



Servers Powered by DW Spectrum™ IPVMS

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

Blackjack[®] Cube Deluxe — Up to 96 2.1MP Cameras (1080p True HD Resolution) or upto 3 Panzilla[®] MEGApix[®] 48MP Cameras -DWC-PZV2M72T

Blackjack Cube-Deluxe

DW-BJCUBE4T-DL DW-BJCUBE8T-DL DW-BJCUBE12T-DL DW-BJCUBE16T-DL DW-BJCUBE20T-DL



Blackjack Cube-DL

Default Login Information for DW Spectrum[®] IPVMS

| Username: admin | Password: admin1234 |
|-----------------|---------------------|
|-----------------|---------------------|

| | | WHA | T'S IN THE BOX | | | |
|-----------------------|-------|-----------------------|---------------------------------------|-------|-------------|-------|
| CUBE Deluxe Server | 1 Set | Recovery USB | | 1 Set | Power Cable | 1 Set |
| Quick Start Guide | 1 Set | Keyboard and Mouse | I I I I I I I I I I I I I I I I I I I | 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 set-up. See the DW Spectrum full manual for more information on features and functionality.



BLACKJACK CUBE DELUXE HARDWARE



- F1 HDD LED
- F2 Power Button / Power LED
- F3 5.25" Bay
- F4 USB 2.0 Port
- F5 Microphone Jack
- F6 Headphone Jack
- F7 USB 2.0 Port
- B1 AC Power Socket
- **B2** Display Port (Not Used)
- **B3** HDMI Port (Not Used)
- **B4** VGA Port (Not Used)
- B5 USB 3.0 Ports
- B6 USB 2.0 Ports
- B7 LAN Port
- B8 Clear CMOS Button
- B9 PS/2 PortB10 Line-In Jack
- B11 Line-Out Jack
- B12 Microphone Jack
- **B13** 4x Mini Display Ports
- B14 NIC Port (Connect to Camera Network)

Default Login Information for Pre-Installed DW Spectrum® IPVMS

Username: admin Password: admin1234

WARNING For an optimal system configuration, it is recommended that a UPS (Uninterruptible Power Supply) be used to power the setup. Dual monitors are not recommended due to CPU performance. To connect two monitors to the Cube, go to the display setup to activate the second monitor.

SPECIFICATIONS CUBE DELUXE

| Ē | PART NUMBER | Blackjack CUBE DELUXE | | | | | |
|-------------------|-------------------------------|--|--|--|--|--|--|
| M | laximum IP Cameras | 96 | | | | | |
| Ir | ncluded IP Licenses | 4 | | | | | |
| | Form Factor | Desktop | | | | | |
| On exeting Custom | Windows® 7 64 Bit | DW-BJCUBExT-DL | | | | | |
| Operating System | OS on SSD | Yes | | | | | |
| | CPU | Intel® i7® Processor | | | | | |
| | Memory | 16GB | | | | | |
| | Ethernet Port | 2x Gigabit Ethernet (RJ45) | | | | | |
| System | Max Video Storage Rate (Mbps) | 480Mbps (3 Panzilla® MEGApix® 48MP Cameras — DWC-PZV2M72T) | | | | | |
| Storago | Maximum Hard Drives | 1 x SSD + 2 x SATA HDD | | | | | |
| Storage | Maximum Storage | 20TB | | | | | |
| Video Out | Outputs | 4x MiniDisplay Port | | | | | |
| VIGEO OUT | Resolution | HD 1080p | | | | | |
| Pre- | Loaded VMS Software | DW Specturm [®] IPVMS | | | | | |
| | Remote Clients | Cross Platform - Windows [®] , Linux Ubuntu [®] and Mac [®] | | | | | |
| | Mobile Apps | iOS [®] and Andriod [®] | | | | | |
| | Keyboard & Mouse | Included | | | | | |
| | Power Supply | 300W** | | | | | |
| Operating | g Temperature and Humidity | 41°F~104°F / 20~90% RH | | | | | |
| Dime | ension (WxDxH) (inches) | 8.5" x 13" x 7.5" | | | | | |
| | Warranty | 5 Year Limited | | | | | |

SETTING UP THE CUBE DELUXE

- **STEP 1:** When setting up the Blackjack Cube Deluxe, make sure the following are in the box:
 - Cube Server
 - Recovery USB
 - Keyboard and Mouse

NOTE Monitor is not included.

- Quick Start Guide Power Cable
- **STEP 2: 1.** Connect a monitor, USB mouse, and network cables (not included).
 - 2. Connect the server to an appropriate power supply.
 - 3. In the server's login screen, enter username and password (admin / admin).

STEP 3: Desktop View

The server's Network Setup Window and DW Spectrum[®] software will launch automatically when the server boots up. To relaunch, double click on each of the desktop icons.



WINDOWS-BASED SOFTWARE MANUAL LAUNCH

To launch the DW Spectrum[®] Software on the Windows-Based Cube:

Windows 7

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



OR

OPTION 2: Go to 'Start' on the bottom left and select DW Spectrum[®] from the Start Menu.





SETTING UP DW SPECTRUM® MEDIA SERVER

Login : admin Password : admin1234

> DW Sopertrum

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.

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| N SI | pectru | m | | | | |
| ۹ | | | | | | |
| DWSpectru 192.168.10.16 | im a | | | | | |
| | | | | | | |
| | | | | | | |
| Connect | to Another Server | | | | | |
| | | | | | | |

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

| ■ ■ | ectrum |
|--|----------------|
| DWSpectrum I 192.168.10.163 admin Password Save password | |
| Connect to | Another Server |

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.





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.





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 Recording 1/0 ports Motion Fis | | |
|---|-----------|------------------|
| Recording | | Activate License |
| Recording Schedule (based on server time) | | |
| All 0 1 2 3 4 5 6 | | |
| Mon | | |
| Tue | | |
| Wed | | |
| Thu | | |
| Fn | | |
| | | |
| 8an | | |
| Schedule Settings | | |
| FPG 15 🗘 | | |
| Quality High Percent Alwaya | | |
| | | |
| Fixed Archive Length | | |
| Min. Daya 1 🔅 🖾 Auto | | |
| Max Days 30 🗘 🗹 Auto | | |
| | | |
| Show on Layout Event Log Cam | era Rules | OK Apply Cancel |

3. Click Recording (1) to t

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 | Reco | arding | | 10 p | its. | Moti | on | Fishe | ye | Adva | nced | Eq | xert. | | | | | | | | | | | | | |
|-----------|------|--------|-----|------|------|-------|-------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|----------------|-------------|--------|-------|----|
| Recording | | | | | | | | | | | | | | | | | | | | | | | Ac | tivate | Licen | se |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Recording | g Sc | hed | ule | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 14 | | | 17 | | | | 21 | | | |
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| | | | | | | | | 15 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 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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* Click on All to apply to the all schedules.

| Recordin | g S | che | dule | t (bi | sed | en s | erve | r tim | 0) | | | | | | | | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
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| General Re | cord | ng | 170 pr | iti | Moti | on | Fishe | ye | Advar | nced | Exp | ert | | | | | | | | | | | | | |
| Recording | | | | | | | | | | | | | | | | | | | | | | Ac | tivate | Licen | se |
| 1 Trial Licens | | | | | | | | | | | | | | | | | | | | | | | | | |
| Recording S | Sche | dule | | | | | | | | | | | | | | | | | | | | | | | |
| All | 0 | | | | | | 6 | | | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| Mon | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | |
| Tue | HI 15 | 15 | Hi 15 | HI 15 | 15 | 15 | 15 | 15 | HI 15 | Hi 15 | Hi 15 | Hi 15 | 15 | 15 | 15 | Hi 15 | 15 | HI 15 | HI 15 | 15 | HI 15 | Hi 15 | Hi 15 | Hi 15 | |
| ine in | Hi 15 | H 15 | Hi 15 | |
| Wed | HI | H | HI | H | HI | H | HI | HL | |
| Thu | Hi | 15 Hi | | | | | | | | | | | | | | | | | | | | | | Hi | |
| Fri | 15 Hi | | | | | | | | | | | | | | | | | | | | | | | 15 HI | |
| Sat | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | |
| Sun | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | |
| - See as | HI | H | н | н | Hi | н | н | HI | Hi | HL | Hi | Hi | н | Hi | HI | Hi | Hi | HI | н | Hi | н | HI | Hi | Hi | |
| Schedule S | | | | | | | | | | | | | | | | | | | 5 | K Shr | w 01 | ality | | | |
| FPS 1 | 15 | | 0 | | | | | | | | | | | | | | | | | Shc | w FP | s | | | |
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| Fixed Archi | ve Le | ength | | | | | | Mot | ion R | lecor | ding | | | | | | C | opyi | ng So | ched | ıle | | | | |
| Min. Days | | | ⊠ A | uto | | | | | | | 5 s | \$ | | | | | | | | | | | | | |
| License limit | excee | eded, I | record | ting w | ill not | be er | able | d. | | | | î | | | | | | | | | | | | | |
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| Show on L | ayout | t I | Eve | nt Log | | c | amer | a Rule | 5 | | | | | | - 14 | | | | ок | | - 1 | Apply | | Ca | ncel |

6. Red dot will appear next to the camera when the recording is started.

| New Layout × + × | | | ? | | | |
|----------------------------------|----------|-------------|-----------|-------|---|--|
| Resources Search | <u>*</u> | | | | ۵ | |
| 合 ubuntu16.04 | 8 | Email serve | er is not | set | | |
| 🚢 admin – Owner | × | Email addre | ess is n | otset | | |
| 🛢 Servers | | | | | | |
| ✓ Server ubuntu 192.168.21.188 | | | | | | |
| OWC-BVI2IR 192 168 40 233 | | | | | | |
| DWC-BVI2IR 192.168.40.216 | | | | | | |
| DWC-BVI2IR 192.168.40.241 | | | | | | |
| DWC-BVI2IR 192 168 40 229 | | | | | | |
| DWC-BVI2IR 192.168.40.253 | | | | | | |
| DWC-MB421TIR 192.168.4 | | | | | | |
| DWC-MB950TIR 192.168.4. | | | | | | |
| JWC-MD421TIR 192.168.4_ (| | | | | | |
| DWC-MD421TIR 192.168.4 | | | | | | |
| DWC-MV82WIA 192.168.40 | | | | | | |
| DWC-MV950TIR 192.168.4 | | | | | | |
| DWC-PB2M4TIR 192.168.4 | | | | | | |
| DWC-PB2M4TIR 192.168.4 | | | | | | |
| C DWC-PF5M1TIR 192.168.4 | | | | | | |
| OWC-PF5M1TIR 192.168.4. | | | | | | |
| WCA-VF25WIR4 192.168 | | | | | | |
| 의 Web Pages | | | | | | |
| 🕰 Users | | | | | | |
| | | | | | | |
| 🗁 Local Files | | | | | | |

STEP 6: Backuping Database

1. Go to System Administration and click General tab.

| | | Users Routing Manag | | hronization DW Cloud | |
|----------------------|-----------------------|-------------------------|------------------|----------------------|-----------|
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| Event Rules | Event Log | Camera List | Audit Trail | Health Monitoring | Bookmarks |
| System Settings | | | | | |
| 🗹 Enable cameras and | l servers auto discov | ery | | | |
| 🗹 Enable audit trail | | | | | |
| Send anonymous us | age and crash statis | tics to software develo | pers (recommende | | |
| Allow System to opt | imize camera setting | s (recommended) | | | |
| Backup and Restore | | | | | |
| Create Backup | Restore from Bac | skup | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | ОК Аррі | y 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.

| Look in: | C:\Users\CUBE\Documents | \checkmark \leftarrow \rightarrow | ↑ 🖦 ≣ 👪 |
|--------------------|------------------------------|---|---------------|
| i My Com | - Name E | Size Type D | bate Modified |
| File <u>n</u> ame: | SpectrumDB_06252017 | | Save |
| Files of type: | Database Backup Files (*.db) | | Y Cancel |

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

| Windows 7 | Processor | Intel Core i5 or greater | |
|-----------|--------------------------------|--|--|
| | Video Card | Intel HD Graphics 2500 (or higher) with 1GB Dedicated Memory | |
| | Resolution | 1920 x 1080 | |
| | RAM | 4GB | |
| | NIC | 10 / 100 / 1000 Base-T Ethernet | |
| | OS Supported – Media Server | Windows | 7 Standard, 7 Pro, 7 Ultimate, 8/8.1 Pro, 8.1 Enterprise, 10 Pro/Enterprise |
| | | 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 |
| | OS Supported – Client | 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 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

** For Windows 10, recommend 6th Generation Intel i3/i5/i7 processors with 16GB RAM and video card with 1GB or higher RAM

Important: OS not listed will be not be supported by $\mathsf{DW}^{\scriptscriptstyle \rm M}$ Tech Support

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