



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

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



Default login for DW Spectrum® IPVMS

Default login for Windows®

| Usernam | e: admin Password | d: admin12345 | Usernar | ne: dwuser Passv | vord: Dw5pectrum | | | | |
|----------------------------|--------------------------|---------------|--------------------|---------------------------------------|------------------|--|--|--|--|
| WHAT'S IN THE BOX | | | | | | | | | |
| Blackjack Tower™ server | | 1 | Keyboard and mouse | a a a a a a a a a a a a a a a a a a a | 1 set | | | | |
| Quick start guide | | 1 | Power cable | | 1 | | | | |

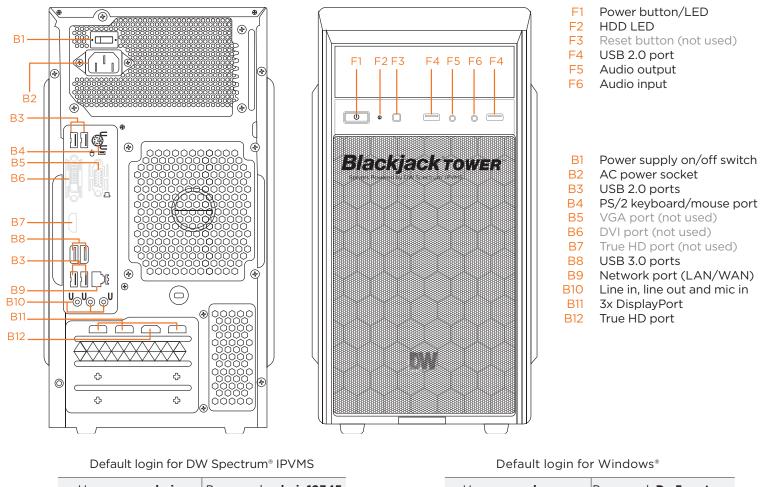
NOTE: Download all your support materials and tools in one place.

- 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



Username: admin Password: admin12345

| | Username: dwuser | Password: Dw5pectrum |
|---|-------------------------|----------------------|
| - | | |

SPECIFICATIONS

| PART NU | MBER | DW-BJMTC5204T | DW-BJMTC7404T | | | |
|-------------|----------------------|--|----------------------------------|--|--|--|
| Form factor | | Mid-Tower | | | | |
| Operating | g system | Windo | ows*10 | | | |
| OS on SS | D | 240G | iB SSD | | | |
| CPU | | Intel [®] i5 [®] processor | Intel* i7* processor | | | |
| Memory | | 16GB | 32GB | | | |
| Ethernet | port | 1 x 1G E | Ethernet | | | |
| | Outputs | 1 x true HD, 1 x DVI, 1 x Display Port or 1x true HD, 3x Display Port | 1 x true HD, 3 x Display Port | | | |
| Video | Simultaneous Outputs | Maximum any 2 ports simultaneously | Maximum 4 ports simultaneously | | | |
| | Video card | GTX1650 or comparable | RTX3060 or comparable | | | |
| | Resolution | 7680×4320 | | | | |
| Preloade | d VMS software | DW Spectrum* IPVMS client | | | | |
| Remote c | lients | Cross-platform - Windows*, Linux Ubuntu* and Mac* | | | | |
| Mobile ap | pps | iOS* and | iOS* and Android* | | | |
| Keyboarc | l and mouse | Inclu | uded | | | |
| Power su | pply | 400W** | 500W** | | | |
| Operating | g temperature | 41°F-104°F (5°C-40°C) | | | | |
| Operating | g humidity | 20-90% RH | | | | |
| Dimensio | n (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 | | | | |

Quick Start Guide

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.

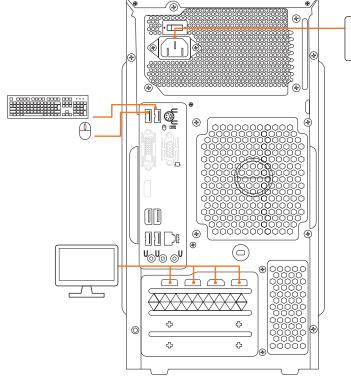
2. Connect the server to an appropriate power source. It is recommended to use a UPS system.

* 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

💣 Time Zone Settings \times Set the time zone: Time 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)

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.

Change time zone...



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

Change date and time...



| 💣 Da | Date and Time Settings | | | | | | | × | |
|--------------------------------------|------------------------------------|--------------------|--------|-----|-------------------------------------|-------------------------------------|---------------|---|--|
| Set ti | ne da | te ar | nd tir | ne: | | | | | |
| Date: | | | | | | | Time: | | |
| 4 | | м | ay 20 | 18 | | • | N. T. Y. | | |
| Su 29 6 13 20 27 3 | 30 7 14 21 | 1 8 15 22 | | 3 | Fr 4 11 18 25 1 8 | Sa 5 12 19 26 2 9 | 11:16:32 AM ÷ | | |
| <u>Char</u> | Change calendar settings OK Cancel | | | | | | | | |

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 | |

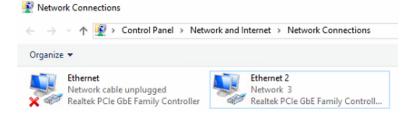
* The camera network and local network cannot be on the same network.

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

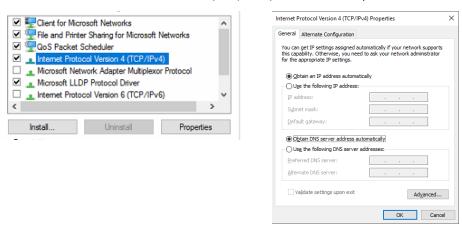
NOTE If you are not sure what information to enter, contact your Network Administrator or Internet Service Provider for the information.

Windows[®]

- Network Connections
- 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.

| Internet Protocol Version 4 (TCP/IPv4) Properties | | | | | | | |
|---|---------------------|--|--|--|--|--|--|
| General | | | | | | | |
| You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. | | | | | | | |
| O Obtain an IP address automatical | у | | | | | | |
| Use the following IP address: | | | | | | | |
| IP address: | 192 . 168 . 10 . 10 | | | | | | |
| Subnet mask: | 255 . 255 . 255 . 0 | | | | | | |
| Default gateway: | | | | | | | |
| Obtain DNS server address autom | atically | | | | | | |
| • Use the following DNS server add | resses: | | | | | | |
| Preferred DNS server: | | | | | | | |
| Alternate DNS server: | | | | | | | |
| Vajidate settings upon exit | Ad <u>v</u> anced | | | | | | |
| | OK Cancel | | | | | | |

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".

| 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 | | | | | | |



| Internet F | Protocol Version 4 (TCP/IPv4 | 4) Prop | ertie | s | | | × | | | |
|---|-------------------------------|---------|-------|----|-----|--------|---|--|--|--|
| General | Alternate Configuration | | | | | | | | | |
| You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. | | | | | | | | | | |
| Obtain an IP address automatically | | | | | | | | | | |
| | e the following IP address: — | | | | | | | | | |
| ĮP ad | ldress: | | | | 1. | | | | | |
| Sybr | iet mask: | | | | | | | | | |
| Defa | ult gateway: | | 1 | | | | | | | |
| | otain DNS server address auto | matica | ly | | | | | | | |
| OUs | e the following DNS server ad | dresse | s: | | | | | | | |
| Prefe | erred DNS server: | | | | | | | | | |
| Alter | nate DNS server: | | | | | | | | | |
| V | alidate settings upon exit | | | | Ady | vanced | | | | |
| | | | | ОК | | Cancel | | | | |

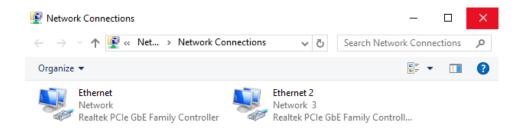
9. Select "Use the following IP address" (Use the following DNS server addresses will be selected automatically).10. Enter the IP address and subnet mask of the camera network.

| Internet Protocol Version 4 (TCP/IPv4) Properties | | | | | | | |
|---|---------------------|-----|--|--|--|--|--|
| General | | | | | | | |
| You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings. | | | | | | | |
| ODbtain an IP address automatical | ly | | | | | | |
| • Use the following IP address: | | - 1 | | | | | |
| IP address: | 10 . 1 . 1 . 10 | | | | | | |
| Subnet mask: | 255 . 255 . 255 . 0 | | | | | | |
| Default gateway: | 10 . 1 . 1 . 1 | | | | | | |
| Obtain DNS server address auton | natically | | | | | | |
| • Use the following DNS server add | resses: | - 1 | | | | | |
| Preferred DNS server: | 8.8.8.8 | | | | | | |
| Alternate DNS server: | 8.8.4.4 | | | | | | |
| Validate settings upon exit Advanced | | | | | | | |
| | OK Cance | I | | | | | |

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.

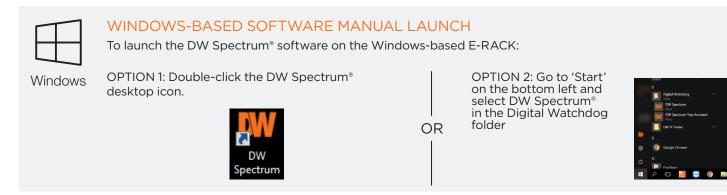


Quick Start Guide

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



SETTING UP DW SPECTRUM® MEDIA SERVER

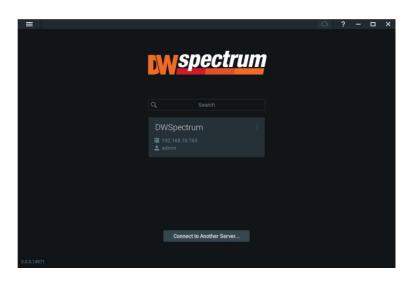
Login: **admin** Password: **admin12345**

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.



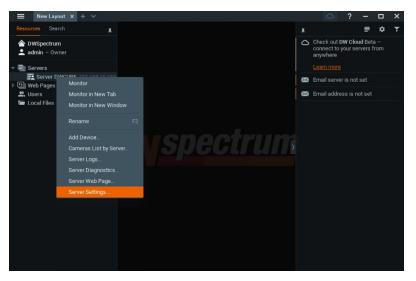


- 3. Enter the password and click connect.
 - * Default password: admin12345 (case sensitive).

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| | Connect to Another Server | | | | | |
| | connect to Another Server | | | | | |
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| 3.0.0.14971 | | | | | | |

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.

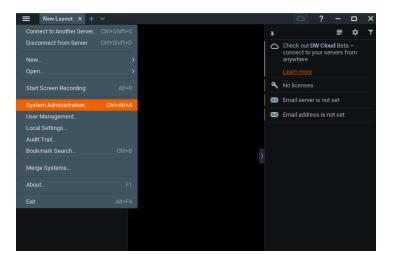
| General | Storage Management Stor | age Analytics | | | | |
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| | Server Spectrum101 | | | | | |
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STEP 3: To check for updates

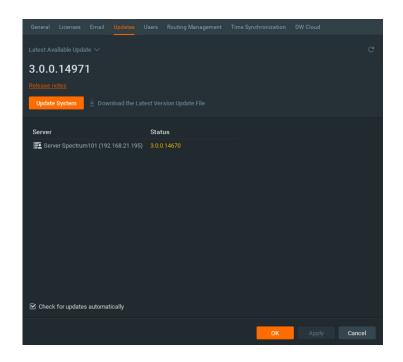
1. Click on the menu

E

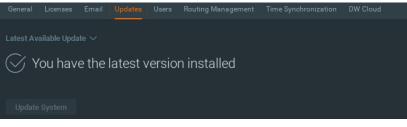
then click "System Administration".



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

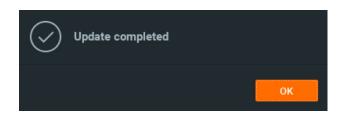


* If you are on the latest version, it will say "You have the latest version installed" and the Update System button will be disabled.





3. Click OK when the update is completed.

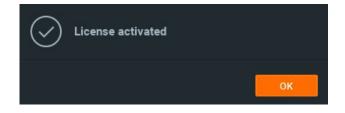


STEP 4: Enter and activate licenses

- 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.

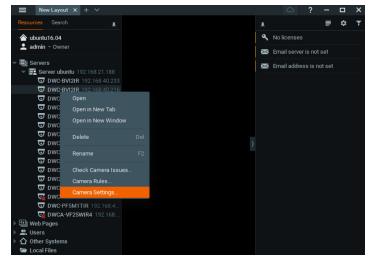
| General Licer | nses Email | Updates Us | ers Routing Management | Time Synchronization | DW Cloud | |
|--------------------|-----------------|------------------|----------------------------|----------------------|-----------|-------------|
| You do not have | a valid license | installed. Pleas | e activate your commercial | or trial license. | | |
| New License | | | | | | |
| Internet Activatio | on Manual A | | | | | |
| | | | | | | |
| License Key | FADI-FHHF | -9LCB-MXDO | | | Paste fro | m Clipboard |
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| | | | | OK | жрру | Cancel |

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.

| General | Rec | ordin | g | l/O po | orts | Motio | on | Fishey | /e | Advar | nced | Exp | ert | | | | | | | | | | | | |
|----------------------|-------|-------|---|--------|--------|-------|----|--------|------|-------|------|-----|-----|--|--|--|--|--|---|----|--|-------|--------|-------|------|
| Recordin | na | | | | | | | | | | | | | | | | | | | | | A | tivate | Licen | se |
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| Fixed Archive Length | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Max. Days | | | | | | | | | | | | | | | | | | | | | | | | | |
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3. Click Recording

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.

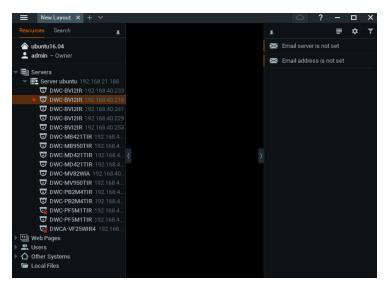
| Recording | | | | | | | | | | | | | | | | | | | | |
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* Click "All" to apply the recording settings to the entire schedule.

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 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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| Fixed Archive Length | | | | | | | | Motion Recording | | | | | | | | | Copying Schedule | | | | | | | | |
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| Show on L | ayout | | Ever | nt Log | | C | amera | a Rule | s | | | | | | | | | | ок | | | Apply | | Cano | e |

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

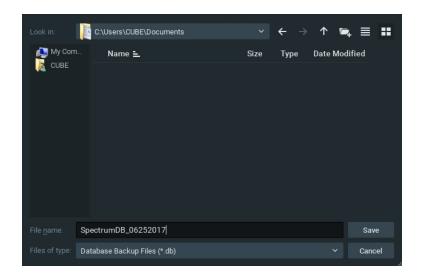


STEP 6: Backup database

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

| DWSpectrum Image: Control Image: Control <t< th=""><th>General Licenses</th><th></th><th></th><th></th><th></th><th></th></t<> | General Licenses | | | | | |
|---|---------------------|------------------------|-----------------|-----------------|-------------------|-----------|
| Image: Constraint of the second s | DWSpectru | m 🖍 | | | | |
| System Settings | Ŷ | <u>ڳ</u> | <u>ē</u> — | <u>ه</u> | | |
| Enable cameras and servers auto discovery Enable audit trail Send anonymous usage and crash statistics to software developers (recommended) Allow System to optimize camera settings (recommended) Backup and Restore Create Backup Restore from Backup You can create a backup for System configurations that can be restored in case of failure. | Event Rules | Event Log | Camera List | Audit Trail | Health Monitoring | Bookmarks |
| Enable audit trail Send anonymous usage and crash statistics to software developers (recommended) Allow System to optimize camera settings (recommended) Backup and Restore Create Backup Restore from Backup You can create a backup for System configurations that can be restored in case of failure. | System Settings | | | | | |
| Send anonymous usage and crash statistics to software developers (recommended) Allow System to optimize camera settings (recommended) Backup and Restore Create Backup Restore from Backup You can create a backup for System configurations that can be restored in case of failure. | | d servers auto discove | ery | | | |
| Allow System to optimize camera settings (recommended) Backup and Restore Create Backup Restore from Backup You can create a backup for System configurations that can be restored in case of failure. | | | | | | |
| Backup and Restore Create Backup You can create a backup for System configurations that can be restored in case of failure. | | | | pers (recommend | | |
| Create Backup Restore from Backup You can create a backup for System configurations that can be restored in case of failure. | Allow System to opt | imize camera setting | s (recommended) | | | |
| You can create a backup for System configurations that can be restored in case of failure. | Backup and Restore | | | | | |
| | Create Backup | Restore from Bac | kup | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| OK Apply Cancel | | | | | ОК Аррі | y Cancel |

- 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. | | | | | | | | | |
| l 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. | | | | | | | | | |
| l 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 | D Graphics onboard GPU or Intel HD Graphics onboard GPU 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 | | | | | | | | |
| 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/Enterprise, 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 | 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). | | | | | | | | | |

* Except Storage Server version

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

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