

Recommended Specs for Client:

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	Windows 7, Server 2008, Vista, XP, Ubuntu 12.04 LTS or Newer		

Network Requirements:

IEEE 802.3ab 1000BASE-T **Gigabit Ethernet** * Cameras and servers in the network must be completely isolated

* 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	

F1 Power Button

- F2 Power Status LED
- **F3** HDD Status LED
- F4 SD Card Reader
- F5 ODD / Second HDD (optional)
- F6 ODD Eject Button
- **F7** USB 2.0 Port
- F8 Vertical Stand
- **B1** Microphone Jack
- B2 Headphone / Line-out Jack
- B3 LAN Port
- **B4** Kensington Lock
- B6 USB 2.0 Ports
- **B7** D-Sub (VGA) Port

B2 Kensington Lock

B7 USB 3.0 Ports

B9 Line-Out Jack

B10 Line-In Jack

B13 USB 2.0 Ports

3

B8 Microphone Jack

B3 Serial Port Perforation (optional)

B4 SPDIF Out Port (optional)

B5 DVI-I Port (for HDMI)

B6 DVI-D Port (for analog)

B11 WAN & USB 2.0 Ports

B12 Clear CMOS Button

B14 LAN (Second Card)

F3

 $\Box \circ \circ \Box$

F4 F5 F6 F7



ODEOIEIOATION

B1

B2

B3-

OPERATING SYSTEM LOGIN

USER : DW-blade

ERPRISE CONTROLLER LOGIN

PW : 1234

USER : admin

PW : admin

Linux OS

F5

F6

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) × 1.6"(W) × 6.4"(H		
Net Weight	4.53 lbs		

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B4

B7

- B8

BLACKJACK CUBE

HARDWARE

SPECIFICATION

Up to 64

360Mbps*

Gigabit(2x)

H. 264

Yes

DVI/HDMI

Max. Number of

(Recording

Network

Detection

Video Port

Local View

USB Ports

Warranty

Dimension

F1 F2

Cameras Supported

Video Compression

Multi-Server Monitor

Advanced Motion

Recording Performance

Megapixel Recording

LOC
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Go to
Network All Settings
t∎ Wired

network

B1-

B2

B3 B4

Windows 7

B5 B6 B7



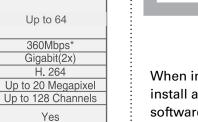
Storage Capacity 3.5" SATA, SSDx3 Hard Drive Interface 8xUSB 2.0 5 years limited 12.8"(L)×8.5"(W)×7.5"(H) B13 B12 B11 B10 B14

•••

B9

B8

Yes TB(3x3TB HDD)

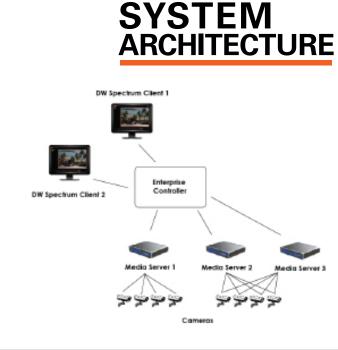


When installing, you may choose to install all three components of the software (Client, Media Server, and Enterprise Controller) by choosing the 'Quick Full' option

If an Enterprise Controller already exists within the network, you can choose to install only the client ----

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

- 1 Select Your Primary **Enterprise Controller**
- 2 Find the IP and Port information
- 3 Attach the servers to the Enterprise Controller (see below)
- 4 Repeat for all other servers in the same 5 Enter primary EC's IP
- adress, port, and login information to enable live view



Locating your IP address on Windows and Linux



Visit http://www.portforward.com/ for additional information

Multi-Site VMS - Combining Servers Into 1 Enterprise Contoller

On Cube:

Connecting to the Primary EC will allow all Media Servers to be shown on the Camera Display Tree. If those servers are located on the same network, you can assign cameras to each server by



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

On Blade:

- 1. Go to the PASSIVE Media Server (Server with only the Media Server on it) 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'
- 5. Enter user credentials (default admin)

🗒 Digital Watchdog DW Spectrum Setu

Quick Full (Installing ALL Comp

Please select installation tv

Digital Watchdog DW Spectrum Setup v.0.9.9

Select the way you want features to be installed

☑ Digital Watchdog DW Spectrum Client (I want to view video recorded elsewhere)

Enterprise Controller (Database management. Should not be installed more than once in

☑ Digital Watchdog Media Server (I want to record locally on this PC)

Product Features

Components

6. When asked to forward EC address, enter the PRIMARY Server's IP Address instead of Local Host. 7. If necessary, adjust default port, user and password

SOFTWARE

INSTALLATION

DW

DW

Back Next Cancel

Back Next Cancel

Enterprise Controllers in the network Otherwise, input IP address into the 'Host' box

The client will auto-detect all

Use the following default ID & password

> USER : admin PW : admin

After logging, all supported cameras on the network will automatically populate through the auto-discovery feature

Select 'Auto Login' to log to the server automatically every time the client software is launched.

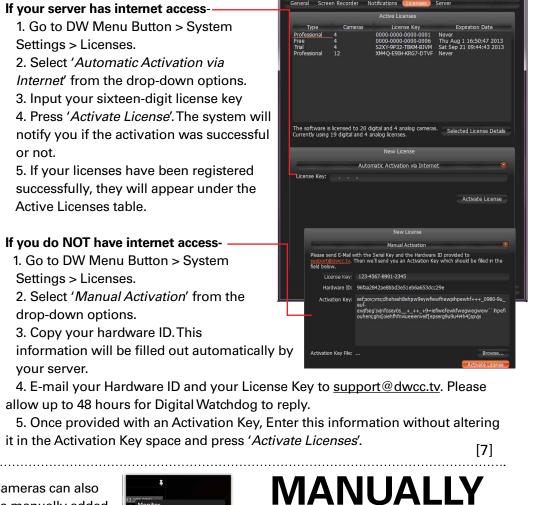




LICENSE REGISTRATION

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.



ADDING CAMERAS

③ Enter log-in information

Address

4 Click on the Scan

× Auto

Login: admin

Password: admin

I Digital http://72.243.193.200:8032/onvif/device service

I Digital Wat http://72.243.193.205:8032/onvif/device service

igital Digital http://72.243.193.203:8032/onvif/device service

button

Cameras can also be manually added by right-clicking on the server icon and choosing the 'Add camera(s)' option

onitor in a New Tab

Server Settings..

Ionitor in a New Window

Start IP:

nd IP:

Subnet scan

Add Manuf. Name

72.243.193.200

72.243.193.255

or not.

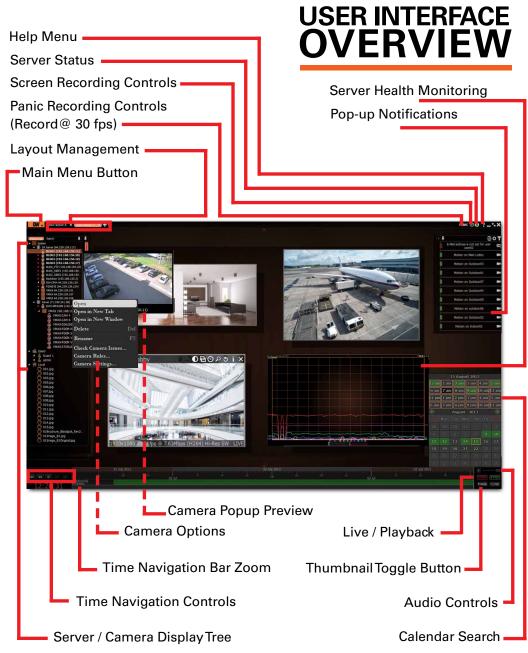
1 Enter the camera's IP address, URL, or RTSP information

2 Check to select a range

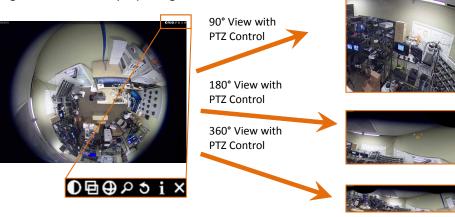
5 Cameras will populate the list automatically

6 Click to add all

selected cameras



DW Spectrum provides a dewarping feature to be able to view Hemispheric 360° Cameras. Clicking on the De-Warp button will display the camera in three display options: 90° view with digital PTZ, panoramic 180°, and panoramic 360°. To alternate between views, left click on the right side of the display image.





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

ADVANCED

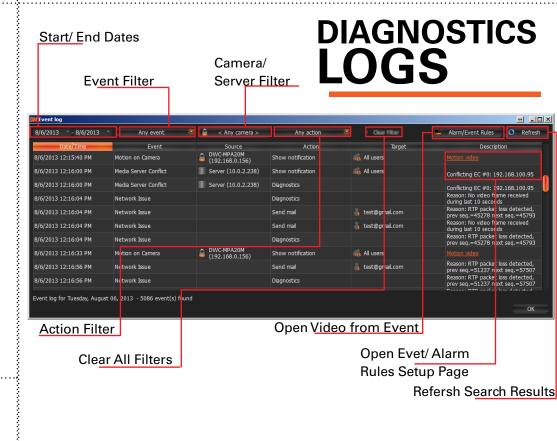
CAMERA OPERATIONS

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 into

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.



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.

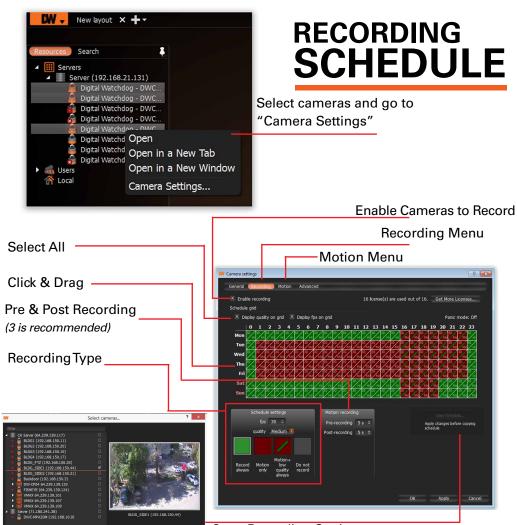
To Export the log's data, select the desired rows, right-click and select Export.



layout screen. hours, CTRL.

Alarm / Event Rules

trigger etc. To configure Rules:



Select All







0 to 9 Sensitivity Settings (8 is default)

Select camera area by clicking & dragging to apply sensitivity settings



MULTI-LEVEL MOTION MASKING

Indicates Recording Type

Motion + Low-Res Always

Record Always

Not Recording

Camera Name

Resolution

FPS ·

Bit rate

Codec

ServerTime

Motion Only



* Gray - Motion Mask

DETECTION

ADVANCED MOTION



Selected area for motion detection -

Corresponding video for selected area

Motion tracing

Areas marked gray will not capture motion

CAMERA VIEW

WINDOW



is enabled by clicking on the 💷 on the bottom-right corner of the

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

allow you to setup unique rules and actions for events detected by the server such as motion detection, network loss, camera input

On Network Iss

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.

> Copy Recording Settings to multiple cameras

Live Viewer

securtech.net	USER ACCOUNTS						
Advanced		ADMIN	CAMERA SETTINGS	PTZ CONTROLS	VIDEO ARCHIVES	EXPORT VIDEO	VIEW LIVE VIDEO
ings	Administrator	•	•	•	•	•	
	Advanced		•	•	•		•
	Viewer				•	•	•



Problem

My camera does

not auto-discover

Possible Solutions



Graphical HDD Health Monitoring can be performed by dragging the server icon (🔳) onto the layout view

	seconds for the server map your network and detect all supported devices.		
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	1. Under camera settings, make sure the user name and password are correct.		
disconnected	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.		
	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	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		

1. Is the camera in the same LAN network as the Enterprise Controller?

4. If your camera is integrated with DW Spectrum via OnVIF, make sure

2. Is your camera fully compatible with DW Spectrum (refer to our

6. Try rebooting the server after installation. Please allow up to 30

website for full list of supported cameras

OnVIF enabled on your camera.

5. Try adding the camera manually.

3. Is the camera updated to its latest firmware?

	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.

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 data.

> Toll Free: 866.446.3595 Fax: 813.888.9262 www.digital-watchdog.com



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