





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

Blackjack P-Rack – Up to 600Mbps.

| | Linux OS | | | Windows OS | |
|-------------|-------------|--------------|----------|------------|-----------|
| DW-BJP1U-LX | DW-BJP2U-LX | DW-BJPR2U-LX | DW-BJP1U | DW-BJP2U | DW-BJPR2U |



Default Login Information for DW Spectrum

Username: **admin**

Password: admin12345

Default login information for the server's OS
Username: dwuser
Password: Dw5pectrum

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| | | WHAT'S | S IN THE BOX | | | |
|----------------------|---|-----------------------|---------------------------------------|-------|----------|-------|
| P-Rack™ 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 | Rail kit | 1 set |
| Quick start guide | 1 | Power cable | | 1 set | | |

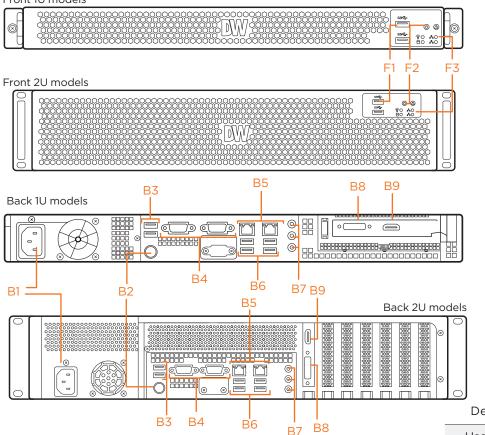
NOTE: Download all your support materials and tools in one place.

- 1. Go to: http://www.digital-watchdog.com/support-download/.
- 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[®] P-RACK[™] HARDWARE





| | | ~ ~ | |
|----|--------|-----|-------|
| F1 | 2x USB | 2.0 | ports |

- F2 Power button
- F3 HDD status LED
- B1 Power input
- B2 Keyboard port (PS2 type)
- B3 USB 2.0 ports
- B4 Serial ports (Not used)
- B5 Network ports
- B6 USB 3.0 ports
- B7 Audio ports
- B8 DVI-I output
- B9 True HD output

Default login information for DW Spectrum

| Username: admin | Password: admin12345 |
|------------------------|----------------------|
|------------------------|----------------------|

Default Login Information for the server's OS

Password: Dw5pectrum

Username: dwuser

SPECIFICATIONS

PART NUMBER DW-BJP1UXT DW-BJP2UXT DW-BJPR2UXXT Included IP licenses 4 4 4 Form facto Rackmount Rackmount Rackmount DW-BJP1UXT DW-BJP2UXT DW-BJPR2UXXT Windows 11 Operating system Linux Ubuntu OS DW-BJP1UXT-LX DW-BJP2UXT-LX DW-BJPR2UXXT-LX OS on SSD 150GB SSD 150GB SSD 150GB SSD CPU Intel i5 processor Intel i7 processor Intel i7 processor Memory 16GB 16GB 16GB 1x1Gigabit Ethernet port (RJ45) 1x 1 Gigabit Ethernet port (RJ45) 1x 1 Gigabit Ethernet port (RJ45) Ethernet port igabit Ethernet port (RJ45 gabit Ethernet port (RJ45 igabit Ethernet port (RJ45) 1x 2 Max video storage System 360 Mbps 600 Mbps 600 Mbps rate (Mbps) Maximum HDD 3 x 3.5 SATA HDD 6 x 3.5 SATA HDD 6 x 3.5 SATA HDD 60TB 120TB 120TB raw storage (100TB RAID5) Maximum storage Storage **RAID** options N/A N/A RAID5 USB interface Yes Yes Yes True HD output or DVI True HD output or DVI True HD output or DVI Outputs Video-out Video card GeForce 210 1024MB GeForce 210 1024MB GeForce 210 1024MB Resolution Max 2560 x 1600 @ 60Hz Max 2560 x 1600 @ 60Hz Max 2560 x 1600 @ 60Hz Pre-loaded VMS software DW Spectrum DW Spectrum DW Spectrum Cross-platform - Windows, Linux Ubuntu and Mac Cross-platform - Windows, Linux Ubuntu and Mac Cross-platform - Windows, Linux Ubuntu and Mac Remote clients Keyboard and mouse Included Included Included Rail kit Included Included Included Power supply 300W** 400W** 400W** 41°F~104°F (5°C~40°C) 41°F~104°F (5°C~40°C) 41°F~104°F (5°C~40°C) Operating temperature 20~90% RH 20~90% RH 20~90% RH Operating humidity Dimension (WxDxH) 17.1875 x 20.065" x 1.75" (437 x 510 x 44.45 mm) 17.3" x 21.9" x 3.5" (439.3 x 5571 x 88.9 mm) 17.3" x 21.9" x 3.5" (439.3 x 5571 x 88.9 mm) Other certification FCC, CE, NDAA, TAA FCC, CE, NDAA, TAA FCC, CE, NDAA, TAA Warranty 5 year limited 5 year limited 5 year limited

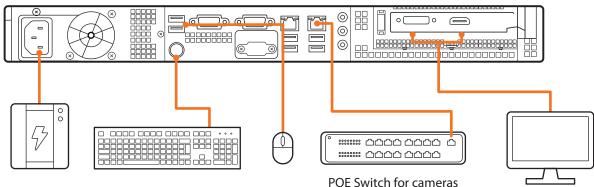
> * Available at time of initial order only / ** UPS recommended Specifications and components mentioned are subject to change without notice.

SETTING UP THE SERVER

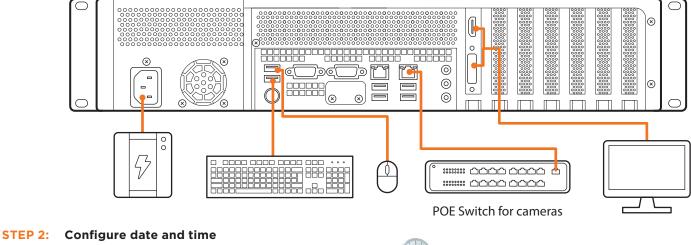
STEP 1: Connect external devices, power and network.

- 1. Connect a monitor, USB keyboard, USB mouse and network cable to one of the Ethernet ports (B5 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 750VA or higher per PSU is recommended for the 1U P-RACK. UPS system rated for 1000VA or higher per PSU is recommended for the 2U P-RACK.
- 3. Power up the server, if it does not turn on automatically by pressing the power button on the front (F2 on the diagram). * Connecting the power cable to the live power source may turn on the server automatically.

DW-BJP1U Hardware



DW-BJP2U and DW-BJP2RU Hardware



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.

| 🖀 Time Zone Settings | × |
|---|---|
| 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 Armerica (UTC-06:00) Central Armerica (UTC-06:00) Easter Island (UTC-06:00) Saster Island (UTC-05:00) Sastarchewan (UTC-05:00) Sastarchewan (UTC-05:00) Fastern Time (US & Canada) | ^ |

- 3. Click **OK** after selecting the correct time zone.
- 4. 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.

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

Linux OS:

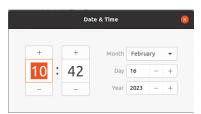
1. Open Settings and go to Details > Date &Time.

| A 📢 🕛 🔻 | Q Settings = | Date & Time @ |
|---|---|--|
| Intel Ethernet Connected | O Mouse & Touchpad Kayboard Shortcuts Printers Removable Media | Automatic Date & Time Representations Additional for the |
| Settings | 💩 Color 🕀 Region & Language | Time Zone PST (Los Angeles, United States) |
| Lock ○ Power Off / Log Out | 术 Universal Access 法, Users | Time Format 24-hour 💌 |
| | * Default Applications O Date & Time | |
| | + About | |

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.



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 | |

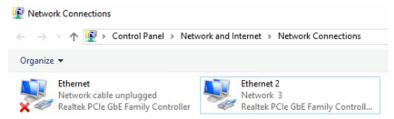
* The camera and local network cannot be on the same network.

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.

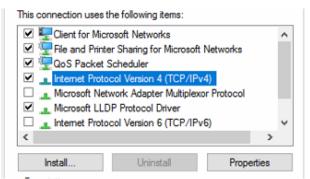
| This connection uses the following items: | |
|---|--------------|
| Client for Microsoft Networks | ^ |
| 🗹 🏪 File and Printer Sharing for Microsoft Networks | |
| 🗹 🏪 QoS Packet Scheduler | |
| Internet Protocol Version 4 (TCP/IPv4) | |
| Microsoft Network Adapter Multiplexor Protocol | |
| Microsoft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

- 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.

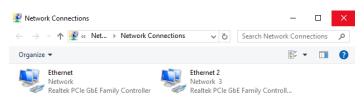
NOTE It must be the same network as the cameras and must not be the same network as the local network. Contact your network administrator for more information.

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.

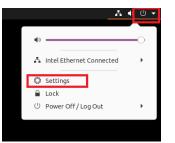


- 9. Click the Use the following IP address: radio button Use the following DNS server addresses: will be selected automatically.
- 10. Enter the IP address and subnet mask of the camera network. Leave the default gateway and preferred and alternate DNS server fields blank.
- 11. Click **OK** to close 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:

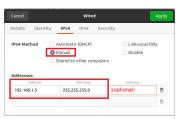
1. Open Settings > Network



2. Click Setting of the Realtek Ethernet.



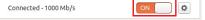
- Change to Manual, then enter Address, Netmask, and Gateway.
 * Do not enter Gateway information if there is no Gateway in this network.
- 4. Click Apply to save.



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^{*} 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 Connect.

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| BJAIHDX | | | admin | | |
| EUAHHDX : Koshos:2011 Log in to DW Cloud | Connect to Server | | | | |
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| | | Log in to DW Cloud | Connect | Conn | ect to Server |
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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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| | | IPVMS | Server Location ID: 0 🗘 | |
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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.

| New Layout 1 \times + | ~ | | | | | | | | | | |
|---|------------------------------|------------|---------------------|--------------|--------|--------|-----|-----------|---------|---------|---|
| Connect to Another Server Disconnect from Server | Ctrl+Shift+C Ctrl+Shift+D | | | | | | | | | | |
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| ystem Administration | Ctrl+Alt+A | | User Management | | | | | Time Sync | Routing | Plugins | ſ |
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* If the latest version is already installed, the message "The latest version is already installed" will be visible at the top.

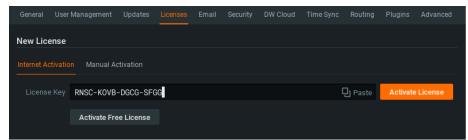
3. Click **OK** when the update is complete.

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|---|--|--|
| BISCACHA CHANCES: **Support for Manzanchi Nordman 8.1 and Manzanchi Windows Simer 2019 In discontinued. *Support for Manzanchi Nordman Simontinued for the next major relevand 6.5 1 *Support for Manzandym PT all will be accontinued in the next major relevand 6.0 1. | BREAKING CHANGES: "Support for Microsoft Windows & 1 and Microsoft Windows Server 2012 is discontinued. "Support for Bashery P12 and all discontinued in the next micro relative (L6) AL | DW Spectrum Client will be restarted to the updated version. |
| Subject for Rasjberrý OS 10 mil be discontinued in the mest major release (6-1). Downlead <u>±</u> Oset Lipdate File | Support for Rappberry OS To will be discontinued in the next major release (a.1) Instal under Cancel | ок |

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.



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

| DW DW Spectrum | Client | ? | × |
|----------------|-------------------|----|---|
| \checkmark | License activated | | |
| | | ок | |

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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| MYDW-GB01 MYDW-GB02 | Rename | F2 | | | | | | | | | | | | | | | |
| MYDW-GB0 | | | | | | | | | | | | | | | | | |
| MYDW-GC01 | Check Camera Issu | ies | Keej | | | | | | | | | | | | | | |
| 🔚 Local Files | Camera Rules | | 3 | | | | | | | | | | | | | | |
| | Camera Settings | | 1 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | ОК | Apply | Cance | |

- 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.

| DW | Came | ra Set | tings | - DWC | C-MV7 | 2Di281 | r - DV | / Spec | trum (| lient | | | | | | | | | | | | | | | | × |
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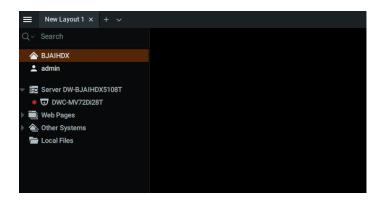


* Click All to apply the recording settings to the entire schedule.

| Gener | al <mark>R</mark> | ecordi | ng | | | | | | | | | | | | | | | | | | | | | |
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| Reco | Recording 1/4 Professional License is used | | | | | | | | | | | | | | | | | | | | | | | |
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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.

Quick Start Guide



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.

| | | Look in: | C:\Users\DWUSER\Documents | $\checkmark \leftarrow \rightarrow$ | ↑ C; ≣ ፡፡፡ |
|-----------------------------------|---|----------------------------|---------------------------|-------------------------------------|------------------------------|
| | | My Computer | Name <u>-</u> | Size Type | Date Modified |
| | | DWUSER | | | |
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| | | | | | |
| General Liser Management Lindates | Licenses Email Security DW Cloud Time Sync Routing Plugins Advanc | at | | | |
| ocheran osci management opuates | | - | | | |
| Backup and Restore | Create a backup of System management data, or restore System management data from existing backup | an File <u>n</u> ame: DB_I | Backup_02142025 | | Save |
| Logs Management | Create Backup Restore from Backup | Files of type: Data | abase Backup Files (*.db) | | ✓ Cancel |
| | | | | | |

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

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 | | | | | | | | | | |
| Microsoft Windows OS (supported by both DW Spectrum* Server and Client). • Windows 10 • Windows 11 • Windows Server 2016 • Windows Server 2019 • Windows Server 2022 **NOTE: DW Spectrum for Windows can be installed as a software bundle, or the Server and Client software can be Ubuntu (Debian-based Linux) OS (supported by both DW Spectrum Server and Client). • Ubuntu 18.04 LTS "Bionic Beaver" • Ubuntu 20.04 LTS: "Focal Fossa" • Ubuntu 2.04 LTS: "Jammy Jellyfish" **NOTE: DW Spectrum for Ubuntu is only available for separate installations (not bundled). | | | | | | | | | | |
| | Macintosh OS (supported only by the DW Spectrum Client. DW Spectrum Server is unavailable for macOS). • macOS 11.0, 11.1, 11.2 "Big Sur" • macOS 12 "Monterey" • macOS 12 "Monterey" • macOS 12 "Monterey" | | | | | | | | | |
| | **NOTE: DW Spectrum for macOS is only supported by the DW Spectrum Client. | | | | | | | | | |

* Except Storage Server version

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

DW.

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