

# Blackjack<sup>®</sup> MINI<sup>™</sup>

Servers Powered by DW Spectrum<sup>®</sup> IPVMS

Non-RAID	RAID1
DW-BJMINI2T	DW-BJMINI8TR
DW-BJMINI4T	DW-BJMINI16TR
DW-BJMINI8T	DW-BJMINI20TR
DW-BJMINI12T	
DW-BJMINI16T	
DW-BJMINI20T	



Default login Information for Blackjack<sup>®</sup> MINI<sup>™</sup>

Username: <b>admin</b>	Password: <b>admin1234</b>
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## WHAT'S IN THE BOX

12V DC Adapter & Power Cable



1 Set

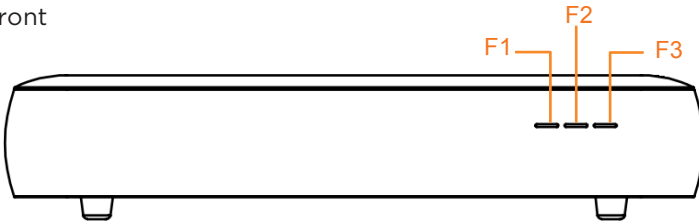
**NOTE:** Download All Your Support Materials and Tools in One Place

1. Go to: <http://www.digital-watchdog.com/support-download/>
2. Search for your product by entering the part number in the “**Search by Product**” search bar. Results for applicable part numbers will populate automatically based on the part number you enter.
3. Click “**Search**”. All supported materials, including manuals, Quick Start Guide (QSG), software and firmware will appear in the results.

**Attention: This document is intended to serve as a quick reference for initial set-up. See the DW Spectrum<sup>®</sup> full manual for more information on features and functionality.**

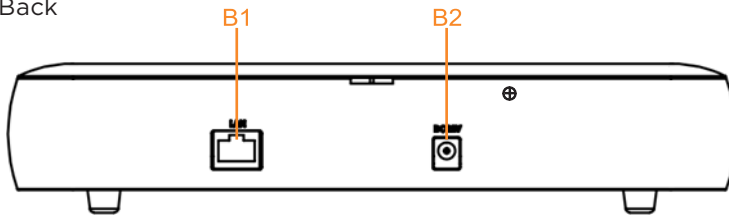
## HARDWARE

Front



- F1 HDD1 LED
- F2 HDD2 LED
- F3 POWER LED

Back

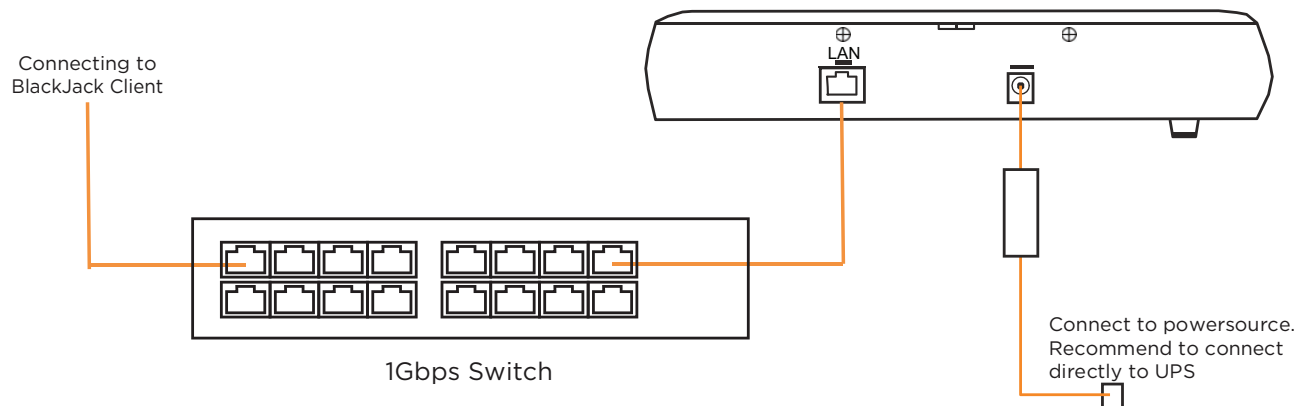


- B1 LAN (Gigabit Ethernet Port)
- B2 DC Power Port (12V)  
(No power switch)

## SETTING UP THE BLACKJACK<sup>®</sup> MINI<sup>™</sup>

Prepare a computer running Windows<sup>®</sup> operating system and install DW Spectrum<sup>®</sup> Client and DW IP Finder<sup>™</sup>. Connect the computer to the same network or network switch where the Blackjack<sup>®</sup> MINI<sup>™</sup> will be connected.

- DW Spectrum<sup>®</sup> Client can be downloaded from following site in the software tab.  
(Make sure to download “client” only)  
<https://digital-watchdog.com/productdetail/DW-Spectrum-IPVMS/>
- DW IP Finder<sup>™</sup> can be downloaded from following site in the software tab.  
<https://digital-watchdog.com/productdetail/DW-IP-Finder/>



### STEP 1: Connecting the power cable.

1. Connect the power cable to the DC power port. The device will automatically power on.
2. You can check whether the power is on at the front power LED.

## STEP 2: Connecting to the Network


1. Locate the network switch where the Blackjack<sup>®</sup> MINI<sup>™</sup>, cameras and the computer running DW Spectrum<sup>®</sup> client will be connected.
2. Connect a network patch cable from the Ethernet LAN adapter (RJ45) on the Blackjack<sup>®</sup> MINI<sup>™</sup> to the network switch. (Network cable not included).

**NOTE:** It is required to use a Gigabit switch for stable performance

The screenshot displays the DW IP Finder Ver 4.4.0 interface. On the left, there are several control panels: 'Network' with a dropdown for 'IP CAM [192.168.150.100]', 'Devices' with a dropdown for 'All', and a 'Scan Devices' button; 'Show/Hide thumbnail' with a checked 'Thumbnail' option and a 'Refresh Thumbnail' button; and 'Assign IP address in bulk' with 'Bulk IP Assignment' and 'FW Upgrade' buttons. The main area shows a table of discovered devices. Annotations with arrows point to specific parts of the interface: 'Select which network to scan' points to the network dropdown; 'Filter search by device type' points to the device dropdown; 'Show/Hide thumbnail' points to the thumbnail checkbox; 'Assign IP address in bulk Upgrade firmware' points to the bulk assignment and upgrade buttons; 'Device information' points to the table headers; 'Send ping to the device' points to the 'Ping Test' column; and 'Open Device Setting' points to the 'IP Conf.' column. The table contains the following data:

Name	IP Address	Model	MAC Address	Netmask	Gateway	Port	DHCP	Version	Ping Test	IP Conf.	Uptime
DWC-PZ21M69T	192.168.150.41	DWC-PZ21M69T	00:0D:F1:21:29:21	255.255.255.0	192.168.150.1	80	Disabled	A5.01.03_20180405	Ping	Click	1...
DWC-MV44WA	192.168.150.132	DWC-MV44WA	00:0D:F1:21:53:66	255.255.255.0	192.168.150.1	80	Disabled	A2.01.02_20180615	Ping	Click	5day 2...
DWC-MV44WA	192.168.150.170	DWC-MV44WA	00:0D:F1:21:53:67	255.255.255.0	192.168.150.1	80	Disabled	A2.01.02_20180615	Ping	Click	5day 2...
DWC-MV44WA	192.168.150.131	DWC-MV44WA	00:0D:F1:21:53:81	255.255.255.0	192.168.150.1	80	Disabled	A2.01.02_20180615	Ping	Click	5day 2...
DWC-MV44WA	192.168.150.40	DWC-MV44WA	00:0D:F1:21:53:8F	255.255.255.0	192.168.150.1	80	Disabled	A2.01.02_20180615	Ping	Click	5day 2...
DWC-MV84WA	192.168.150.171	DWC-MV84WA	00:0D:F1:21:53:94	255.255.255.0	192.168.150.1	80	Disabled	A2.01.02_20180615	Ping	Click	5day 2...
DWC-PVX16W4	192.168.150.42	DWC-PVX16W4	00:0D:F1:21:5C:AD	255.255.255.0	192.168.150.1	80	Disabled	S2.01.03_20180309	Ping	Click	3...

(DW IP Finder version 4.4.0 shown)

3. From the Windows based Blackjack<sup>®</sup> server, Client or any Windows<sup>®</sup> PC, open DW IP Finder<sup>™</sup> by double clicking on the DW IP Finder<sup>™</sup> icon on  the Desktop or click on DW IP Finder<sup>™</sup> from Start Menu > All Programs > DW IP Finder<sup>™</sup>

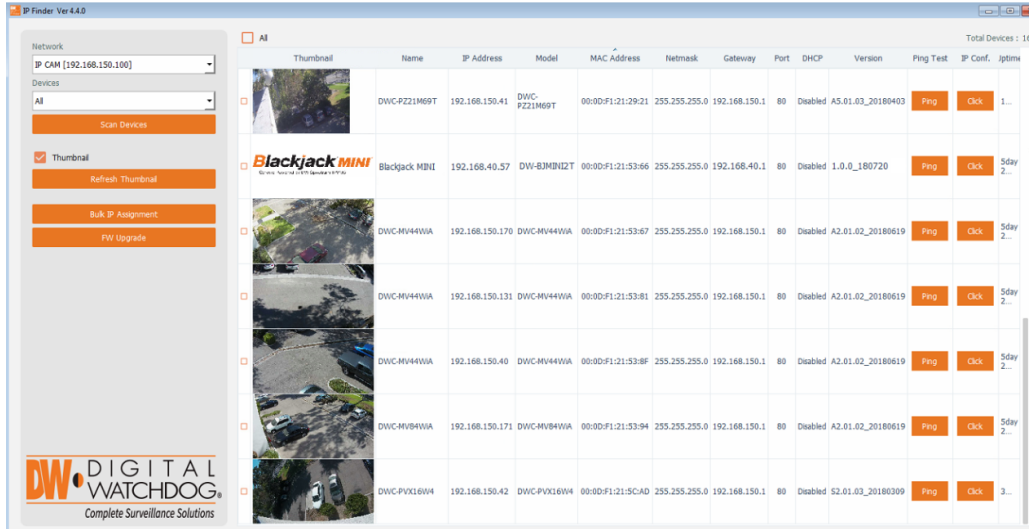
4. If the DW IP Finder<sup>™</sup> is not installed or not the latest version, download and install from <http://digitalwatchdog.com/support>.

- Under Software, select DW IP Finder<sup>™</sup> from the drop down list.
- Then go to downloads section and expand software/firmware.
- Click on the download icon to download the DW IP Finder<sup>™</sup>.
- Then install the DW IP Finder<sup>™</sup> by following the installation wizard.
  - \* Requires DW IP Finder<sup>™</sup> 4.3.17 or later version.

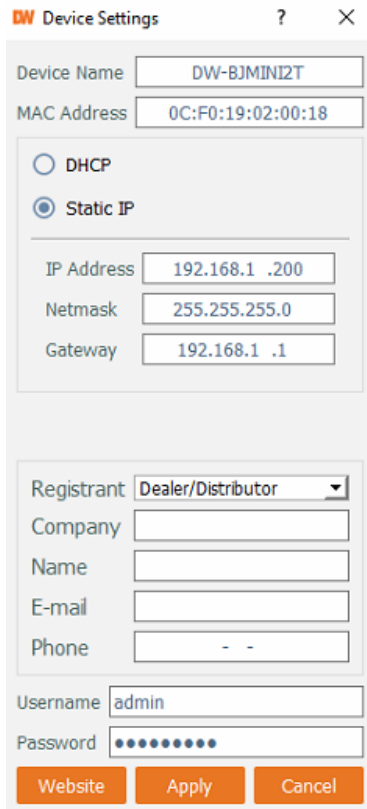
5. When the DW IP Finder<sup>™</sup> is opened, click  to scan all the DW cameras and Blackjack<sup>®</sup> models that are on the network.

6. If the Blackjack<sup>®</sup> MINI<sup>™</sup> is not listed, change the Network\* by clicking the drop down and select another network if it exists. Then click **Scan Devices** to scan the network for the Blackjack<sup>®</sup> MINI<sup>™</sup>.

7. Find the Blackjack<sup>®</sup> MINI<sup>™</sup> in the list, then either double click on the **Blackjack MINI** or click on the **Click** under the IP Conf column.



8. From the Device Settings, enter IP Address, Netmask and Gateway then click Apply to save changes.



9. Click **Scan Devices** to update the IP address of the Blackjack<sup>®</sup> MINI<sup>™</sup>.

10. Follow #7 to open the Device Settings and register the product.

- Select Registrant, enter Company, Name, Email and Phone, then click Apply.

\* Internet connection is required for product registration.

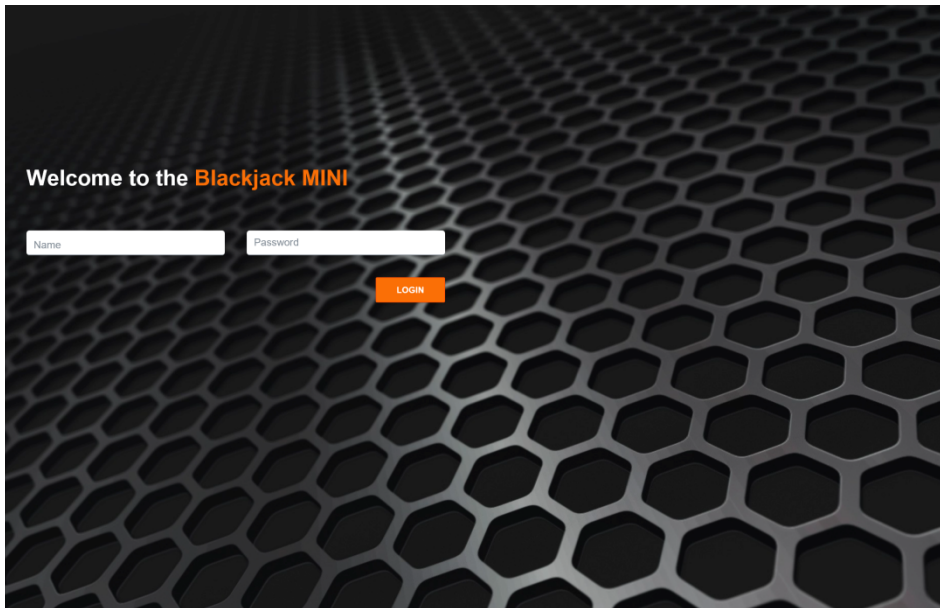
**NOTE:** Default IP Info

IP Address: 192.168.1.200,  
Subnetmask: 255.255.255.0  
Gateway: 192.168.1.1

\* Consult with your IT or network administrator if you do not have IP information.

11. If you have separate subnet for the cameras, you can assign secondary IP address for the cameras' network from the DW-BJMINI's management web page and follow a thru g. If not you can proceed to Step 3 Setting Date and Time.

a. If you want to login to the web server, enter the IP address of the DW-BJMINI from the internet browser or click on the  button in the above Device Settings from the DW IP Finder<sup>™</sup>.



b. When the web page is opened, enter the user name and password.

**NOTE:** Default login Information

Login name: **admin**, Password: **admin1234**

\* You can click CHANGE LATER to change the password later in Default Password Warning dialog box.

c. Click on the  tab and then click on the  from the drop down list.

d. Enter the Secondary IP Address and Subnet Mask where the cameras are connected.  
The Secondary IP Address must not be same subnet as Primary IP Address.

**Network**

**TCP/IP Configuration**

Network Type  Static  Dynamic

MAC Address

Primary IP Address

Subnet Mask

Default Gateway

Secondary IP Address  (Use for camera network)  
Must not be same subnet as Primary IP Address

Subnet Mask

**DNS Settings**

Primary DNS

Secondary DNS

**APPLY**

e. Click OK on the warning message

All connections may be disconnected.  
Are you sure you want to apply?

**CANCEL** **OK**

f. Click on the **APPLY** button to apply all changes.

g. Click OK on the Success dialog box.

Success to change the network settings.  
Please login again.

**OK**

### STEP 3: Setting Date and Time

BJMINI will automatically sync time with pool.ntp.org time server if it is connected to the Internet

1. Open the DW-BJMIN's management page by following Step2 11a and 11b.
2. Click on the **System** tab then click on the **Date & Time** from the drop down list.
3. Verify the Current Time is correct. If the date and/or time are not correct, proceed to next lines. If the data and time are correct, skip to 6
4. Change the Time Zone to the correct time zone if needed. (Time zone is defaulted to Pacific Time)
5. If the Current Time is not correct, change the Time Setting Mode to Manual and adjust Date and Time

Storage System

### Date & Time

Current Time 2018-07-20 08:32:34

### Time Zone Settings

Time Zone (GMT-08:00) Pacific Time (US & Canada), 1

### Time Settings

Mode  Manual

Date 2018-07-20

Time 10:58:40

Synchronize with NTP Server

Server pool.ntp.org

APPLY

6. Click Apply when done.

7. Click OK from the Success dialog box.

Success



8. Close BlackJack MINI's management web page and DW IP Finder<sup>™</sup> is no longer needed.

## Spectrum Client



Linux OS

### LINUX-BASED SOFTWARE MANUAL LAUNCH

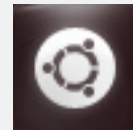
To launch the DW Spectrum<sup>®</sup> Software on the Linux-Based Cube:

**OPTION 1:** Double-click the DW Spectrum<sup>®</sup> desktop icon.



OR

**OPTION 2:** Go to the dashboard on the top left side. Search 'DW'. Click the DW icon.

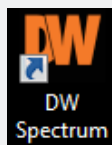


Windows

### WINDOWS-BASED SOFTWARE MANUAL LAUNCH

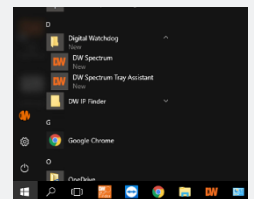
To launch the DW Spectrum<sup>®</sup> Software on the Windows-Based Cube:

**OPTION 1:** Double-click the DW Spectrum<sup>®</sup> desktop icon.



OR

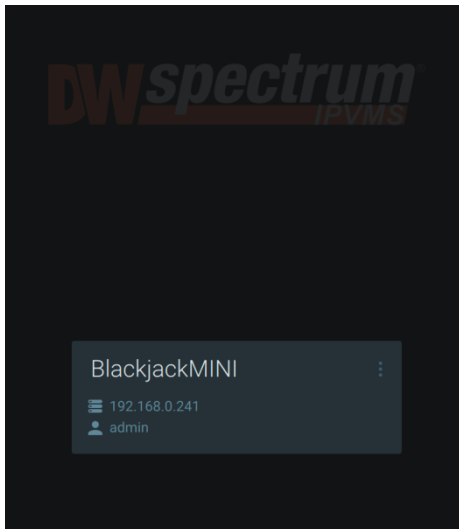
**OPTION 2:** Go to 'Start' on the bottom left and select DW Spectrum<sup>®</sup> in the Digital Watchdog folder



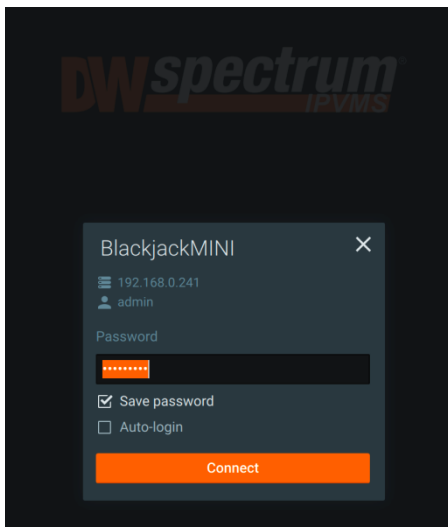
## SETTING UP DW SPECTRUM<sup>®</sup> MEDIA SERVER

### STEP 1: Initial run from DW Spectrum Client

1. Open DW Spectrum<sup>®</sup> Client by double click on the DW Spectrum icon
2. Click on the preconfigured Blackjack<sup>®</sup> MINI<sup>™</sup>.



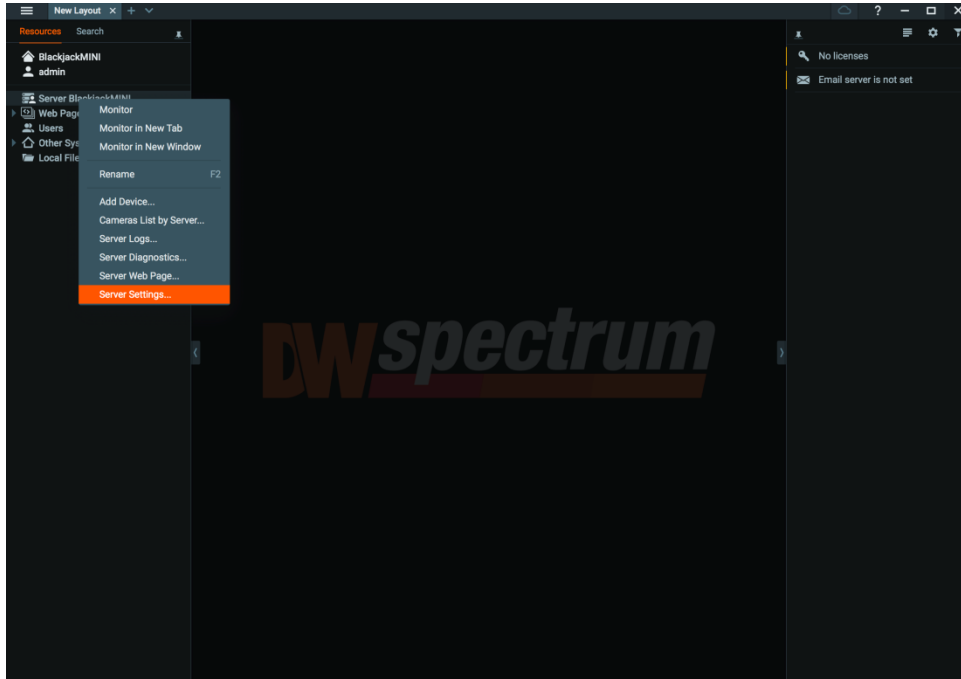
3. Enter password and click connect.  
\* Default password: admin1234 (case sensitive)



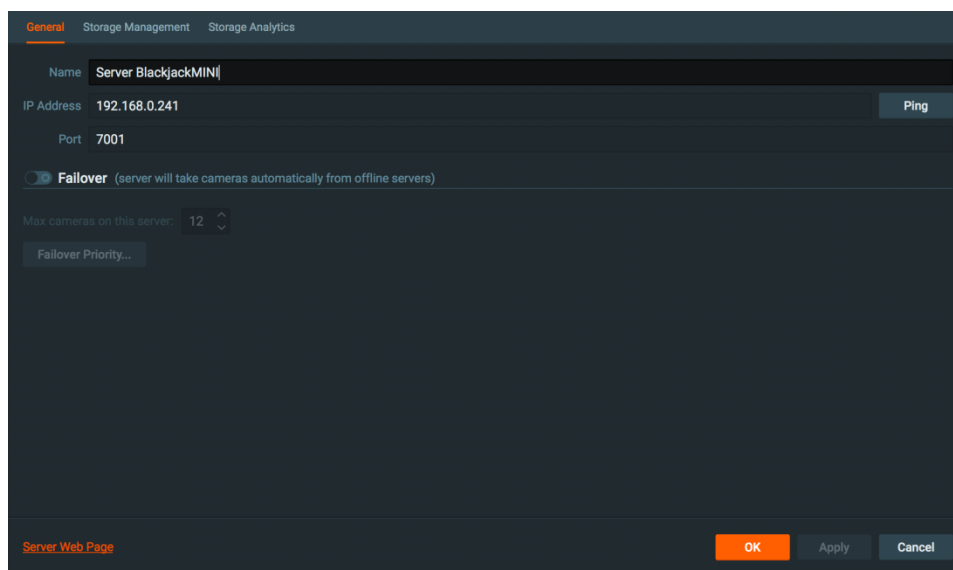


## STEP 2: To rename the server


1. Right click on the server name listed on the Resources then click Server Settings.

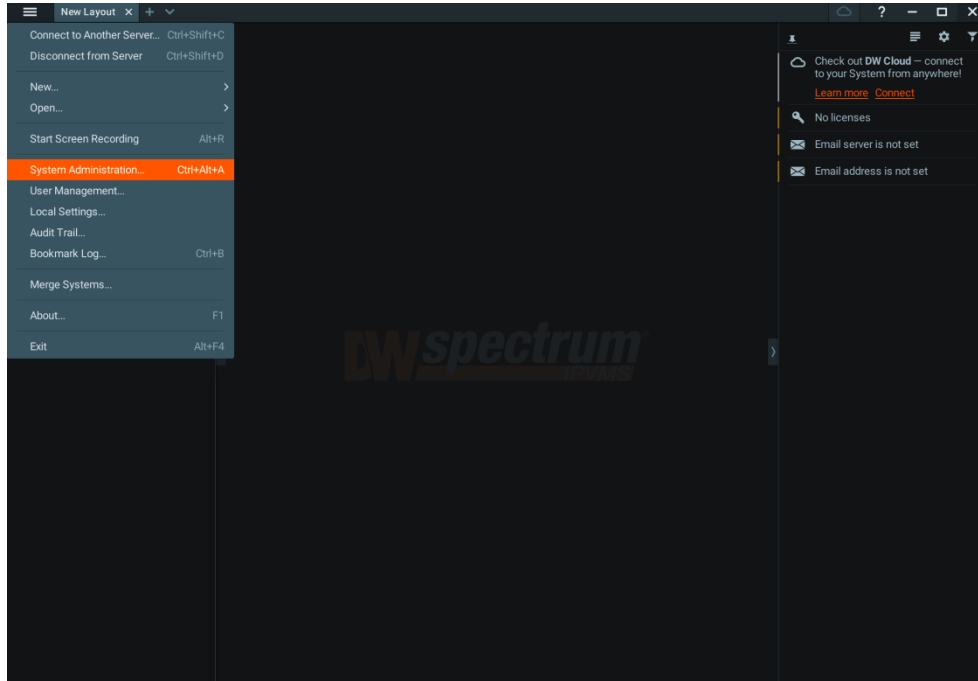


2. Go to General tab, then type in the new server name in the Name field and click OK.

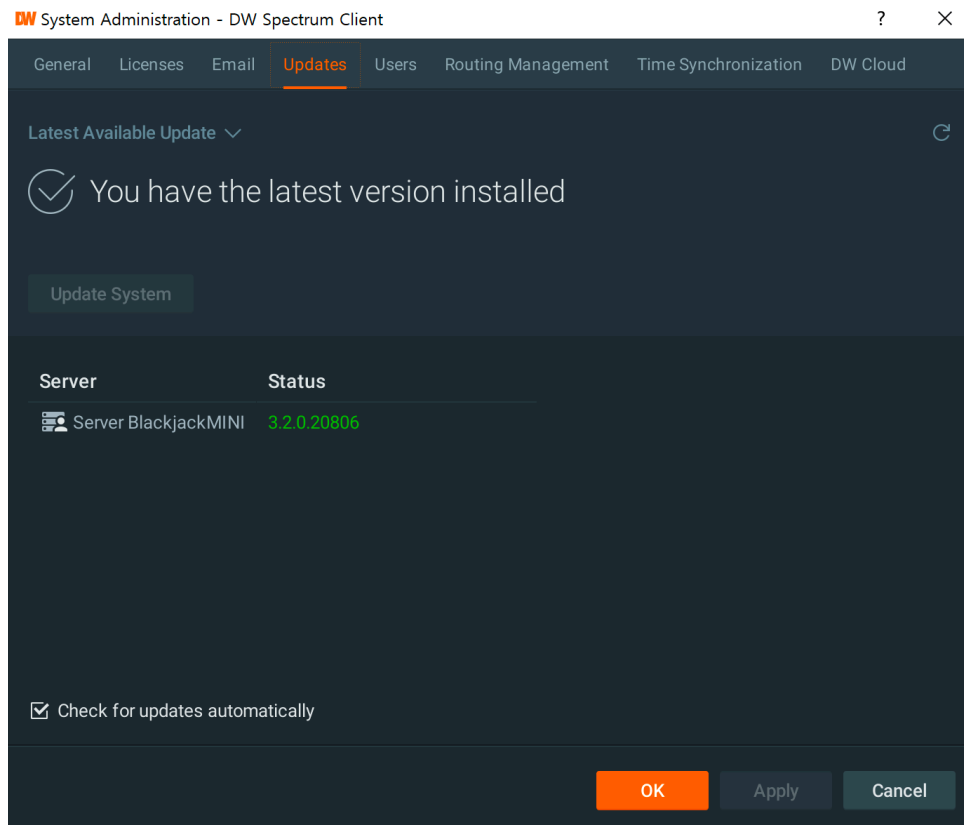


## STEP 3: To check for update

1. Click on the menu  then click System Administration from the drop down list.



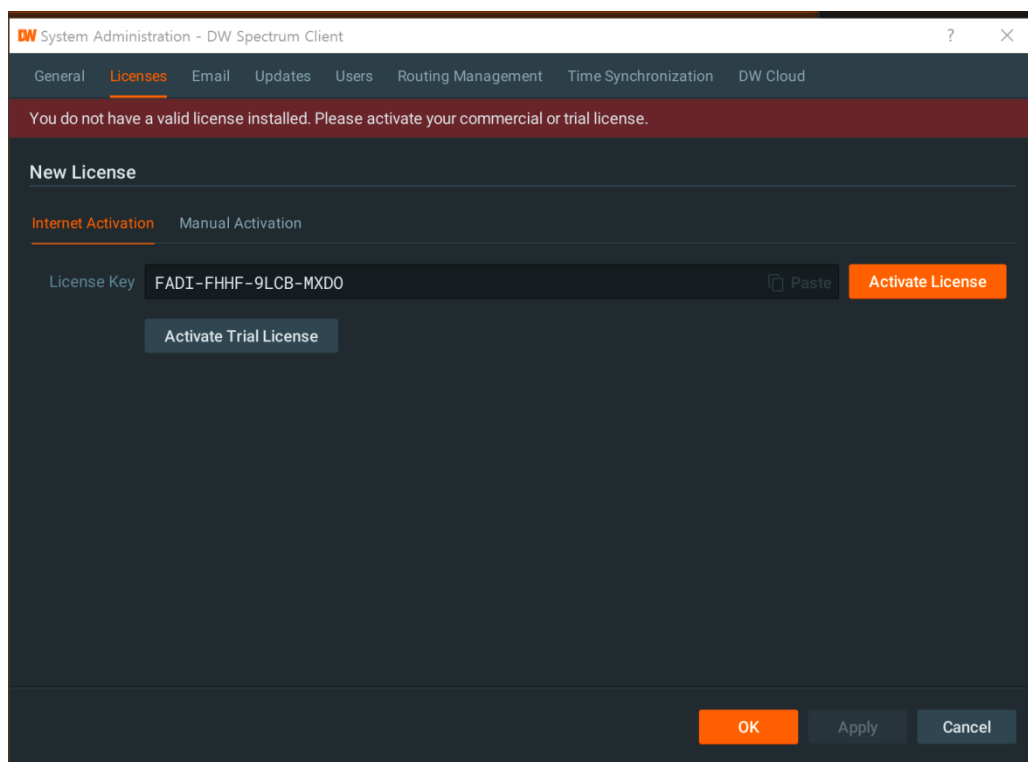
2. Go to Updates tab.



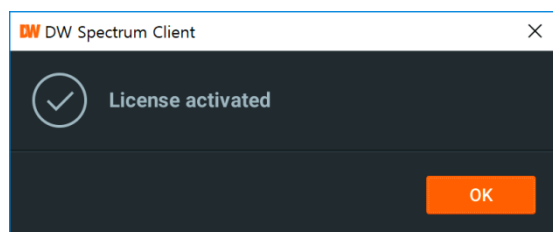
\* If you are on the latest version, it will say “You have the latest version installed” and the Update System button will be greyed out.

## STEP 4: Enter License

1. Go to System Administration then click License tab.
  2. Enter License Key then click Activate License button. (Internet connection required)
- \* Click on Activate Trial License if you have not purchased the valid license.



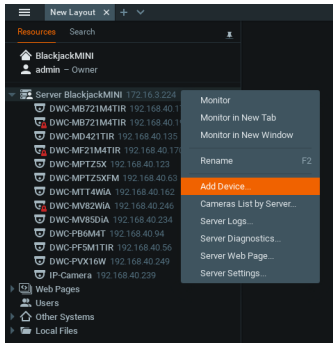
3. Click OK to when the License is activated.



## STEP 5: Configure recording

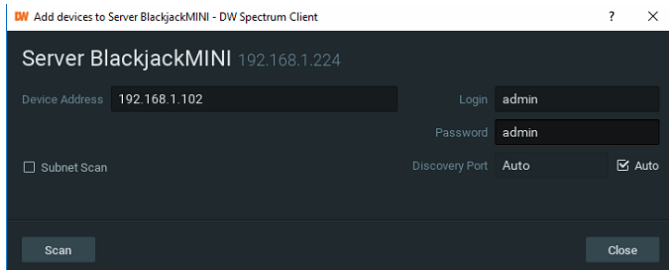
\* Cameras will be automatically populated under the server's resource tree if the cameras and the server's IP addresses are properly configured. If the cameras are not listed, then follow steps a thru e to add cameras manually.

a. Right click on the server then select Add Device from the context menu.

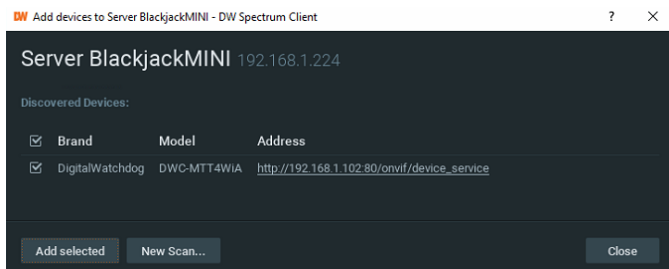


c. Enter the IP address of the camera in the Device Address, enter the camera username in the Login, enter the camera's password in the Password and leave the Discovery Port to Auto.

\* IP address of the cameras can be obtained from DW IP Finder<sup>™</sup>.

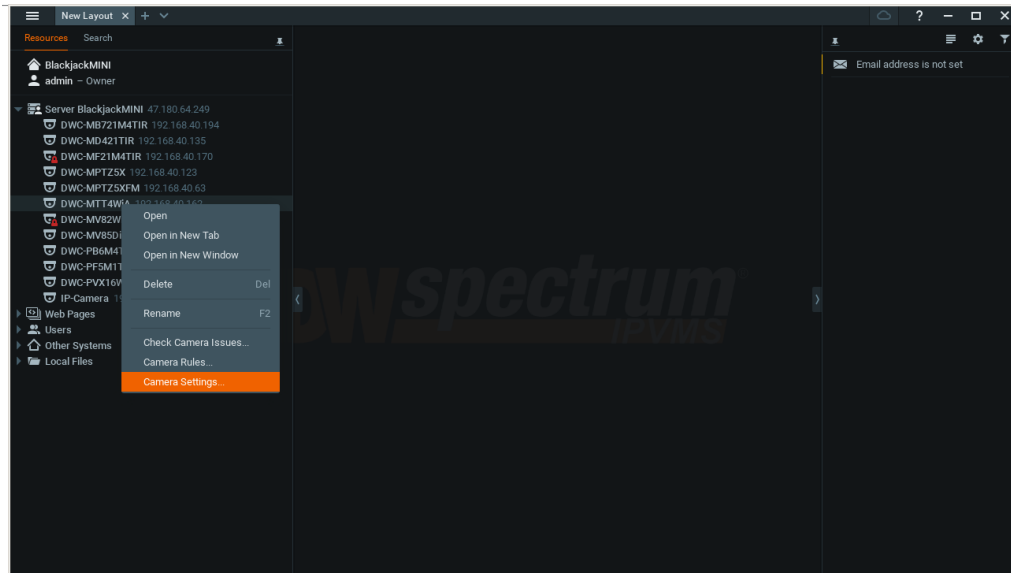


d. When the camera is discovered, click Add Selected.

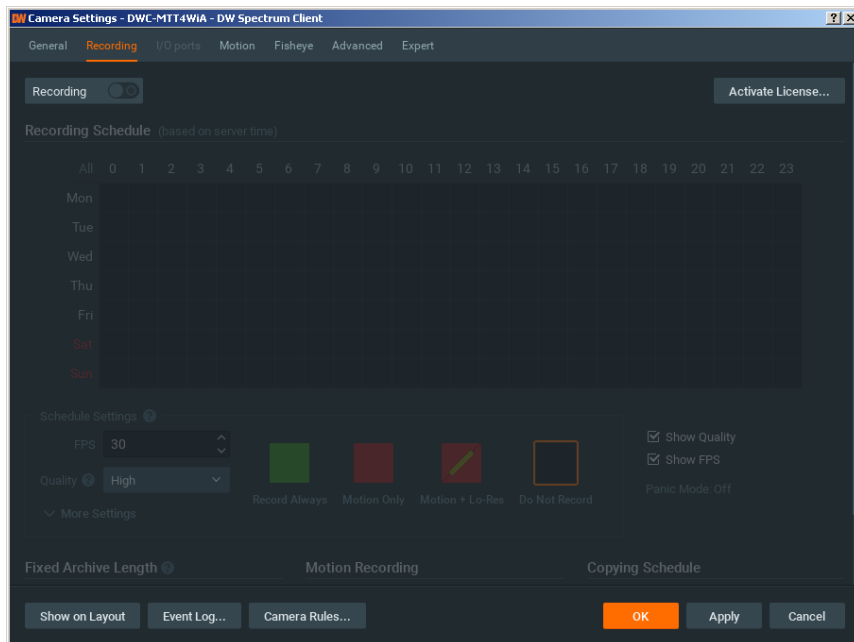


e. Repeat a - d until all the cameras are added.

1. Right click on the camera to setup recording, then click Camera Settings.



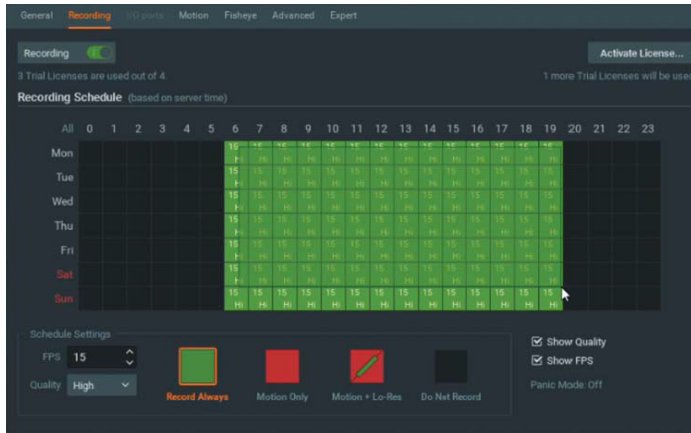
2. Go to Recordings tab.



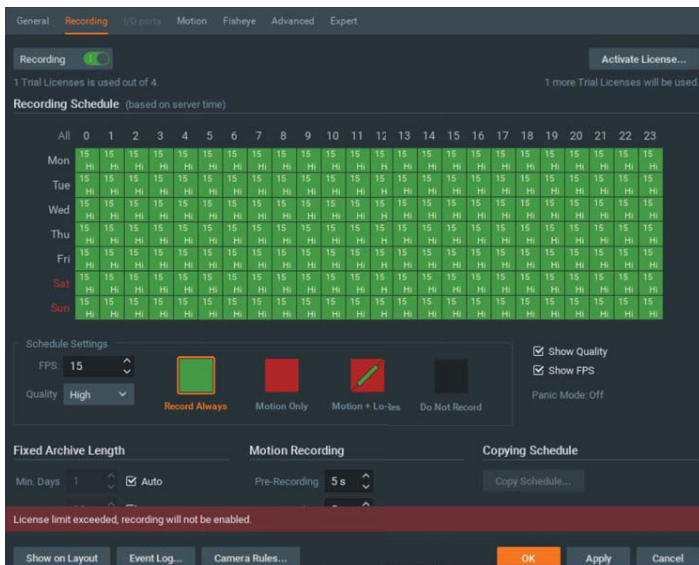
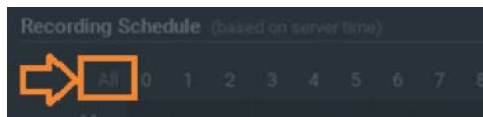
3. Click  to turn on recording. (recording enabled )

4. Configure Schedule Settings for Quality, FPS and Recording Type.

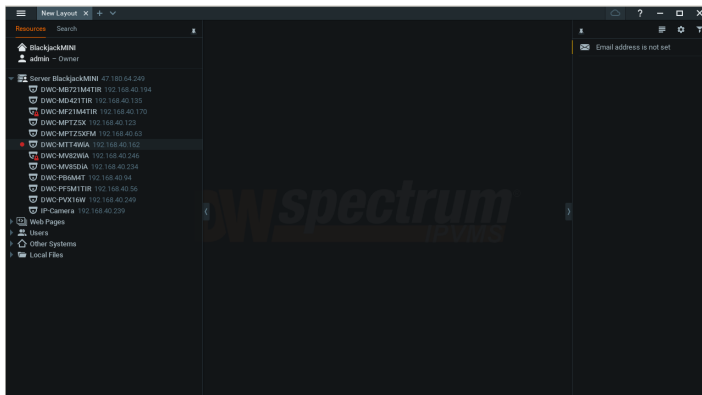
5. Click and drag mouse over the Recording Schedule to assign the recording setting



\* Click on “All” to apply to the all schedules.

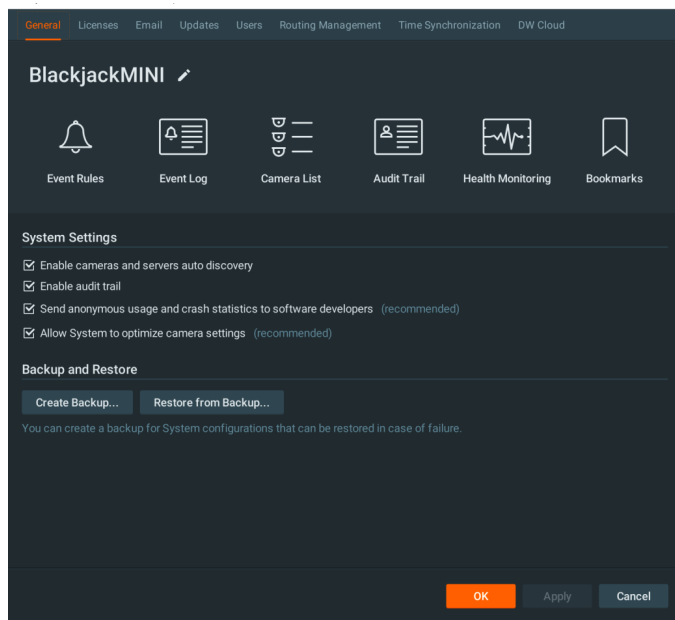


6. A red dot will appear next to the camera when the recording is started.



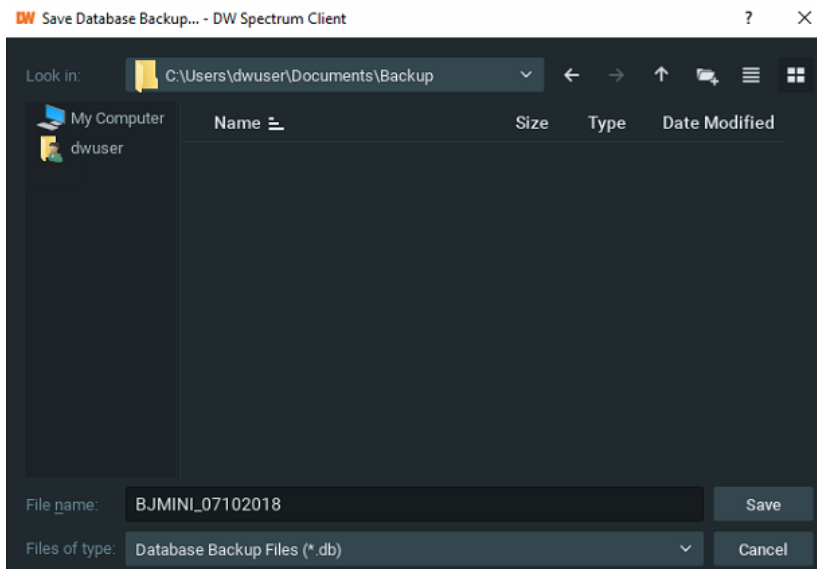
## STEP 6: Backup Database

1. Click on the menu  then click System Administration from the drop down list



2. Click 

3. Navigate to the folder where you want to save and enter name of the backup file then click Save.



- \* Strongly recommended to also backup to the external storage media.



**NOTE:** More information and instructions are available in the DW Spectrum<sup>®</sup> manual.

# TROUBLESHOOTING TIPS

Problem	Possible Solutions
My camera does not auto-discover	<ol style="list-style-type: none"> <li>1. Is the camera in the same LAN network as the Media Server?</li> <li>2. Is your camera compatible with DW Spectrum? (Refer to our website for full list of supported cameras.)</li> <li>3. Is the camera updated to its latest firmware?</li> <li>4. If your camera is integrated with DW Spectrum via ONVIF, make sure ONVIF is enabled on your camera.</li> <li>5. Try adding the camera manually.</li> <li>6. Try rebooting the server after installation. Allow up to 2 minutes for the server to map your network and detect all supported devices.</li> </ol>
Videos are slow	<ol style="list-style-type: none"> <li>1. Are you accessing the same cameras from multiple clients? (LAN &amp; WAN)</li> <li>2. Do you have a Gigabit network? Check your network speed.</li> </ol>
My camera appears disconnected	<ol style="list-style-type: none"> <li>1. Under camera settings, make sure the user name and password are correct.</li> <li>2. Under the camera settings, use the 'Ping' button to make sure the camera is connected to the network properly.</li> <li>3. If you can connect to the camera's web viewer, try rebooting the camera and/or restore it to factory default.</li> <li>4. Make sure your camera is using the latest firmware available.</li> <li>5. Make sure that the camera is connected to the same network as the server.</li> <li>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.</li> <li>7. Make sure your user has permissions to view that specific camera.</li> </ol>
I can't get playback video from my camera	<ol style="list-style-type: none"> <li>1. Do you have network connection between client and server (in case server and client are not on the same machine)?</li> <li>2. Make sure your user has playback viewing permissions for the selected channel.</li> <li>3. Make sure the camera is set to a recording mode that would provide recorded video for the selected time and environment.</li> <li>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.</li> </ol>
I get an 'unauthorized' message on my camera	<ol style="list-style-type: none"> <li>1. Make sure the camera's user name and password are properly entered in the camera's general information under the camera settings menu.</li> <li>2. If necessary, try rebooting the camera to apply the camera's user name and password.</li> </ol>

# SYSTEM REQUIREMENTS

## Recommended Specs for the Full Client

 Windows	Processor	Intel Core i5 or greater	
	Video Card	Intel HD Graphics 2500 (or higher) with 1GB Dedicated Memory Recommend NVIDIA or AMD graphics card with 2GB or more memory	
	Resolution	1920 x 1080	
	RAM	16GB	
	NIC	1Gbps Ethernet	
 Linux OS	OS Supported - Client	Windows	7 Home, 7 Standard, 7 Pro, 7 Ultimate, 8/8.1 Standard, 8/8.1 Pro, 8.1 Enterprise, 10 Home/Pro/Enterprise**
		Windows Servers*	Any versions of 2008, any versions of 2008R2, any versions of Server2012, any versions of Server 2012 R2
		Linux	Ubuntu 14.04, Ubuntu 16.04
		Mac	OSX 10.11, OSX 10.12

\* Except Storage Server version

Important: OS not listed will be not be supported by DW™ Tech Support

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**Fax: (813) 888-9262**



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