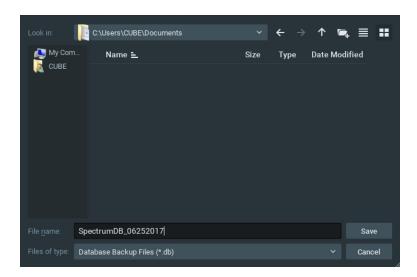


STEP 6: Backup database

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	 Is the camera in the same LAN network as the media server? Is your camera compatible with DW Spectrum*? (Refer to our website for a full list of supported cameras.) Is the camera updated to its latest firmware? If your camera is integrated with DW Spectrum* via ONVIF, make sure ONVIF is enabled on your camera. Try adding the camera manually. 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	Are you accessing the same cameras from multiple clients? (LAN and WAN) Do you have a Gigabit network? Check your network speed.
My camera appears disconnected	 Under camera settings, make sure the username and password are correct. Under the camera settings, use the 'Ping' button to make sure the camera is connected to the network properly. If you can connect to the camera's web viewer, try rebooting the camera and/or restore it to factory default. Make sure your camera is using the latest firmware available. Make sure that the camera is connected to the same network as the server. If you are connecting to a camera that is integrated with DW Spectrum® via the ONVIF protocol (see list), make sure ONVIF is enabled. Make sure your user has permission to view that specific camera.
I cannot get playback video from my camera	 Do you have a network connection between client and server (in case the server and client are not on the same machine)? Make sure your user has playback viewing permissions for the selected channel. Make sure the camera is set to a recording mode that would provide recorded video for the selected time and environment. 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	 Make sure the camera's username and password are properly entered in the camera's general information under the camera settings menu. 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		2 x 1 Gbit or better			
Storage	orage		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". For Windows 10, recommend i5/i7 processors with 16GB RAM and video card with 4GB 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. 			

^{*} Except Storage Server version

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

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