

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

BLACKJACK BLADE

HARDWARE

SPECIFICATION

Multi-Camera Monitor Single-Channel View only

Up to 16

80Mbps*

Gigabit(1x)

H. 264

Up to 20 Megapixel

Yes

VGA / HDMI

Yes

2.5″ SATA

Linux

5xUSB 2.0

3 years

10"(L) × 1.6"(W) × 6.4"(H)

4.53 lbs

[2]

TB(2x1TB HDD)

Max. Number of

(Recording)

Network

Detection

Video Port

Local View

USB Ports

Warranty

Dimension

OS

Cameras Supported

Video Compression

Advanced Motion

Storage Capacity

Hard Drive Interface

Megapixel Recording

Recording Performance

F1 Power Button

- F2 Power Status LED
- F3 HDD Status LED
- F4 SD Card Reader
- F5 Second HDD
- F6 USB 2.0 Port
- F7 Vertical Stand
- **B1** Microphone Jack
- B2 Headphone / Line-out Jack
- B3 LAN Port
- **B4** Kensington Lock
- **B5** HDMI Port*
- B6 USB 2.0 Ports
- B7 D-Sub (VGA) Port
- B8 Power Jack (DC-in)

***NOTE:** HDMI Output must be connected to a proper monitor BEFORE Blade boot-up.



*WARNING: For an optimal system configuration, it is recommended that a UPS (Uninterruptable Power Supply) be used to power the setup.

STEP 1:

When setting up the Blackjack Blade for the first time, make sure the following is included in the box:

- Blade Server
- Server Stand + assembly screw
- Accessory CD (Including Manual)
- Power Supply
- OSG

***NOTE:** Monitor, keyboard & mouse not included.

STEP 2:

1. Assemble the Blade server and server

stand. Use the included screw (stored at

the base of the Blade's stand) to secure the stand.

2. Connect a monitor, USB mouse, and network cable (not included)

***NOTE:** HDMI Output must be connected to a proper monitor BEFORE Blade boot-up.

3. Connect the Blade to an appropriate power supply.

4. In the Blade login screen, enter username and password.

STEP 3: Desktop View

The Blade's Network Setup Window and DW Spectrum client will launch automatically when the Blade boots up. To relaunch, double click on each of the desktop lcons.



[3]

OK

LITE CLIENT PERFORMANCE

The Blade comes with DW Specturm Client LITE for local setup of the server, cameras, and recording parameteres. DW Spectrum LITE may have features and performance limitations. When launching the LITE Client, the system will notify that you are running the software in LITE mode. Press OK.

NOTE: For complete features and performance, install the DW Spectrum Software suite on a computer that meets minimum requirements and run the full DW



The DW Spectrum LITE Client

will automatically load the

local server's EC credentials

the server's usenrame and

password. By default, the

Server IP : 127.0.0.1

USER : admin

PW : admin

After logging in, all supported

automatically populate in the LITE

cameras on the network will

client's DisplayTree.

server's credentials are:

in the host information. Enter

STEP 4: Logging to Server



LITE CLIENT SOFTWARE MANUAL LAUNCH To launch the DW Spectrum LITE Client:

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



SETTING UP THE **BLADE**

9. In the Network



Option 1:

Settings > Licenses.

Option 2:

If you do NOT have internet access-1. Go to DW Menu Button > System Settings > Licenses. 2. Select 'Manual Activation' from the drop-down options. 3. Copy your hardware ID. This information will be filled out automatically by vour server. 4. E-mail your Hardware ID and your License Key to licenses@dwcc.tv. Please allow up to 48 hours for Digital Watchdog to reply. 5. Once provided with an Activation Key, Enter this information without altering it in the Activation Key space and press 'Activate Licenses'.

OR



OPTION 2: Go to the dashboard











Spectrum client.

STEP 5: Network Configuration

The Blade's Network Setup window will open automatically upon bootup. *NOTE: The Blackjack Blade's network settings are set by default to DHCP.

To change the server's network settings to Static IP, follow the instructions below. 1. Go to Network Settings from the desktop button.

2. Select 'Wired' from the list and click 'Options' at the bottom of the window. 3. Click on the 'IPv4 Settings' tab.

4. From the drop-down menu, select connection type: DHCP or Manual (static). 5. If 'Manual' is selected, click 'Add' next to Addresses.

6. Enter IP Address, Netmask, and Gateway according to network requirements. Contact your network administrator more information.

7. Add a DNS server address.

8. Click 'Save' to save the settings or 'Cancel' to return to the Network setup page.

*NOTE: Contact your Network Administrator and ISP for proper setup.





ADVANCED BLADE SETUP OPTIONS



The Blackjack Servers come with complimentary four (4) recording licenses. In addition, any licenses purchased with the hardware will be found at the bottom of the Blade's hardware, as a sixteen- digit code that needs to be activated.

If your server has internet access-1. Go to DW Menu Button > System

2. Select 'Automatic Activation via Internet' from the drop-down options. 3. Input your sixteen-digit license key 4. Press 'Activate License'. The system will notify you if the activation was successful. 5. If your licenses have been registered successfully, they will appear under the Active Licenses table.

est Streethouter Authons (11-1) Sele Thu Aug 1 26:00 AP 2012 Gal Sep 21 Ministers 2017



When installing or upgrading the DW Spectrum software, each component of the software must be installed separately.

To download the software, go to www.digital-watchdog.com, and search for 'DW Spectrum' to access the product page, docuemtnation and software downloads. To install the software:

***NOTE:** Internet connection is necessary to complete the software installation perperly. 1. Right-click the installation file and select "Run using Ubuntu Software Center".



Controler

777

DW Spectrum Client 1 For applications where multiple Blades are used and are being monitored from a single master location, you combine those Blades as secondary Media Servers under one Blade assigned as the master **DW Spectrum Client 3** Enterprise controller. DEFAULT PORTS: 7001

Default port: 7001.

- Multi-Site VMS Combining Servers Into 1 Enterprise Contoller
- 1 Select Your Primary Enterprise Controller
- 2 Find the IP and Port information
- (3) Attach the Media Servers to the Enterprise Controller:

1. Go to the PASSIVE Media Server (the server you want to assign to the PRIMARY EC) 2. Save the Media Server installation file in an accessible folder 3. Right-click on the Media Server installation file

and select 'Open with UBUNTU Software Center' 4. Press 'reinstall' and enter user credentials (default admin)

5. When asked to forward EC address, enter the PRIMARY Server's IP Address instead of Local Host. 6. Enter PRIMARY EC's port, user and password information.

- A Repeat for other passive Media Servers.
- 5 To login, enter the primary EC's IP adress, port*, and login information in the client.
- 6 If licenses have been activated on any of the PASSIVE Media Servers, those licenses will have to be reacticvated

*NOTE: To view your Security System from a remote network the PRIMARY EC's ports need to be forwarded in the router. Contact your Network Admin or Internet Service Provider for more information.



ACTION SHETTING

7777



[8]

UPGRADING SOFTWARE



MANUALLY **ADDING CAMERAS**





USER	
ACCOUNT	⁻ S

After setting up a user account, be sure to save at least one layout with designated cameras. Users that do not have Administrative rights, will not be able to access any cameras except those assigned to them by a layout.

	ADMIN	CAMERA SETTINGS	PTZ CONTROLS	VIDEO ARCHIVES	EXPORT VIDEO	VIEW LIVE VIDEO
Administrator	•	•		•	•	•
Advanced		•	•	•	•	•
Viewer				•	•	•
Live Viewer						

RECORDING **SCHEDULE**



To setup a recording schedule for a camera:

1. Go to Camera Settings > Recording

2. Check the box next to 'Enable Recording'. Make sure you have the proper licenses available for recording. The system will indicate how many licenses you have, and how many are still available.

3. Select the recording mode from the available options: Record Always (Continuous), Motion Only, or Motion + Low-Resolution always Recording. 4. Set the FPS for the recording mode. Range of FPS may vary based on camera's capabilities. Select also the recording quality from Low, Medium, High, or Best.

5. Click-and-drag to highlight the times to apply the recording schedule on the calendar table. You can setup multiple recording schedules for the same camera depending on day of the week and time of the day.

6. If Motion recording or Motion + Low-Resolution are selected, edit the Pre/ Post recording.

selecting Software.

motion sensitivity level.

* Depending on camera model.

the number, the more sensitive the motion

detection level will be. Please note that high

step 4 to create unlimited number of motion sensitivity masks* according to the camera's

Alarm / Event Rules

To configure Rules:

allow you to setup unique

rules and actions for events

1. Select one of the existing

rules or press the 'Add'

readings due to light change or dust.

sensitivity may cause false motion detection

7. You can copy the recording settings from one camera to multiple other cameras by pressing the 'Copy Schedule' button and selecting the relevant cameras.

MULTI-LEVEL MOTION MASKING



0 to 9 Sensitivity Settings (8 is default)

Select camera area by clicking & dragging to apply sensitivity settings

ALARMS & EVENTS RULES



2. Modify the cameras or servers it applies to, and the action and target you want to take when the event occurs.

FoV.

3. For advanced settings, press 'Advanced...' at the top right corner. This includes additional e-mail and sound settings as well as rule schedule setup.

want to hide.

cameras.

[11]

To use:

[11]

[10]



SERVER HEALTH MONITORING



Use the Server Health Monitoring to keep track of your Blade's performance. Track HDD, Network, and CPU to make sure the Blade is functioning properly. You may customize the Health Monitoring window by selecting which information to show and which to disable. To do so, click the check box next to the information you want to show, or uncheck the box next to information you

If any issues are detected, or the server appears offline, you can utilize the Diagnostics tool as an initial tool to detect any issues with the server or the

To start a Server Diagnostics, right-click on the server's name in the display tree and select "Server Diagnostics". See section below for more information. [13]



You can filter the search results by:

1. Start and End Date – only events occurring during the set time are displayed. 2. Event type – displays a specific type of events only.

3. Camera – displays events for a specific camera.

4. Action type - specific events caused by certain types of actions are displayed

To select multiple rows from a table, drag the mouse, use CTRL + Click/Up/Down arrows, or Shift + Click/ Up/ Down arrows. Use CTRL + A to select all records.

To Export the log's data, select the desired rows, right-click and select Export. [14]



For any questions or additional information on settings, capabilities, and performance, the DW Spectrum software offers an interactive Help Button.

1. press the button at the top right-hand corner of the screen.

2. Press anywhere on the screen you want to read more information about. 3. The software's complete manual will appear in a new window automatically displaying the relevant section you clicked on.

Problem	Possible Solutions
My camera does not auto-discover	1. Is the camera in the same LAN network as the Media Server?
	2. Is your camera compatible with DW Spectrum (refer to our website for full list of supported cameras)
	3. Is the camera updated to its latest firmware?
	4. If your camera is integrated with DW Spectrum via OnVIF, make sure OnVIF is enabled on your camera.
	5. Try adding the camera manually.
	6. Try rebooting the server after installation. Allow up to 30 seconds for the server to map your network and detect all supported devices.
Videos are slow	The Blade's LITE Client is limited in performance.Video may appear slow, and or in low resolution. For the full performance capabilities of the DW Spectrum client, install the software on a PC that complies with the minimum specifications below.
My camera appears disconnected	1. Under camera settings, make sure the user name and password are correct.
	2. Under the camera settings, use the 'Ping' button to make sure the camera is connected to the network properly.
	3. If you can connect to the camera's web viewer, try rebooting the camera and/or restore it to factory default.
	4. Make sure your camera is using the latest firmware available.
	5. Make sure that the camera is connected to the same network as the server.
	6. If you are connecting to a camera that is integrated with DW Spectrum via the OnVIF protocol (see list), make sure OnVIF is enabled.
	7. Make sure your user has permissions to view that specific camera.
l can't get playback video from my camera	1. 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.
	3. Make sure the camera is set to a recording mode that would provide recorded video for the selected time and environment.
	4. 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'	1. Make sure the camera's user name and password are properly entered in the camera's general information under the camera settings menu.

SYSTEM REQUIREMENTS

2. If necessary, try rebooting the camera to apply the camera's user

Recommended Specs for the Full Client: WINDOWS LIP Intel Core i5 or gr Processor Intel HD Graphics Video Card with 1GB Dedicat 1920 x 1080 Resolution RAM 4GB NIC 10 / 100 / 1000 Base-T Ethernet Windows 7, Server 2008, Vista, XP, OS Ubuntu 12.04 LTS or Newer

name and password.

message on my

camera

Network Requirements:

NUX 🚫	IEEE 802.3ab 1000BASE-T Gigabit Ethernet * Cameras and servers in the network must be completely isolated			
eater	* NOTE: if you are not connecting to the Blackjack			
2500 (or higher) ed Memory	from within 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			

Mobile Access:				
Web	Internet Explorer, Firefox, Opera, Chrome			
Apps	Android OS, iOS Smart Phones and Tablets			

Accessing DW Spectrum Log Files

From the DW Specturm Client Software:

Right-click on the Server's name

Choose Server Logs. The Media Server's Log will open in a web browser page. You can adjust the number of entries in the log by modifying the URL. To do so, change the value at the end of the URL stating 'lines=1000'. For exmample, 'lines=1' will reduce the log reoprt to a single line of data. 'lines=400' will display 400 lines of data.

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