



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

	DW-BJT71xxT/LX	DW-BJTR7	15xxT/LX/S	DW-BJTR	716xxT/LX/S	5		
ma	tion for DW Spectr	Blackjack DW		Default lo	ogin informa	ation for t	he server's O	S
	Password: admin12			Username	Í		rd: <b>Dw5pectrı</b>	
				Username	uwuser	FasSWO		
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Blackjack Tower full-size servers — Up to 600Mbps.

Default Login Inform

Username: admin assword: **Dw5pectrum** Blackiack Tower™ 1 Keyboard and mouse 1 set server Quick start guide 1 Power cable 1

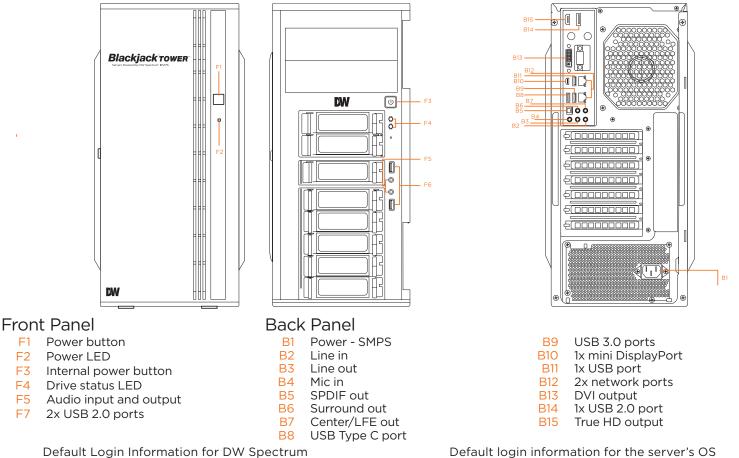
NOTE: Download all your support materials and tools in one place.

- 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**<sup>\*</sup>Tower<sup>\*\*</sup>

### BLACKJACK<sup>®</sup> TOWER<sup>™</sup> FULL-SIZE



Username: admin

### Password: admin12345 SPECIFICATIONS

	PART NUMBER	DW-BJT71xxT	DW-BJTR715xxT/DW-BJTR716xxT		
Included IP licenses		4	4		
Form factor		Full Tower	Full Tower		
	Windows 11	DW-BJT71xxT	DW-BJTR715xxT/DW-BJTR716xxT		
Operating	Linux Ubuntu OS	DW-BJT71xxTLX	DW-BJTR715xxTLX/DW-BJTR716xxTLX		
system	Windows Server	N/A	DW-BJTR715xxTS/DW-BJTR716xxTS		
	OS on SSD	240GB SSD	240GB SSD		
CPU		Intel Core i7 processor	Intel Core i7 processor		
Memory		16GB	16GB		
Ethernet port		2x 1G Ethernet	2x 1G Ethernet		
System Max video storage rate (Mbps)		600Mbps	RAID5: 600Mbps RAID6: 420Mbps		
	Maximum HDD	7 x 3.5 SATA HDD, Hot-Swappable	7 x 3.5 SATA HDD, Hot-Swappable		
Storage	Maximum storage	140TB	140TB raw storage (120TB RAID5, 100TB RAID6)		
Storage	RAID options	N/A	RAID5, RAID6		
	USB interface	Yes	Yes		
	Outputs	1x true HD, 1x DVI, 1x DisplayPort, for system configuration. Maximum 1 display output at a time.	1x true HD, 1x DVI, 1x DisplayPort, for system configuration Maximum 1 display output at a time.		
Video-out	Video card	On-board Intel Graphics	On-board Intel Graphics		
	Resolution	1920 x 1080	1920 × 1080		
Pre-loaded VM	S software	DW Spectrum® IPVMS	DW Spectrum® IPVMS		
Remote clients		Cross-platform - Windows*, Linux Ubuntu* and Mac*	Cross-platform - Windows*, Linux Ubuntu* and Mac*		
Keyboard and r	mouse	Included	Included		
Power supply		500W**	500W**		
Operating temp	perature	41°F~104°F (5°C~40°C)	41°F~104°F (5°C~40°C)		
Operating hum	idity	20~90% RH	20~90% RH		
Dimension (Wx	(DxH)	8.6" x 19.12" x 16.83" (218.6 x 485.8 x 427.5 mm)	8.6" x 19.12" x 16.83" (218.6 x 485.8 x 427.5 mm)		
Other certificat	ion	UL, FCC, CE, NDAA, TAA	UL, FCC, CE, NDAA, TAA		
Warranty		5 vear limited	5 year limited		

\* For 10TB HDD - RAID5 Configuration reduces raw storage size by the equivalent of one (1) HDD size \* For 10TB HDD - RAID6 Configuration reduces raw storage size by the equivalent of two (2) HDD size \*\* UPS recommended

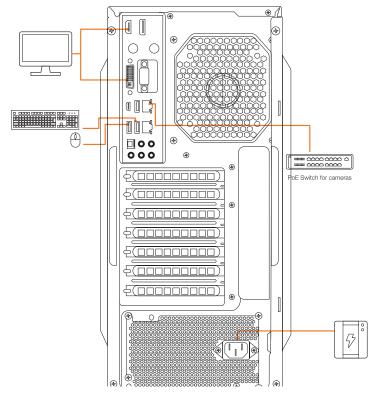
Username: dwuser

Password: Dw5pectrum

## 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.
- 2. Connect the server to an appropriate power source. UPS system rated for 3000VA or higher per PSU is recommended.
- Power up the server, if it does not turn on automatically by pressing the power button on the front (F1 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 OS:

1.

- Double-click on the **Date and Time** icon on the desktop.
- 2. The default time zone is UTC-08:00 Pacific Time. Click **Change time zone...** to change to the correct time zone.

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ime zone:	
(UTC-08:00) Pacific Time (US & Canada)	~
(UTC-08:00) Pacific Time (US & Canada)	^
(UTC-07:00) Arizona	
(UTC-07:00) Chihuahua, La Paz, Mazatlan	
(UTC-07:00) Mountain Time (US & Canada)	
(UTC-06:00) Central America	
(UTC-06:00) Central Time (US & Canada)	
(UTC-06:00) Easter Island	
(UTC-06:00) Guadalajara, Mexico City, Monterrey	
(UTC-06:00) Saskatchewan	
(UTC-05:00) Bogota, Lima, Quito, Rio Branco	
(UTC-05:00) Chetumal	
(UTC-05:00) Eastern Time (US & Canada)	

- 3. Click **OK** after selecting the correct time zone.
- Click Change date and time... to update the date and time if incorrect.
   NOTE: Verify the time zone before updating the date and time. Time may show 2 or 3 hours off due to an incorrect time zone.

# Blackjack\*tower\*

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har	ige ci	alen	dar se	etting	gs		

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

#### Linux OS:

1. Open Settings and go to Details > Date &Time.

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40	Mouse & Touchpad     Keyboard Shortcuts     Printers	Automatic Date & Time
🖧 Intel Ethernet Connected 🕨 🕨	Princers  Removable Media  Color	Date & Time 16 February 2023, 10.38 Time Zone PST (Los Angeles, United States)
Settings Lock	<ul> <li>Region &amp; Language</li> <li>Universal Access</li> </ul>	Time Format 24-hour 👻
U Power Off / Log Out ►	<ul> <li>Users</li> <li>Default Applications</li> </ul>	
	① Date & Time	

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

Automatic Date & Time Requires internet access	
Automatic Time Zone Requires location services enabled and internet access	$\bigcirc$
Date & Time	16 February 2023, 10:39
Time Zone	PST (Los Angeles, United States)
Time Format	24-hour 👻

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

	Di	ate & Time			
+	+	Month	Febru	агу	•
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-	-	Year	2023	-	+

4. Click Time Zone and set it to the correct Time zone. (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	N/A	
DNS servers	N/A	

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

**NOTE** The Blackjack server's network settings are set to DHCP by default.

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

#### Windows OS:

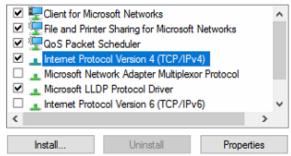
1.

- Double-click on Network Connections on the desktop.
- 2. Right-click Ethernet (connected) and click Properties.



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

#### This connection uses the following items:



## Blackjack\*tower\*

- 4. Click the Use the following IP address: radio button Use the following DNS server addresses: will be selected automatically.
- 5. Enter the local network's IP address, subnet mask, and preferred and alternate DNS server addresses.
- 6. Click **OK** to close the window and again for the properties window.

**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.

#### Local Network

- 7. Right-click on the Ethernet (Network cable unplugged) and click Properties.
- 8. Select Internet Protocol Version 4 (TCP/IPv4) and click Properties.

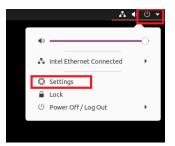
This connection uses the following items:								
Client for Microsoft Networks	^							
🗹 🖳 File and Printer Sharing for Microsoft Networks								
QoS Packet Scheduler								
Internet Protocol Version 4 (TCP/IPv4)								
Microsoft Network Adapter Multiplexor Protocol								
Microsoft LLDP Protocol Driver								
Internet Protocol Version 6 (TCP/IPv6)								
< >								
Install Uninstall Properties								

- 9. Click the Use the following IP address: radio button Use the following DNS server addresses: will be selected automatically.
- 10. Enter the IP address and subnet mask of the camera network. Leave the default gateway and preferred and alternate DNS server fields blank.
- 11. Click **OK** to close the window and again for the properties window.
- 12. Connect a network cable to Ethernet port B5 (2.5G LAN) on the rear panel diagram to activate the local network connection.
- 13. Close the network connections window.



#### Linux OS:

1. Open Settings > Network



2. Click Setting of the Realtek Ethernet.

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¢	Background	Connected - 1000 Mb/s		
ø	Appearance	Realtek Ethernet	+	
0	Notifications	Cable unplugged		
Q	Search			

- 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 it OFF and then turning it ON. If the connection is off, connect the network cable.



- 6. Click Settings of the Intel Ethernet.
- 7. Change the settings to access the Internet and remote access from a local network.
- 8. Click Apply to save.
- 9. Restart the connection by switching it OFF and then turning it ON. If the connection is off, connect the network cable.



**NOTE** If you are not connecting to the Blackjack<sup>\*</sup> 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.

## SETTING UP DW SPECTRUM MEDIA SERVER

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

**STEP 1:** Login from the Blackjack' server



- 1. Open the DW Spectrum client.
- 2. Click on the pre-configured server.
- 3. If it does not log in automatically, enter the default password and click  ${\bf Connect}.$

## **Blackjack tower**

<b>W</b> spectrum			<b>nw</b> spect	rum <sup>°</sup> IPVMS	
BIANOX	<b>E9</b>		BJAIHDX Address localhost/7001 Login admin		
Log in to DW Cloud	Connect to Server	Log in to DW Cloud	Password  Remember me Connect	×	Connect to Server

#### **STEP 2:** To rename the server

- 1. Right-click on the server name in the resource list on the left side and click Server Settings...
- 2. Enter the new server name in the name field and click **OK**.

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			Check out DWCBoud - connect to your System from anywhere!			
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<ul> <li></li></ul>	Resume 12		Updates Settings	Port		
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Annow-cost     Local Tites	Server Logs Server Disgnostics					
	Server Web Page			Colore Failove	er 💿	
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#### **STEP 3:** To check for updates

- 1. Click the main menu icon in the upper-left corner of the DW Spectrum window, and click System Administration...
- 2. Click the **Updates** tab. If the system needs to be updated, click on the **Update** button.

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Disconnect from Server	Ctrl+Shift+D
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Open	>
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Start Screen Recording	Alt+R
System Administration	Ctrl+Alt+A
User Management	
Local Settings	
Audit Trail	
Bookmark Log	Ctrl+B

\* If the latest version is already installed, the message "The latest version is already installed" will be visible at the top.

3. Click **OK** when the update is complete.

## **Quick Start Guide**

specific Build ∽ 6.0. X.XXXXX	() Advanced settings	Ready to update to 6.0.X.XXXXXX		DW DW Spectrum Client	? ×		
		Release notes		Update completed			
BREAKING CHANGES *Support for Munosoft HVAmes 8 1 and Microsoft Windows Server 2012 in discontinued. *Support for Rappheny P3 will be discontinued in the next major release (6.1) *Support for Rappheny P3 will be discontinued in the next management of the server of the server of the server Support for Rappheny P3 will be discontinued in the next management of the server of t		BREAKING CHANGES Report for Manie 11 Bd will be descriment in the next magnetized (6.0.) *Support for Manie 11 Bd will be discriment in the next magnetized (6.0.)					
		*Support for Raspberry OS 10 will be discontinued in the next major release (6.1).			ок		
Download 👱 Get Update File		Install undata Cancel					

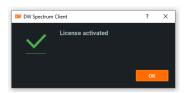
#### **STEP 4:** Activate licenses

NOTE: An active Internet connection is required.

- 1. Click the main menu icon in the upper-left corner of the DW Spectrum window, and click System Administration...
- 2. Click the Licenses tab. Enter the license key and click Activate License.

	User Management	Updates	Licenses		DW Cloud			Plugins	Advanced
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	Key RNSC-KOVB	-DGCG-SF(	GG			Ç	ට Paste	Activate	License
	Activate Fre	ee License							

- \* Click Activate Free License to use a free, four-channel license for 30 days.
- 3. Click **OK** when all necessary license keys are activated.



#### STEP 5: Configure recording

- 1. Right-click a camera in the resource list on the left side and click Camera Settings...
- 2. Click the **Recording** tab.

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												ок	,	Apply	

- 3. Click the **Recording** toggle to activate recording for that camera.
- 4. Set quality, FPS, and recording type.
- 5. Click and drag over the recording schedule to apply the settings to any number of days and times.

# Blackjack\*tower

DW Cam	iera Se	ttings	- DWG	C-MV7	2Di28	T - DV	/ Spec	trum (	Client															:	×
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Tue	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	Hi 15	
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\* Click **All** to apply the recording settings to the entire schedule.

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Reco	rding																							
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All	12am		2ам	Зам	4ам	5ам	бам		8ам	9ам	10ам		12рм		2рм	Зрм	4рм	5рм	6рм		8рм	9рм	10рм	
Sun	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi
Mon	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi
Tue	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi		15 Hi														
Wed	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi
Thu	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi	15 Hi
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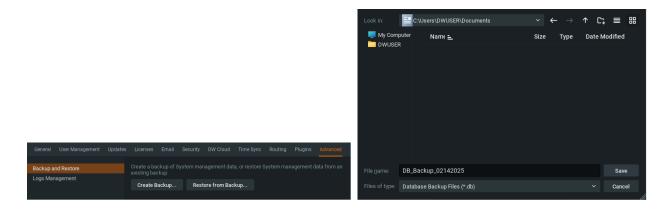
6. Click **OK** when the necessary recording schedule is set. A red circle will appear next to the camera in the resource list.

$\blacksquare$ New Layout 1 × + $\checkmark$	
Q ∽ Search	
合 BJAIHDX	
💄 admin	
- 👼 Server DW-BJAIHDX5108T	
DWC-MV72Di28T	
Web Pages	
A. Other Systems	
🗁 Local Files	
A Other Systems	

**NOTE:** A Recording License is required to allow a camera to record to the archive.

#### STEP 6: Backup database

- 1. Click the main menu icon in the upper-left corner of the DW Spectrum window, and click System Administration...
- 2. Click the Advanced tab. Click Create Backup...
- 3. Select the location to save the database, and enter a name for the backup file. Click **Save**.
- \* Creating a database backup to external storage before and after every update is strongly recommended.



NOTE: More information and instructions are available in the DW Spectrum<sup>®</sup> 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
A camera or other device is not automatically discovered.	<ol> <li>The device must be on the same local network as the media server.</li> <li>The device must be compatible with DW Spectrum. Refer to the full list of supported cameras on digital-watchdog.com</li> <li>Update the device with the latest firmware.</li> <li>Ensure ONVIF is enabled on the device.</li> <li>Add the camera manually.</li> <li>Reboot the server after installation. Allow up to 2 minutes for the server to detect all supported devices.</li> </ol>
Slow video	<ol> <li>The same camera(s) could be accessed by multiple clients simultaneously.</li> <li>Check network speed.</li> </ol>
Device appears disconnected	<ol> <li>Ensure the username and password are correct in device settings.</li> <li>Click the ping button in device settings to ensure the camera is connected to the network.</li> <li>Reboot or restore the device to the factory default if its web page is available.</li> <li>Update the device with the latest firmware.</li> <li>The device must be on the same local network as the media server.</li> <li>Ensure ONVIF is enabled on the device.</li> <li>The user may not have the necessary permissions to view that device.</li> </ol>
Cannot view archived video	<ol> <li>Ensure there is an active network connection between the client and server.</li> <li>The user may not have the necessary permissions to view the archive from that device.</li> <li>The camera may be set to a recording mode that does not record video for the selected time and environment.</li> <li>Check the log on the media server to ensure the device did not unexpectedly disconnect.</li> </ol>
"Unauthorized" message on a device	<ol> <li>Ensure the username and password are correct in the device's settings.</li> <li>Reboot the camera.</li> </ol>

## **DW SPECTRUM SYSTEM REQUIREMENTS**

### **Recommended specs for the full client**

	Minimum	Recommended								
Processor	Intel i5 8th gen processor (or higher)	Intel Core i7 8th gen processor (or higher)								
System RAM	8GB RAM	16GB RAM								
Video card	Integrated Intel graphics	GeForce GTX 1650 or better								
Network interface	2 x 1 Gbps	2 x 1 Gbps								
OS Drive	256GB HDD Dedicated 256GB SSD or larger									
OS supported	Microsoft Windows OS (supported by both DW Spectrum® Server • Windows 10 • Windows 11 • Windows Server 2016 • Windows Server 2019 • Windows Server 2022 **NOTE: DW Spectrum for Windows can be installed as a software 1 Ubuntu (Debian-based Linux) OS (supported by both DW Spectru • Ubuntu 18.04 LTS "Bionic Beaver" • Ubuntu 20.04 LTS: "Focal Fossa" • Ubuntu 22.04 LTS: "Focal Fossa" • Ubuntu 22.04 LTS: "Jammy Jellyfish" **NOTE: DW Spectrum for Ubuntu is only available for separate inst Macintosh OS (supported only by the DW Spectrum Client. DW Spectru • macOS 11.0, 11.1, 11.2 "Big Sur" • macOS 12 "Monterey" • macOS 12 "Monterey" **NOTE: DW Spectrum for macOS is only supported by the DW Spectrum Spectrum for macOS is only supported by the DW Spectrum Spectrum Spectrum for macOS is only supported by the DW Spectrum Spectrum Spectrum for macOS is only supported by the DW Spectrum Spectrum Spectrum for macOS is only supported by the DW Spectrum Spectrum Spectrum Spectrum for macOS is only supported by the DW Spectrum Spectr	bundle, or the Server and Client software can be installed separately. m Server and Client). allations (not bundled). ectrum Server is unavailable for macOS).								

\* Except Storage Server version

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

**D**W.

www.digital-watchdog.com sales@digital-watchdog.com