



Servers Powered by DW Spectrum® IPVMS

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

Blackjack[®] E-RACK – Up to 128 2.1MP Cameras (1080p True HD Resolution)



Default Login Information for DW Spectrum® IPVMS

Username: **admin** F

Password: admin1234

| | WHAT'S IN THE BOX | | | | | | | |
|----------------------|-------------------|-------|----------------------------------|---------------------------------------|-------|--|--|--------|
| E-RACK Server | | 1 Set | Recovery USB (LX models only) | | 1 Set | Power Cable | | 2 Set |
| Quick Start Guide | | 1 Set | Keyboard and Mouse | a a a a a a a a a a a a a a a a a a a | 1 Set | miniDP to True HD Output Adapter | | 4 Sets |

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 set-up. See the DW Spectrum full manual for more information on features and functionality.



BLACKJACK E-RACK HARDWARE



NOTE VGA and HD outputs are DISABLED on the back of the NVR. For local monitoring connection, please use the 4x mini display ports on the right side of the hardware (B17). Use the mini DP to DVI and DVI to HDMI converters included in the E-RACK's accessory box.

SPECIFICATIONS E-RACK

| MODEL | | Blackjack E-RACK 2U - 12 Bay | Blackjack E-RACK 3U - 16 Bay | Blackjack E-RACK 4U - 24 Bay | Blackjack E-RACK 4U - 36 Bay | | |
|--------------------|--------------------------------|---|-----------------------------------|------------------------------|--------------------------------------|--|--|
| Maximum IP Came | eras | | | 128 | | | |
| Included IP Licens | es | | | 8 | | | |
| Form Factor | | | Ra | ck Mount | | | |
| | Windows [®] 10 64 bit | DW-BJER2UXXT | DW-BJER3UXXT | DW-E | 3JER4UXXT | | |
| Operating System | Linux® Ubuntu® | DW-BJER2UXXT-LX | DW-BJER3UXXT-LX | DW-BJ | ER4UXXT-LX | | |
| | OS on SSD | | 2x 150GB SS | D (1 RAID Mirrored) | | | |
| CPU | | | Intel® i | 7 [®] Processor | | | |
| Memory | | 16GB | | | | | |
| NIC | | 2x Gigabit Ethernet (RJ45) | | | | | |
| System | Max Video Storage Rate (Mbps) | 600 Mbps | | | | | |
| Charana | Maximum Hard Drives | 2 x SSD + 12 x HDD | 2 x SSD + 16 x HDD | 2 x SSD + 24 x HDD | 2 x SSD + 34 x HDD | | |
| Storage | Maximum Storage | 44TB RAID 5 | 90TB RAID 5 | 198TB RAID 5 | 210TB RAID 5 | | |
| Video Out | Outputs | 4x HD Display Port Outputs, Simultaneous Monitors | | | | | |
| Video-Out | Video Card | AMD FinePro W4100 | | | | | |
| Keyboard & Mouse | 3 | Included | | | | | |
| Railkit | | Included | | | | | |
| Power | | | Dual 920W**, Redundant Power Supp | bly | Dual 1280W**, Redundant Power Supply | | |
| Operating Temper | ature and Humidity | | 41°F-104° | °F / 20-90% RH | | | |
| Dimension (WxDxł | l) (inches) | 17.2" x 25.5" x 3.5" | 17.2" x 25.5" x 5.25" | 17.2" | x 25.5" x 7" | | |
| Warranty | | | 5 Ye | ear Limited | | | |

* The actual size will differ, depending on the RAID configuration. The actual size HDD with RAID6 = the total size of the HDD - 2HDD size. ** UPS Recommended

SETTING UP THE E-RACK

STEP 1: Connect Peripherals, power and network

- 1. Connect a monitor, USB keyboard, USB mouse and network cable to one of the ethernet ports (B8 on the diagram) Configure the camera network first then will configure local network later.
- 2. Connect the server to an appropriate power source. Recommend to use UPS system *recommend to use 3000VA or higher.
- **3.** Turn on the server if the server does not turn on automatically. (Press the Power Button on the front of the E-RACK. F2 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 Date and Time icon on the Desktop.
- 2. Change Time zone if not correct





Press OK after selecting the correct Time zone.

Click Change date and time... to update the date and time if they are not correct.

Change <u>d</u>ate and time...

* Verify the Time zone before updating the date and time. Time may show 2 or 3 hours off due to incorrect Time zone.

Date and Time

Change time zone...



| 📸 Date and Time Settings | \times |
|--|----------|
| Set the date and time: | |
| Date: Time: | |
| • May 2018 • | |
| Su Mo Tu We Th Fr Sa 29 30 1 2 3 4 5 | |
| 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 | -) |
| 27 28 29 30 31 1 2 3 4 5 6 7 8 9 | |
| 11: 16: 32 AM | • |
| | |
| Change calendar settings | |
| OK | Cancel |

Press OK after adjusting to the correct date and/or time.

4. Press OK to close Date and Time when done.

Linux

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



2. If the server will be connected to the Internet, leave Set the Time to "Automatically from the Internet" and update the Location to the correct Time Zone. 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 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 | |

* Camera Network and Local Network cannot be on the same network.

NOTE The Blackjack Cube'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 Network Connections on the Desktop
- 2. Right click on the Ethernet with cable connected and click Properties.



3. Click 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 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 autor this capability. Otherwise, you need to for the appropriate IP settings. | matically if your network supports o ask your network administrator | |
| O Obtain an IP address automatica | lly | |
| Use the following IP address: | | |
| IP address: | 192 . 168 . 10 . 10 | |
| Subnet mask: | 255 . 255 . 255 . 0 | |
| Default gateway: | | |
| Obtain DNS server address autor | natically | |
| • Use the following DNS server add | tresses: | |
| Preferred DNS server: | | |
| Alternate DNS server: | | |
| Validate 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. Click Internet Protocol Version 4 (TCP/IPv4) and click Properties

| This connection uses the foll | owing items: | | |
|--|---|---------------------------|---|
| Client for Microsoft File and Printer Sha GoS Packet Sched Internet Protocol Ve Microsoft Network / | Networks ring for Microsoft N uler rision 4 (TCP/IPv4 Adapter Multiplexor | letworks) Protocol | ^ |
| Microsoft LLDP Pro | tocol Driver | | |
| Internet Protocol Ve | ension 6 (TCP/IPv6 |) | × |
| Install | Uninstall | Properties | |
| Internet Protocol Version 4 (TCP/IPv4) | Properties | × | |
| General Alternate Configuration | | | |
| You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings. @ Qbtain an IP address automatical @ Dotain an IP | natically if your network ask your network admir ly | supports iistrator | |
| Use the following IP address: | | | |
| Subnet mask: | | | |
| Default gateway: | | | |
| Obtain DNS server address auton | natically | | |
| Use the following DNS server add | resses: | | |
| Preferred DNS server: | | | |
| Alternate DNS server: | 100 A. 100 A. | | |
| Vaļidate settings upon exit | Ad⊻ | anced | |
| | OK | Cancel | |

- 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.

| Internet Protocol Version 4 (TCP/IPv4) | Properties | × |
|---|--|-----------|
| General | | |
| You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings. | natically if your network suppo ask your network administrate | rts or |
| O Obtain an IP address automatical | ly | |
| • Use the following IP address: | | |
| 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: | |
| Preferred DNS server: | 8.8.8.8 | |
| Alternate DNS server: | 8.8.4.4 | |
| Validate settings upon exit | Ad <u>v</u> anced | |
| | OK Ca | ncel |

- 11. Click OK to close then click Close to go back to Network Connections.
- 12. Connect a network cable to the Ethernet port B8 on the diagram (page 2) to the switch on the local network.
- 13. Close the Network Connections by clicking X on the upper right corner of Network Connections.



NOTE The Blackjack Cube'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" are 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.

| 1 | Addresses | | | |
|---|--------------|---------|---------|--|
| | Address | Netmask | Gateway | |
| | 192.168.40.7 | | | |



8. Ignore any populated values and enter the valid Netmask value, then press Tab on the keyboard to move to the Gateway.

| Contra Cont | and the second sec | Station and an and |
|--|--|--------------------|
| Address | Netmask | Gateway |

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

| ddress | Netmask | Gateway |
|--------|---------|---------|

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. In 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 picture of network port and repeat 2 to 8 of STEP 3 Configure Network.



13. Click on the DNS Servers field box and enter 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.

CONFIGURE CAMERAS USING DW IP FINDER

Refer to the camera's QSG to configure Digital Watchdog camera's IP address using DW IP finder.

Spectrum Client



LINUX-BASED SOFTWARE MANUAL LAUNCH

To launch the DW Spectrum® Software on the Linux-Based E-RACK

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



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 E-RACK:

Windows

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



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 : admin1234

OR

OR

STEP 1: Initial run from Blackjack® server

1. Open DW Spectrum® Client by double click on the DW Spectrum icon



2. Click on the preconfigured server.





- 3. Enter password and click connect.
 - * Default password : admin1234 (case sensitive)

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| | Save password | | | |
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| | Connect | | | |
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| | 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 General tab, then type in the new server name in the Name field and click OK.

| General | Storage Management | Storage Analytics | | | |
|---------|---------------------------|-------------------|--|--|------|
| | Server Spectrum101 | | | | |
| | 192.168.21.195 | | | | Ping |
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STEP 3: To check for update

1. Click on the menu

then click System Administration.



2. Go to Updates tab. Click Update System if turned orange.



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



3. Click OK when update is completed.



STEP 4: Enter License

- 1. Go to System Administration then click License tab.
- 2. Enter License Key then click Activate License button. (Internet connection required)
 - * Click on Activate Trial License if you have not purchased the valid license.

| General | Licenses | Email | Updates | Users | Routing Management | Time Synchronization | DV | V Cloud | |
|---------------|------------|------------|----------------|----------|------------------------|----------------------|----|--|-------------|
| You do not h | nave a val | id license | e installed. F | lease ac | tivate your commercial | or trial license. | | | |
| New Licer | nse | | | | | | | | |
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3. Click OK to when the License is activated.





STEP 5: Configure recording

1. Right click on the camera to setup recording, then click Camera Settings.



2. Go to Recordings tab.

| General Re | ecordin | g | l/O pc | orts | Moti | on | Fishe | ye | Advan | nced | Exp | ert | | | | | | | | | |
|------------|---------|---|--------|---------|------|----|-------|--------|-------|------|-----|-----|--|--|---|----|--|-------|--------|-----|-----|
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3. Click Recording

to turn on recording.

- 4. Configure Schedule Settings for Quality, FPS and Recording Type.
- 5. Click and drag mouse over the Recording Schedule to assign the recording setting.

| General | Rec | ordini | 9 | l/0 p | orts | Moti | on | Fishe | ye | Adva | nced | Exp | pert | | | | | | | | | | | | | |
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* Click on All to apply to the all schedules.

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| Record Always Motion Dnly Metion + Lo-Res Do Not Record ixed Archive Length Motion Recording Copying Schedule Inn. Days 1 2 Auto Pre-Recording 5 s Copy Schedule cense limit exceeded, recording will not be enabled. 2 2 2 2 | Quality | Hiah | | | | | | | | | | | | | | | | | | | anic N | | | | | |
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| | icense limit | exce | eded, i | record | ding w | rill not | be er | habled | | | | | Ŷ | | | | | | | | | | | | | |
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6. Red dot will appear next to the camera when the recording is started.





STEP 6: Backuping Database

1. Go to System Administration and click General tab.

| General Licenses | Email Updates L | lsers Routing Manag | jement Time Synd | chronization DW Cloud | |
|----------------------|------------------------|-------------------------|------------------|-----------------------|-----------|
| DWSpectru | m 🖌 | | | | |
| Ŷ | <u>ڳ</u> | ବ ବ ବ | <u>ه</u> | | \Box |
| Event Rules | Event Log | Camera List | Audit Trail | Health Monitoring | Bookmarks |
| System Settings | | | | | |
| 🗹 Enable cameras an | d servers auto discove | ery | | | |
| 🗹 Enable audit trail | | | | | |
| 🗹 Send anonymous u | isage and crash statis | tics to software develo | pers (recommend | | |
| 🗹 Allow System to op | timize camera setting | s (recommended) | | | |
| Backup and Restore | e | | | | |
| Create Backup | Restore from Bac | kup | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | ок Аррі | ly Cancel |

- 2. Click Create Backup... button.
- 3. Navigate to the folder where to save and enter name of the backup file then click save.
 - * Strongly recommend to also backup to the external storage media.



NOTE: More information and instructions are available in the Spectrum 3.0 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 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 & WAN) Do you have a Gigabit network? Check your network speed. |
| My camera appears disconnected | Under camera settings, make sure the user name 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 permissions to view that specific camera. |
| l can't get playback video from my camera | Do you have network connection between client and server (in case 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 user name 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 user name and password. |

SYSTEM REQUIREMENTS

Recommended Specs for the Full Client

| | Processor | Intel Core i5 or greater | | | | | | | | | | |
|-----------|--------------------------|---|--|--|--|--|--|--|--|--|--|--|
| | Video Card | Intel HD Graphics 2500 (o Recommend NVIDIA or Al | r higher) with 1GB Dedicated Memory MD graphics card with 2GB or more memory | | | | | | | | | |
| \square | Resolution | 1920 x 1080 | | | | | | | | | | |
| | RAM | 16GB | | | | | | | | | | |
| Windows | NIC | 1Gbps | 1Gbps | | | | | | | | | |
| | | Windows | 7 Home, 7 Standard, 7 Pro, 7 Ultimate, 8/8.1 Standard, 8/8.1 Pro, 8.1 Enterprise, 10 Home/Pro/Enterprise** | | | | | | | | | |
| Linux OS | OS Supported – Client | Windows Servers* | Any versions of 2008, any versions of 2008 R2, any versions of Server 2012, any versions of Server 2012 R2 | | | | | | | | | |
| | | Linux | Ubuntu 14.04, Ubuntu 16.04 | | | | | | | | | |
| | | Mac | OSX 10.11, OSX 10.12 | | | | | | | | | |

* Except Storage Server version

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

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