

#### BLACKJACK BLADE HARDWARE F1 Power Button F2 Power Status LED

**F3** HDD Status LED

F4 SD Card Reader

**F6** ODD Eject Button

**B1** Microphone Jack

**B4** Kensington Lock

**B7** D-Sub (VGA) Port

**B8** Power Jack (DC-in)

**F7** USB 2.0 Port

F8 Vertical Stand

**B3** LAN Port

**B5** HDMI Port

B6 USB 2.0 Ports

F5 ODD / Second HDD (optional)

B2 Headphone / Line-out Jack

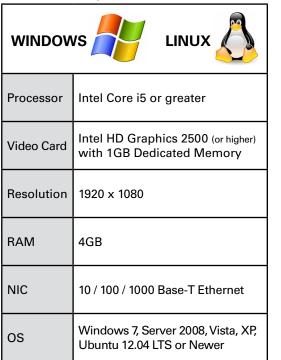
SPECIFICATION			
Max. Number of Cameras Supported (Recording)	Up to 16		
Recording Performance	176Mbps*		
Network	Gigabit(1x)		
Video Compression	H. 264		
Megapixel Recording	Up to 20 Megapixel		
Multi-Server Monitor	Up to 128 Channels		
Advanced Motion Detection	Yes		
Video Port	VGA / HDMI		
Local View	No		
OS	Linux		
Storage Capacity	2 TB(2x1TB HDD)		
Hard Drive Interface	2.5" SATA, SSDx2		
USB Ports	5xUSB 2.0		
Warranty	3 years		
Dimension	10"(L) x 1.6"(W) x 6.4"(H)		
Net Weight	4.53 lbs		



# **HARDWARE REQUIREMENTS**

\* Monitor, keyboard and mouse must be purchased separately

#### Recommended Specs for Client:



#### Network Requirements:

IEEE 802.3ab 1000BASE-T **Gigabit Ethernet** 

**B11** WAN & USB 2.0 Ports \* Cameras and servers in the network must be completely isolated **B12** Clear CMOS Button

**B13** USB 2.0 Ports

**B14** LAN (Second Card)

F3

**F1** HDD LED

**F3** 5.25" Bay

F4 USB 2.0 Port

F5 Microphone

F6 Headphone

**F7** USB 2.0 Port

**B1** AC Power Socket

**B2** Kensington Lock

**B7** USB 3.0 Ports

**B9** Line-Out Jack

B10 Line-In Jack

**B8** Microphone Jack

F2 Power Button / Power LED

**B3** Serial Port Perforation (optional)

**B4** SPDIF Out Port (optional)

**B5** DVI-I Port (for HDMI)

**B6** DVI-D Port (for analog)

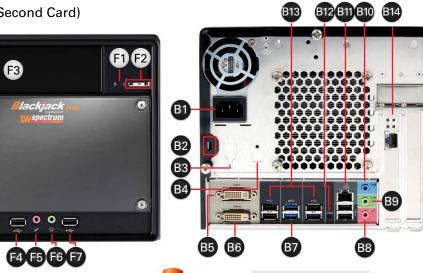
\* NOTE: if you are not connecting to the Blackjack from within the same network, you may be required to perform port forwarding on your router to access the server. Contact your Network Administrator or Installer for additional information

#### Mobile Access:

Web	Internet Explorer, Firefox, Safari, Opera, Chrome
Apps	Android OS

### **BLACKJACK CUBE HARDWARE**

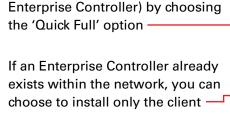
SPECIFICATION		
Max. Number of Cameras Supported (Recording)	Up to 64	
Recording Performance	360Mbps*	
Network	Gigabit(2x)	
Video Compression	H. 264	
Megapixel Recording	Up to 20 Megapixe	
Multi-Server Monitor	Up to 128 Channels	
Advanced Motion Detection	Yes	
Video Port	DVI/HDMI	
Local View	Yes	
Storage Capacity	9TB(3x3TB HDD)	
Hard Drive Interface	3.5" SATA, SSDx3	
USB Ports	8xUSB 2.0	
Warranty	5 years limited	
Dimension	12.8"(L) × 8.5"(W) × 7.5"(H	



# Windows 7



CDECIEICATION When installing, you may choose to install all three components of the software (Client, Media Server, and



Or you can choose which components you wish to install by choosing the 'Advanced' option-

The three components of the DW Spectrum software are:

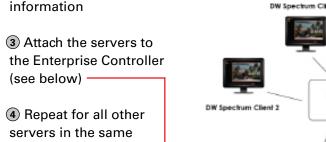
1. Digital Watchdog DW Spectrum Client (For viewing video recorded elsewhere)

2. Digital Watchdog Media Sever (For recording local video using the PC)

3. Enterprise Controller (For managing database)

\* Enterprise Controller should not be installed more than once in the same network

## **SYSTEM ARCHITECTURE**



**Locating your IP address on Windows and Linux** 

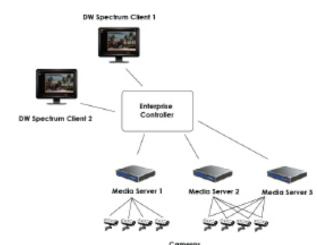
**5** Enter primary EC's IP adress, port, and login information to enable live view

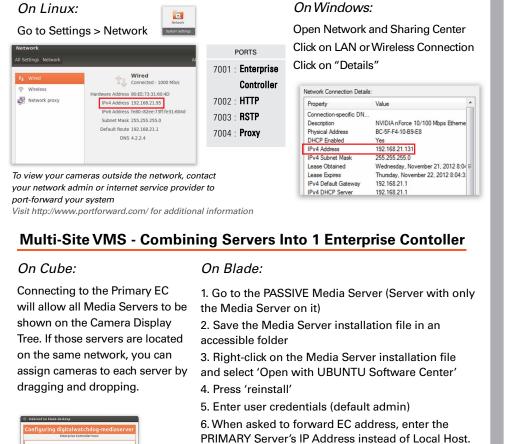
network

1 Select Your Primary

**Enterprise Controller** 

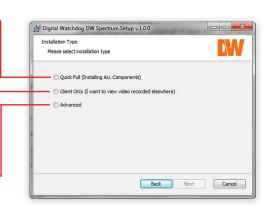
2 Find the IP and Port

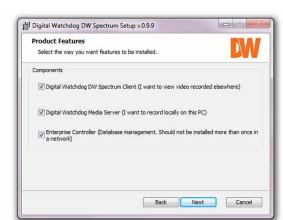


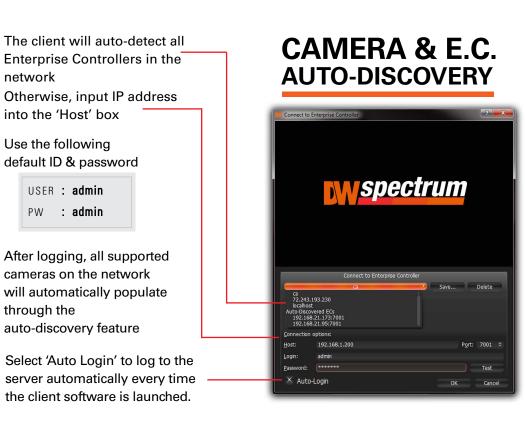


# **SOFTWARE INSTALLATION**

7. If necessary, adjust default port, user and







# **LICENSE REGISTRATION**

The Blackjack Servers come equipped with complimentary four (4) free recording licenses that needs to be activated.

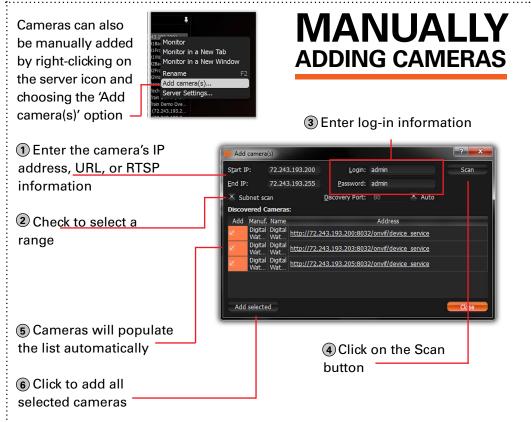
In addition, any licenses purchased with the hardware will be found at the bottom of the Blade's hardware, as a sixteen- digit code that needs to be activated.

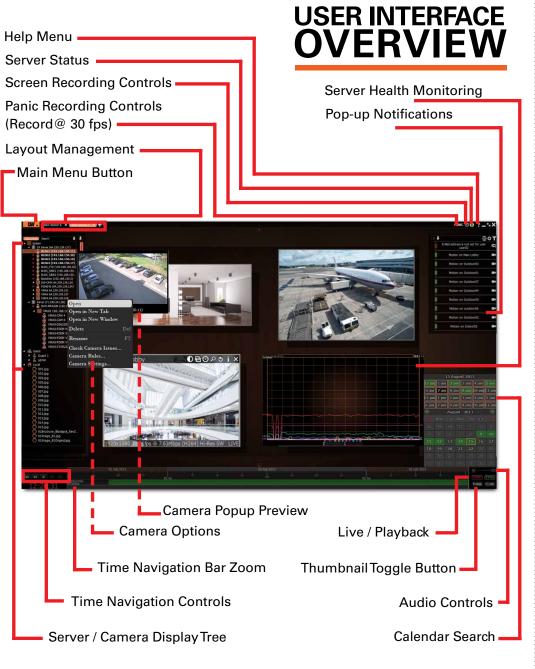
#### If your server has internet access-

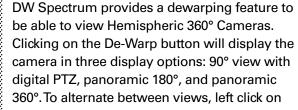
- 1. Go to DW Menu Button > System Settings > Licenses.
- 2. Select 'Automatic Activation via Internet' from the drop-down options.
- 3. Input your sixteen-digit license key
- 4. Press 'Activate License'. The system will notify you if the activation was successful or not.
- 5. If your licenses have been registered successfully, they will appear under the Active Licenses table.

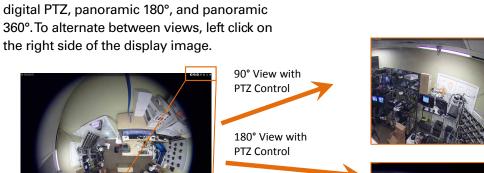
#### If you do NOT have internet access-

- 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 your server.
- 4. E-mail your Hardware ID and your License Key to <a href="mailto:support@dwcc.tv">support@dwcc.tv</a>. 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'.









# 360° View with PTZ Control ●●のちi×

# **ADVANCED PTZ**

Clicking on the PTZ icon on the top-right corner of the window will bring up buttons for control



**ADVANCED** 

**CAMERA OPERATIONS** 

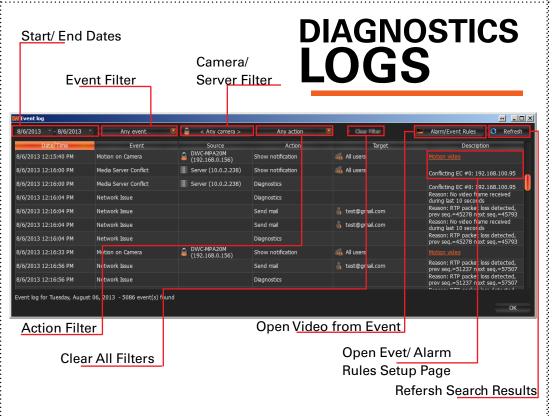
To zoom the camera: Use the + / - buttons to zoom the camera in or out.

To move the camera: Click and hold the circle in the middle of the PTZ controller and move it to where you want the camera to move to. For precise movement, left click on the are of the display you want the camera to move to.

To move + zoom the camera: Hold Left Mouse Button and draw the rectangle to zoom

To zoom out: double click anywhere on the screen.

To save a preset: move the camera to the position, right-click and select PTZ > Save Current Position. DW Spectrum supports 9 Presets.



# **MULTI-LEVEL** MOTION MASKING

Indicates Recording Type

Motion + Low-Res Always

Record Always Motion Only

Not Recording

Camera Name

Resolution

Bit rate -

Codec

ServerTime



ADVANCED MOTION

**CAMERA VIEW** 

WINDOW



Selected area for motion detection -Corresponding video for selected area

Motion tracing

Select camera area by clicking & dragging to apply sensitivity settings

(8 is default)

0 to 9 Sensitivity Settings

\* Gray - Motion Mask Areas marked gray will not capture motion

The DW Spectrum Events Log allows you to monitor camera events, server erros, and network erros easy and fast. The results are based on the Alarm / Event Rules settings. If no Rules are active, only system issues will be saved.

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.

#### Calendar Search

is enabled by clicking on the on the bottom-right corner of the layout screen.

Select a desired date in Calendar. To select multiple dates, use CTRL. Select a desired hour in the upper part Calendar. To select multiple hours, CTRL.

#### **Alarm / Event Rules**

allow you to setup unique rules and actions for events detected by the server such as motion detection, network loss, camera input trigger etc. To configure Rules:

**ADVANCED** 

**OPTIONS & SEARCH** 

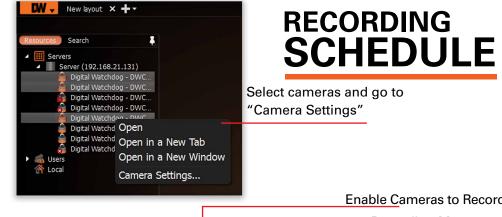
**Graphical HDD Health Monitoring** can be performed by dragging the

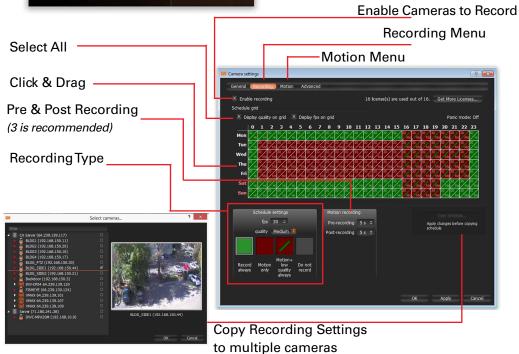
server icon ( ) onto the layout view

1. Select one of the existing rules or press the 'Add' button to create a new rule.

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

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.





Login: Password Confirm Password	er Properties  Guard01  **** : ****			US A(	ER CC(	DU	N٦	ΓS
Email: Access Rights:	Live Viewer  Advanced		ADMIN	CAMERA SETTINGS	PTZ	VIDEO ARCHIVES	EXPORT	VIEW LIVE VIDE
Administrato Can adjust o Can use PT.	camera settings	Administrator	•	•	•	•	•	•
Can view vio	deo archives	Advanced Viewer		•	•	•	•	•
	OK Cancel	Live Viewer						•

### **TROUBLESHOOTING TIPS**

Problem	Possible Solutions	
My camera does	1. Is the camera in the same LAN network as the Enterprise Controller?	
not auto-discover	<ol><li>Is your camera fully compatible with DW Spectrum (refer to our website for full list of supported cameras)</li></ol>	
	3. Is the camera updated to its latest firmware?	
	4. If your camera is integrated with DW Spectrum via OnVIF, make sure OnVIF enabled on your camera.	
	5. Try adding the camera manually.	
	<ol><li>6. Try rebooting the server after installation. Please allow up to 30 seconds for the server map your network and detect all supported devices.</li></ol>	
Videos are slow	1. Are you accessing the same cameras from multiple clients? (LAN & WAN)	
	2. Do you have a Gigabit network? Check your network speed.	
My camera appears	Under camera settings, make sure the user name and password are correct.	
disconnected	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. (Connectivity & compatibility issues can be resolved in new camera firmware)	
	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	Do you have network connection between client and server (in case server and client are not on the same machine)?	
from my camera	<ol><li>Make sure your user has playback viewing permissions for the selected channel.</li></ol>	
	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' message on my camera	1. Make sure the camera's user name and password are properly entered in the camera's general information under the camera settings menu.	
	2. If necessary, try rebooting the camera to apply the camera's user name and password.	

#### Keyboard Shortcut Controls

Name	Hot keys	Description
New Layout	CTRL + t	Creates a new layout
Save Layout	CRTL + s	Saves the current layout
Close Layout	CRTL + w	Closes the current layout
Save Layout As	CTRL + ALT + s	Saves the current layout as a different name
Toggle Side Panel	F11	Shows / hides the side panel
Zoom In / Out	+ or -	Zooms in / out of the screen
Cell Spacing	CTRL + Wheel	Increases / decreases the cell spacing
Duplicate Item	CTRL + Drag	Duplicates any selected windows
Rotation	ALT + Drag	Rotates the target window
Coarse Rotation	CTRL + Rotate	Rotates the target window at 15° intervals
Panic Recording	CTRL + p	Starts / stops the panic record function
Screen Recording	ALT + r	Starts / stops the screen record function
Timeline Selection	[ or ]	Defines the start / end point of timeline selection
Toggle Recording Info	ALT + i	Shows / hides the recording information
Navigate Recording	z or x	Moves forward / backward between recorded chunks

#### 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

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