

Blackjack CX*

PoE Servers Powered by DW Spectrum® IPVMS

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

Blackjack® CX™ 16-channel PoE NVR with 8 virtual channels — Up to 80Mbps

DW-BJCX4T-LX	DW-BJCX8T-LX	DW-BJCX16T-LX	DW-BJCX24T-LX	DW-BJCX32T-LX	DW-BJCX40T-LX
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Default Login Information for DW Spectrum® IPVMS

Default login information for the server's OS

Username: admin	Password: admin12345	L	Jsername: d v	wuser	Passwor	d: Dw5pe	ctrum	
	WHA	AT'S IN THE BOX						

		WHAT'S IN	N THE BOX		
Blackjack CX™ server	DW	1	Keyboard and mouse	S S	1 set
Quick start guide		1	Power cable		1
19" rack mount ears (DW-BJCXRM) + 8 mounting screws		1 set			

NOTE: Download all your support materials and tools in one place.

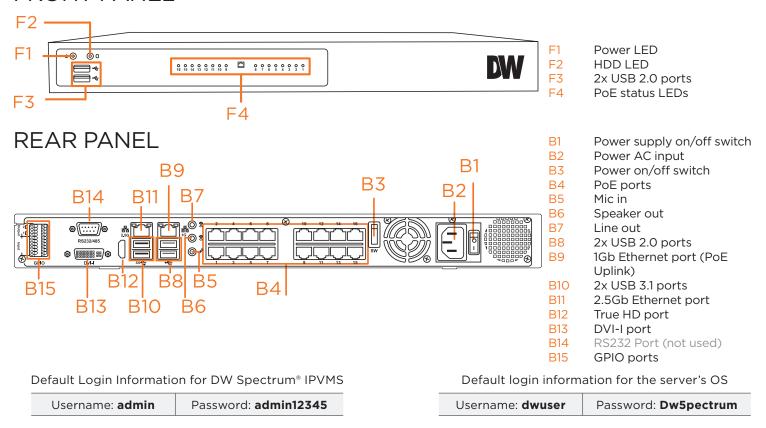
- 1. Go to: http://www.digital-watchdog.com/support-download/.
- 2. Search your product by entering the part number in the 'Search by Product' search bar. Results for applicable part numbers will populate automatically based on the part number you enter.
- 3. Click 'Search'. All supported materials, 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.



FRONT PANEL



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

DESCRIPTIO	N	DW-BJCX		
Included IP I	icenses	4		
Form factor		PoE standalone NVR		
Operating sy	/stem	Linux Ubuntu®		
OS on SSD		Yes		
CPU		Intel® processor		
Memory		8GB		
Ethernet por	t	2x gigabit Ethernet ports (RJ45)		
Local PoE po	orts	802.3af support 16 ports x 10/100 PoE, 15W per port (240W max PSE)		
Alarm in/out		4x alarm inputs / 2 alarm outputs via terminal block		
Audio in/out		1x line-in / 1x line-out / 1 microphone input		
Max support	ed cameras	16 PoE/PoE+ ports, 8 virtual channels, total 24 cameras		
Max video s	torage rate (Mbps)	80 Mbps		
Maximum HDD		2x 3.5" SATA HDD, up to 40TB models		
Storage	USB interface	2x USB 3.1 ports, 4x USB 2.0 ports		
Video-out	Outputs	1x true HD, 1x DVI-I for system configuration. 1 display output at a time.		
Pre-loaded \	/MS software	DW Spectrum® IPVMS Server		
Keyboard ar	nd mouse	Included		
Rail kit		DW-BJCXRM 19" rack mount ears included. Wall mount rack available. Sold separately		
Power suppl	у	AC 100V-240V 410W**		
Operating to	emperature	32°F-104°F (0°C-40°C)		
Operating h	umidity	10-90% RH		
Dimension (WxDxH)	16.92" (W) x 1.75" (H) x 13.7" (D) (430mm (W) x 44.5mm (H) x 348mm (D))		
Other certific	cation	NDAA, TAA		
Warranty		5 year limited		

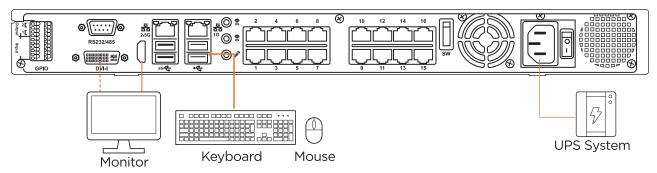
SETTING UP THE SERVER

STEP 1: Connect external devices, power and network.

1. Connect a monitor, USB keyboard, USB mouse and the LAN side of the network cable to one 2.5Gb Ethernet port (B11 on the diagram). Connect the cameras to the PoE ports when the unit is fully booted to the OS.

NOTE See page 2 for detailed back panel breakdown for each model.

- 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 back of the server. (B3 on the diagram).
 - * Connecting the power cable to the live power source may turn on the server automatically.
 - ** If the power does not turn on, verify the power supply switch is on.

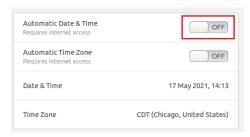


STEP 2: Configure the date and time

- 1. Open Settings > Details.
- 2. Click Date &Time.



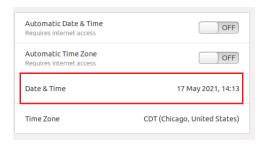
3. Turn OFF Automatic Date & Time and Automatic Time Zone.





STEP 2: Configure date and time (cont.)

- 4. Click Date & Time and set the correct date and time.
- 5. Click Time Zone and set it to the correct Time Zone (type one of the largest cities in the time zone).





7. Close Settings.

STEP 3: Configure the network settings

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

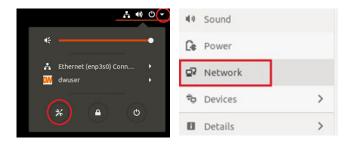
	Camera network	Local network (enp5s0)
IP address	Auto assign from DHCP range 10.110.210.101 to 10.110.210.150	
Subnet mask / Netmask	255.255.255.0	
Default gateway / Gateway	Not applicable	
DNS servers	Not applicable	

- * Camera network and local network cannot be on the same network.
- * Cameras connected to the PoE ports before boot-up may not need to power cycle the get IP assigned.

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 > Network

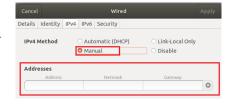


2. Click Setting of the Ethernet that is Connected.



- 3. Change to Manual, then enter Address, Netmask and Gateway.
 - * Do not enter Gateway information if there is no Gateway in this network.
- 4. Click Apply to save.

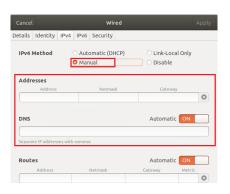




5. Restart the connection by switching OFF, then turn it ON.



- 6. Click Settings of the Ethernet not connected.
- 7. Change to Manual, then enter Address, Netmask, Gateway and DNS.
- 8. Click Apply to save.
- 9. 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 THE 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. If the pre-configured server does not automatically log in, enter the password and click Connect. *Default password: admin12345 (case sensitive).

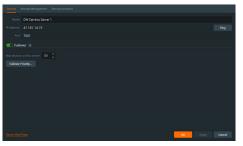




STEP 2: To rename the server

- 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

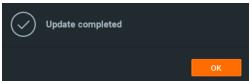
- 1. Click on the menu then click "System Administration."
- 2. Go to the updates tab. If the system requires updating, click on the update system button.





- * 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.



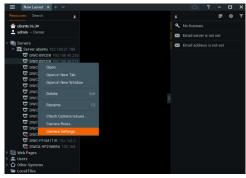


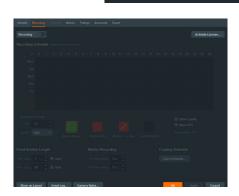
STEP 4: Enter and activate licenses

- 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 "Activate Trial License" if you have not purchased a valid license key.
- 3. Click OK when the license key is activated.

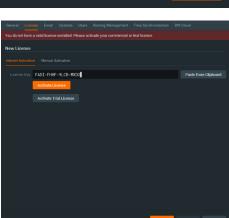
STEP 5: Configure the recording

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



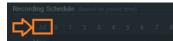


- 3. Click Recording to turn on the recording.
- 4. Configure the camera's schedule settings for quality, FPS and recording type.
- 5. Click and drag the mouse over the recording schedule to apply the settings to multiple days and times.

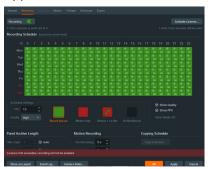


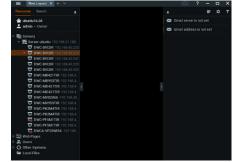
License activated





- * 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.



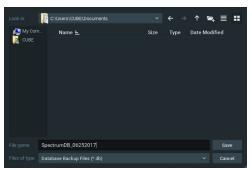


NOTE: A Recording License is required to allow each camera to the archive.

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 create a Database Backup to external storage media before and after every update if a system restore point is needed.





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

NOTE: This products is covered by one or more claims of the HEVC Patents listed at patentlist.accessadvance.com.



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 the complete 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 ensure the camera is correctly connected to the network. If you can connect to the camera's web viewer, try rebooting the camera and/or restoring it to factory default. Ensure your camera is using the latest firmware available. Ensure that the camera is connected to the same network as the server. If you connect to a camera integrated with DW Spectrum via the ONVIF protocol (see list), ensure 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 the client and the server (in case server and client are not on the same machine)? Make sure your user has playback viewing permissions for the selected channel. Ensure the camera is set to a recording mode that provides 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	 Ensure the camera's username and password are entered correctly 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.

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 GE or larger
	Microsoft Wii	ndows OS (supported by both DW Spectrum® S	Server and Client).	
	Windows SeWindows SeWindows SeWindows SeWindows Se	- Released: July 2015 rver 2012 - Released: August 2012 EoS: 10/202 rver 2012 - Released: August 2012 EoS: 10/202 rver 2016 R2 - Released: October 2013 EoS: 11/202 rver 2019 - Released: October 2018 EoS: 01/202 rver 2022 - Released: August 2021 EoS: 10/203 Spectrum IPVMS for Windows can be installed a	0/2023 027 029 31	oftware can be installed separately.
	Ubuntu (Debi			
OS		an-based Linux) OS (supported by both DW S	pectrum Server and Client).	
OS supported	• Ubuntu 16.04 • Ubuntu 18.04	an-based Linux) OS (supported by both DW S 4 LTS "Xenial Xerus" – Released: April 2016 Eo: 4 LTS "Bionic Beaver" – Released: April 2018 E 4 LTS: "Focal Fossa" – Released: April 2020 Eo	S: 04/2024 oS: 04/2028	
	• Ubuntu 16.0• • Ubuntu 18.0• • Ubuntu 20.0	4 LTS "Xenial Xerus" - Released: April 2016 Eo: 4 LTS "Bionic Beaver" - Released: April 2018 E	.5: 04/2024 oS: 04/2028 oS: 04/2030	
	• Ubuntu 16.0- • Ubuntu 18.0- • Ubuntu 20.0 **NOTE: DW \$	4 LTS "Xenial Xerus" - Released: April 2016 Eo: 4 LTS "Bionic Beaver" - Released: April 2018 E 4 LTS: "Focal Fossa" - Released: April 2020 Eo	s: 04/2024 os: 04/2028 os: 04/2030 r separate installations (not bundled).	s).
	• Ubuntu 16.0 • Ubuntu 18.0 • Ubuntu 20.0 **NOTE: DW 9 Macintosh OS • macOS 10.14 • macOS 10.15 • macOS 11.0,	4 LTS "Xenial Xerus" - Released: April 2016 Eo: 4 LTS "Bionic Beaver" - Released: April 2018 E 4 LTS: "Focal Fossa" - Released: April 2020 Eo Spectrum IPVMS for Ubuntu is only available for	s: 04/2024 os: 04/2028 os: 04/2030 r separate installations (not bundled).	r)).

* Except Storage Server version

Important: OS not listed will not be supported by $\mathsf{DW}^{\$}$

Tel: +1 (866) 446-3595 Fax: (813) 888-9262

