

BLACKJACK CUBE F2 Power Button / Power LED **HARDWARE** F4 USB 2.0 Port

F1 HDD LED

F3 5.25" Bay

F5 Microphone

F6 Headphone

F7 USB 2.0 Port

B1 AC Power Socket

B2 Kensington Lock

B5 USB 3.0 Ports

B7 Line-Out Jack

B8 Line-In Jack

B11 USB 2.0 Ports

B6 Microphone Jack

B9 WAN & USB 2.0 Ports

B10 Clear CMOS Button

B12 LAN (Second Card)

B3 DVI-I Port (for Analog Monitor)

B4 DVI-D Port (for Digital Monitor)

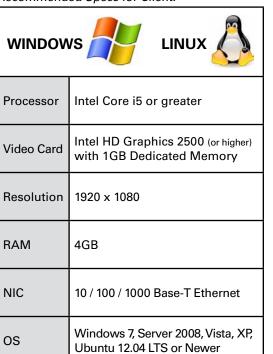
SPECIFICATION				
Max. Number of Cameras Supported (Recording)	Up to 64			
Recording Performance	360Mbps*			
Network	Gigabit(2x)			
Video Compression	H. 264			
Megapixel Recording	Up to 20 Megapixel			
Multi-Camera Monitor	Up to 128 Channels			
Advanced Motion Detection	Yes			
Video Port	DVI-I / DVI-D			
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)			



CLIENT REQUIREMENTS

* Monitor, keyboard and mouse must be purchased separately

Recommended Specs for Client:



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

[2]

BLACKJACK CUBE TRAY TOOL

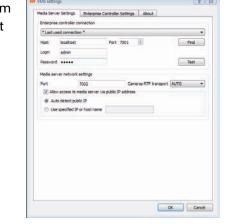
If you have the Media Server and / or Enterprise Controller installed on your Windows station, you can control the server's connection to the Enterprise Controller, view server logs and start and stop the server from the DW Spectrum Tray Tool.

The Tray Tool is located at the bottom right-hand corner of the Cube's Desktop.

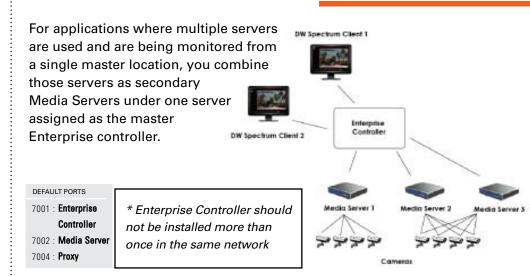
1. Press the arrrow at the bottom right-hand corner of the desktop and click on the DW Spectrum icon.

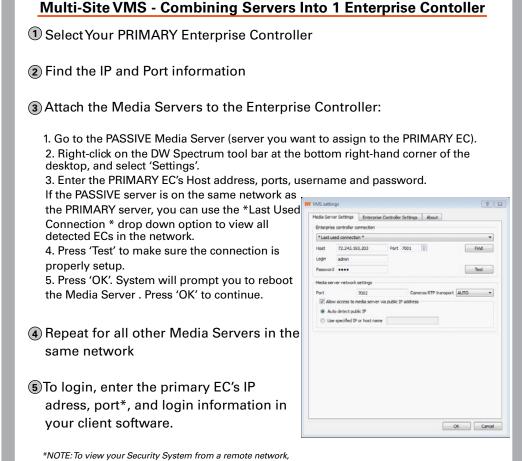
- 2. Select one of the following options:
- a. Start/ Stop Media Server- Manually restart the Media Server.
- b. Start/ Stop Enterprise Controller- Manually restart the Enterprise Controller
- c. Settings-Open Server settings page, including: Meida Server Settings, Enterprise Controller Settings, and About Software information.
- d. Show Media Server Log-The system will open the Media Server's log report in a web browser page.
- e. Show Enterprise Controller Log-The system will open the Enterprise Controller's log report in a web browser page.
- f. Quit- Exit the Tray Tool options.
- 3. If 'settings' were selected, you can change the Media Server's EC connection, change the master admin username and passowrd, and change the server's ports as necessary.
- Please consult your network administrator before changing any of the Blackjack Cube's settings.





MULTI-SERVER SETUP





the PRIMARY EC's ports need to be forwarded in the router.

To install the DW Spectrum full software

Watchdog's website at dwcc.tv.

3. Select the installation option:

1. Download the installation file from Digital

a. Quick Full- install all three components

c. Advanced- manually select which

b. Client Only- install only the DW Spectrum

4. Enter the admin credentials and complete the

5. If you are installing the Media Server only,

enter the PRIMARY EC's IP Address, Port, and

login information to attach the new Media

Server to that Enterprise Controller.

The three components of the DW

1. Digital Watchdog DW Spectrum Client

(For viewing video recorded elsewhere)

(For recording local video using the PC)

Spectrum software are:

2. Digital Watchdog

3. Enterprise Controller

(For managing database)

* Enterprise Controller should not be installed more than

Media Sever

2. Double-click on the installation file to run the

package:

client.

installation.

installation wizard.

components to install

Contact your Network Admin or Internet Service Provider for more

SOFTWARE

INSTALLATION



Media Server Only Installation:

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**

CAMERA & E.C.

AUTO-DISCOVERY

Spectrum

REGISTRATION

eral Screen Recorder Notifications (Ucenses) Server

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

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

If your server has internet access-

The client will auto-detect all

Enterprise Controllers in the

Otherwise, input IP address

into the 'Host' box

Use the following

default ID & password

USER: admin

PW : admin

After logging, all supported

network

- 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
- 5. If your licenses have been registered successfully, they will appear under the Active Licenses table.

If you do NOT have internet access-

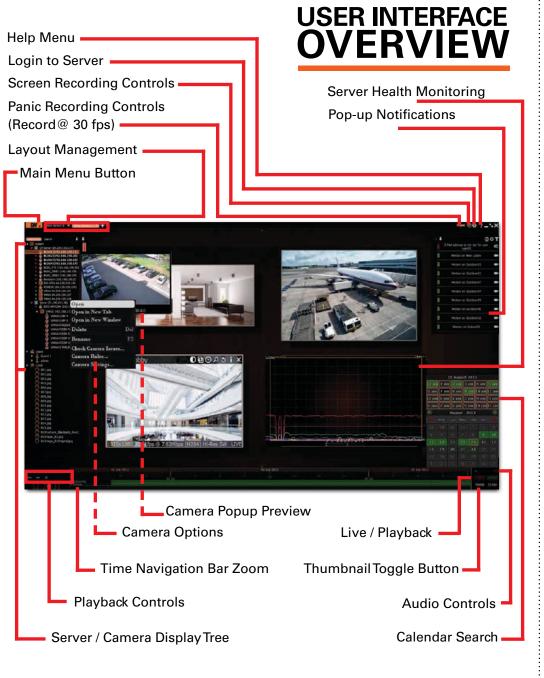
- 1. Go to DW Menu Button > System Settings > Licenses.
- 2. Select 'Manual Activation' from the
- drop-down options.
- 3. Copy your hardware ID. This information will be filled out automatically by
- 4. E-mail your Hardware ID and your License Key to licenses@dwcc.tv. Please allow up to 48 hours for 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]

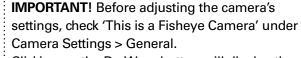


3 Enter log-in information 1 Enter the camera's IP address, URL, or RTSP Password: admin information 2 Check to select a range (5) Cameras will populate the list automatically 4 Click on the Scan button

6 Click to add all selected cameras

once in the same network [4] [8]

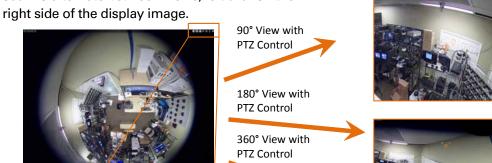




Clicking on the De-Warp button will display the camera in three display options: 90° view with digital PTZ, panoramic 180°, and panoramic

360°. To alternate between views, left click on the

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ADVANCED PTZ

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



ADVANCED

CAMERA OPERATIONS

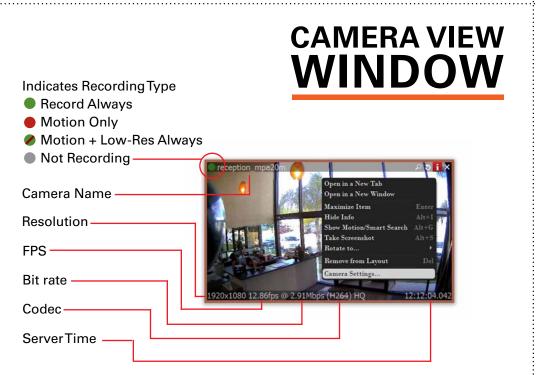
To zoom the camera: Use the + / - buttons to zoom the camera in or out.

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.

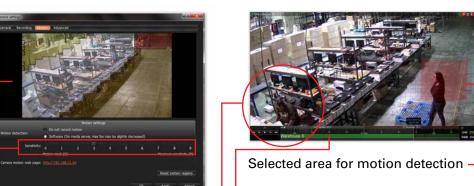
To move + zoom the camera: Hold Left Mouse Button and draw the rectangle to zoom

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 ADVANCED MOTION DETECTION MOTION MASKING



Corresponding video for selected area

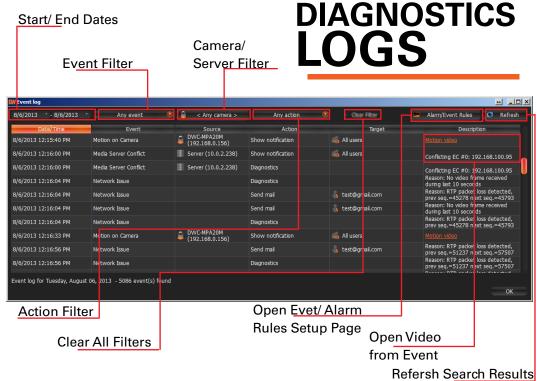
[10]

(8 is default) Motion tracing Select camera area by clicking & dragging to

0 to 9 Sensitivity Settings

apply sensitivity settings

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



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.

[12]

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

6 pm 7 pm 8 pm 9 pm 10 pm 11 pm

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

Select a desired date in Calendar. part Calendar.

Calendar Search

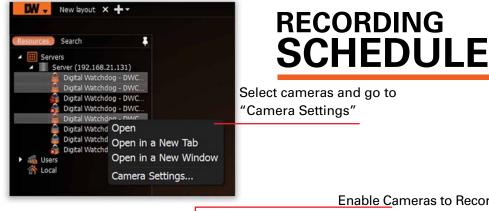
layout screen.

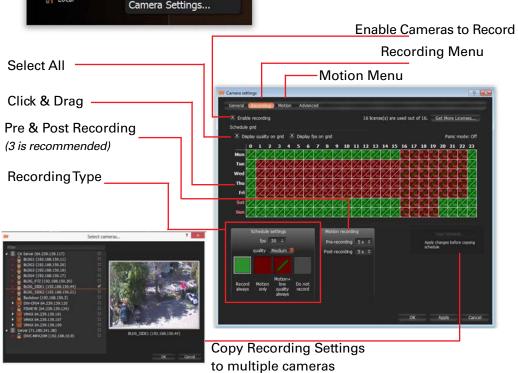
To select multiple dates, use CTRL. Select a desired hour in the upper

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:

- 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
- 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]





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Confirm Passwor	d: ****			H	ノしし	JU	IV	J
Email:	guard1@securitech.net							
Access Rights:	Live Viewer :							
	Advanced		ADMIN	CAMERA	PTZ	VIDEO	EXPORT	VIEW
	Access rights		ADIVINI	SETTINGS	CONTROLS	ARCHIVES	VIDEO	LIVEVIDEC
Administra	itor							Τ_
	t camera settings	Administrator	•	•	_	•	•	•
	TZ controls video archives	Advanced						
		Auvanceu						
		Viewer				•	•	•
		Live Viewer						

ADVANCED OPTIONS & SEARCH



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

TROUBLESHOOTING TIPS

Problem	Possible Solutions			
My camera does	1. Is the camera in the same LAN network as the Media Server?			
not auto-discover	Is your camera fully 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 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.			
	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	2. 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.			
I 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.			
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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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