

1Gbps x 2

ATI

VGA / HDMI x 2 / DP x 4

Win 7 64 Bit

Dual Power (1000W

10°C - 35°C (50°F - 95°F

1x Keyboard/ Mouse, 4x USB 2.0, 2x USB 3.0, 1x RS-232, HD Audio in & Out



Network

Video Port

External Ports

Operating Temperatur e

Video

Power

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

* 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, Opera, Chrome				
Apps	Android OS, iOS Smart Phones and Tablets				

* Cameras and servers in the network must be completely isolated

[2]





[4]



RAID **INFORMATION**

All E-Rack models except the DW-BJE2U hardware, come equipped with preinstalled RAID5 option.

To access the E-Rack's RAID configuration:

1. During boot up, press [Ctrl] + [H]/

2. The DW Spectrum Optimized Configuration will appear as seen below.

3. For more information on the RAID Setup on the Blackjack E-Rack models, visit www.lsi.com and check WEBBIOS configuration.

105 Con	nfig Ut	tility (hirtual I	lrive	0					LSI2
: 5		2	Status:	Optin	nal			Strip Si	ze: 512	KB
30.013	ГВ	à	Parity S	ize: 2	.728 TB			1.00		
RW		I	/ <u>o</u>		Cached		Read	Always	Read A	head
Unchar	nged	D	isab <u>l</u> e B	GI	No 🔽					
ite:	Alwa	ays Wri	te Back		-	Curr	ent Writ	e: Write B	ack	
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IS										
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nit	C	<u>c</u> c		C	Expand		Go			
5									í a	den trimmin

The client will auto-detect all Enterprise Controllers in the network Otherwise, input IP address into the 'Host' box 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.





The Blackjack Servers come equipped with complimentary four (4) recording licenses

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

eral Screen Recorder Notifications (Ucenses) Server If your server has internet access-1. Go to DW Menu Button > System Thu Aug 1 16:50:47 20: at Sep 21 09:44:42 20 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 Activate Licens 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 Activate Trial License Activate Lice your 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'. [7] MANUALLY Monitor in a New Tab **ADDING CAMERAS**

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



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

2 Check to select a range

5 Cameras will po the list automatica

6 Click to add all selected cameras

3) Enter	log-in	information

′s IP	Add camera(s)	? ×
ſSP	Start IP: 72.243.193.200 Login: admin	Scan
	End IP: 72.243.193.255 Password: admin	
r	Subnet scan Discovery Port: 80 👗 Auto	
	Discovered Cameras:	
	Add Manuf. Name Address	
	Digital Digital http://72.243.193.200:8032/onvif/device_service	
	Digital Digital http://72.243.193.203:8032/onvif/device service	
	Digital Digital http://72.243.193.205:8032/onvif/device_service	
	Add selected	Cic se
oulate ly	④Click on the Scan button	





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





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

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CAMERA VIEW

WINDOW

ADVANCED MOTION

DETECTION

Selected area for motion detection -

Corresponding video for selected area



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 [11] Current Position. DW Spectrum supports 9 Presets.



The DW Spectrum Events Log allows you to monitor camera events, server errors, and network errors 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 layout screen. part Calendar.

Alarm / Event

allow you to se unique rules a actions for eve detected by the server such as detection, netv loss, camera i trigger etc. To configure Rules:







MULTI-LEVEL

MOTION MASKING

Indicates Recording Type

Motion + Low-Res Always

Record Always

Not Recording.

Motion Only

Camera Name

Resolution -

FPS -

Bit rate

Codec-

ServerTime

0 to 9 Sensitivity Settings (8 is default)

Select camera area by clicking & dragging to



Motion tracing

[10]



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

OPTIONS & SEARCH

ADVANCED

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

	Alarm	/tvent Roles					# _ID ×
	+ +	dd X Delete				📕 Event log 🖉	Advanced
	Fiber by						
Rules	# On	Event		Source	-> Action	Target	Interval of Action
nuies	ø	On Camera Disconnected	â	<any camera=""></any>	Show notification	🚳 Al users	Instant
etup	- 4	On Storage Failure		<system></system>	Show notification	🐔 Al users	Instant
	- 16					D Network Issue	Every 10 seconds
na	ø	On Camera IP Conflict		<system></system>	Show notification	🚮 Al users	Instant
ents	w.	On Media Server Failure		<system></system>	Show notification	🚮 Al users	Instant
51100	×	On Media Server Conflict		«System»	Show notification	📫 Al users	Instant
е	w.	On Camera Disconnected		<any camera=""></any>	Send mail	🚮 Send mai to admin <test@gmail.com></test@gmail.com>	Every 6 hours
motion	ø	On Storage Failure		«System»	Send mail	🐗 Send mail to admin <test@gmail.com></test@gmail.com>	Every 6 hours
motion	ed.	On Network Issue		<system></system>	Send mail	🚳 Send mai to admin <test@gmail.coms< td=""><td>Every 6 hours</td></test@gmail.coms<>	Every 6 hours
work	ei.	On Camera IP Conflict		<system></system>	Send mail	🌆 Send mail to admin <test@gmail.com></test@gmail.com>	Every 6 hours
nnut	¥6	On Media Server Failure		<system></system>	Send mail	🚳 Send mail to admin <test@gmail.com< th=""><th>Every 6 hours</th></test@gmail.com<>	Every 6 hours
nput	ø	On Media Server Conflict		<system></system>	Send mail	🐔 Send mail to admin <test@gmail.com></test@gmail.com>	Every 6 hours
	• %	On Motion on Carnera start	â	<any camera=""></any>	Play sound	Alarm Clock 1	Instant
lules.	Reset	Default Rules				OK Apply	Cancel

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. [13]

> Copy Recording Settings to multiple cameras

es es psecuritech.net ve Viewer 3			US AC	ER CCC	DU	N٦	٢S
Advanced		ADMIN	CAMERA SETTINGS	PTZ CONTROLS	VIDEO ARCHIVES	EXPORT VIDEO	VIEW LIVE VIDEO
tings	Administrator	٠	•	•	•	•	
25	Advanced		•	•	•	•	•
	Viewer				•	•	
ж Cancel	Live Viewer						•

My camera does not auto-discover	 Is the camera in the same LAN network as the Media Server? Is your camera fully compatible with DW Spectrum (refer to our website for full list of supported cameras) 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.
	 6. Try rebooting the server after installation. Please allow up to 30 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	 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.
	 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 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.
message on my camera	If necessary, try rebooting the camera to apply the camera's user name and password.

Possible Solutions

Problem

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 data.

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TROUBLESHOOTING