DIGITAL WATCHDOG
Complete Surveillance Solutions

A1 SECURITY CAMERAS
The First Name in Security

Blackjack® P-RACK
Servers Powered by DW Spectrum® IPVMS

State of the art hyper-optimized video management platform designed for ease, speed and efficiency.

Blackjack® P-RACK — Up to 64 (1U) and 128 (2U) 2.1MP Cameras (1080p True HD Resolution)

P-RACK-LX			P-RACK		
DW-BJP1U-LX	DW-BJP2U-LX	DW-BJPR2U-LX	DW-BJP1U	DW-BJP2U	DW-BJPR2U

DW-BJP1U-LX
DW-BJP1U

DW-BJP2U-LX
DW-BJP2U
DW-BJPR2U-LX
DW-BJPR2U

Default Login Information for DW Spectrum® IPVMS

Username: **admin**	Password: **admin1234**

WHAT'S IN THE BOX

P-RACK Server		1 Set	Recovery USB		1 Set	Power Cable		1 Set
Quick Start Guide		1 Set	Keyboard and Mouse		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 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 Guides (QSG), software and firmware will appear in the results.
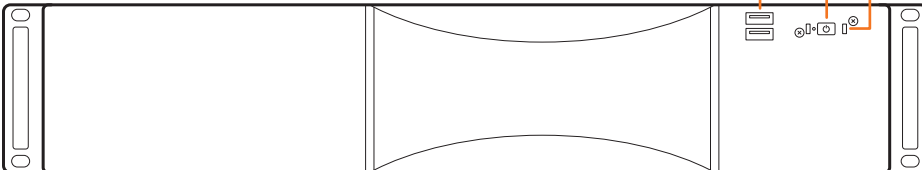
**Attention: This document is intended to serve as a quick reference for initial set-up.
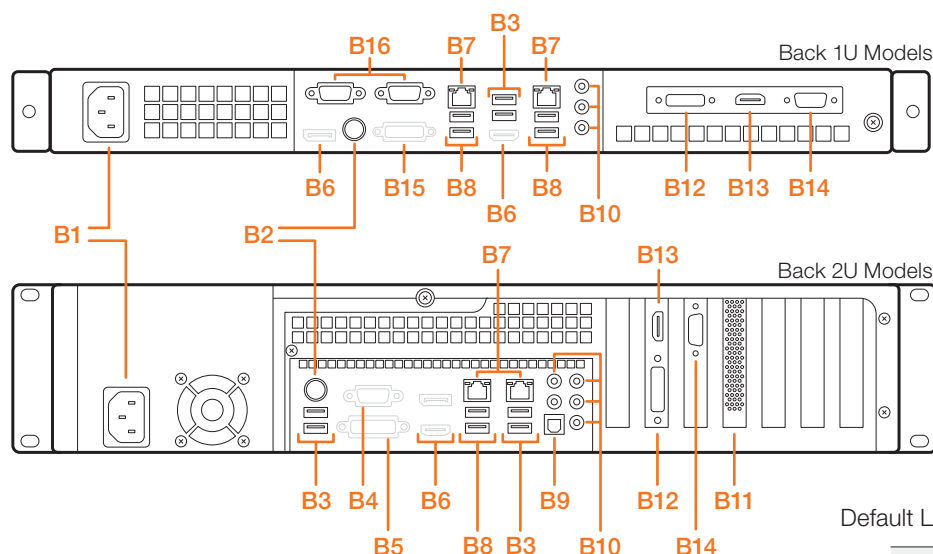See the DW Spectrum full manual for more information on features and functionality.**

Tel: +1 (866) 446-3595 / (813) 888-9555   digital-watchdog.com
Technical Support Hours: 9:00AM – 8:00PM EST, Monday thru Friday
Available from A1 Security Cameras
www.a1securitycameras.com email: sales@a1securitycameras.com

BLACKJACK P-RACK HARDWARE

Front 1U Models

F1 F2 F3

F1	2x USB 2.0 Ports
F2	Power Button
F3	HDD Status LED

Front 2U Models

B16 B7 B3 B7 Back 1U Models

B1 B6 B15 B8 B6 B8 B10 B12 B13 B14
B2

B7 B13 Back 2U Models

B3 B4 B6 B9 B12 B11
B5 B8 B3 B10 B14

B1	Power Output
B2	Keyboard Port (PS2 type)
B3	USB 2.0 Ports
B4	VGA Output (Disabled)
B5	DVI-D Output (Disabled)
B6	True HD Output (Disabled)
B7	Network Ports
B8	USB 3.0 Ports
B9	Optical Digital Audio Output
B10	Audio Ports
B11	RAID* (DW-BPR2U models only)
B12	DVI-I Output
B13	HDMI Output
B14	VGA Output
B15	DVI-I Output (Disabled)
B16	Command Ports

Default Login Information for Pre-Installed DW Spectrum® IPVMS

Username: **admin**	Password: **admin1234**

SPECIFICATIONS P-RACK

MODEL		Blackjack P-RACK 1U	Blackjack P-RACK 2U	Blackjack P-RACK 2U w/RAID
Maximum IP Cameras		64	128	
Included IP Licenses		4	4	
Form Factor		Rack Mount	Rack Mount	
Operating System	Windows® 7 64 Bit	DW-BJP1UXT	DW-BJP2UXT	DW-BJPR2UXXT
	Linux® Ubuntu®	DW-BJP1UXT-LX	DW-BJP2UXT-LX	DW-BJPR2UXXT-LX
	OS on SSD	80GB SSD	80GB SSD	80GB SSD / Option: DW-SSD64 – Spare SSD for Mirroring the OS *
CPU		Intel® i5® Processor / Option: DW-CPUI7 - Upgrade Processor to i7 *	Intel® i7® Processor	
Memory		8GB / Option: DW-RME8 - Upgrade Memory to 16GB *	16GB	
NIC		2x Gigabit Ethernet (RJ45)	2x Gigabit Ethernet (RJ45) / Option: DW-R2NIC - Upgrade DUAL 1GB NIC Card OR DW-R4NIC - Upgrade QUAD 1GB NIC Card *	
System	Max Video Storage Rate (Mbps)	360 Mbps	600 Mbps	
Storage	Maximum Hard Drives	1 x SSD + 3 x HDD	2 x SSD + 6 x HDD	6 x HDD
	Maximum Storage	18TB	36TB	30TB RAID 5
Video-Out	Outputs	True HD Output or VGA or DVI		
	Video Card	GeForce 210 512MB / Option: DW-RV4H - 4 head HD Video Card *		
	Resolution	HD 1080p		
Pre-Loaded VMS Software		DW Spectrum® IPVMS		
Unlimited Remote Clients		Cross Platform - Windows®, Linux® and Mac®		
Mobile Apps		iOS® and Android®		
Keyboard & Mouse		Included		
Railkit		Included		
Power		300W **	400W **	
Operating Temperature and Humidity		41°F-104°F / 20-90% RH		
Dimension (WxDxH) (inches)		17.25" x 26.5" x 1.75"	17.32" x 26" x 3.5"	17.32" x 26" x 19"
Warranty		5 Year Limited		

* Available at time of initial order only / ** UPS Recommended

SETTING UP THE P-RACK

STEP 1: When setting up the Blackjack P-RACK, make sure the following are in the box:

- P-RACK Server
- Quick Start Guide
- OS Recovery USB (Emergency Recovery)
- Power Cable
- Keyboard and USB Mouse

NOTE Monitor is not included.

STEP 2:
1. Connect a monitor, USB mouse, and network cables (not included).
2. Connect the server to an appropriate power supply.
3. In the server's login screen, enter username and password (admin / admin).

STEP 3: **Desktop View**

The server's Network Setup Window and DW Spectrum® software will launch automatically when the server boots up. To relaunch, double click on each of the desktop icons.

Linux OS

LINUX-BASED SOFTWARE MANUAL LAUNCH

To launch the DW Spectrum® Software on the Linux-Based P-RACK:

OPTION 1: Double-click the DW Spectrum® desktop icon.

OR

OPTION 2: Go to the dashboard on the top left side. Search 'DW'. Click the DW icon.
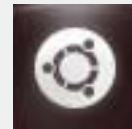
Windows 7

WINDOWS-BASED SOFTWARE MANUAL LAUNCH

To launch the DW Spectrum® Software on the Windows-Based P-RACK:

OPTION 1: Double-click the DW Spectrum® desktop icon.
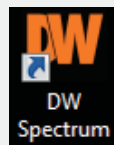
OR

OPTION 2: Go to 'Start' on the bottom left and select DW Spectrum® from the Start Menu.

3

SETTING UP DW SPECTRUM® MEDIA SERVER

Login : admin
Password : admin1234

STEP 1: Initial run from Blackjack® server

1. Open DW Spectrum® Client by double click on the DW Spectrum icon
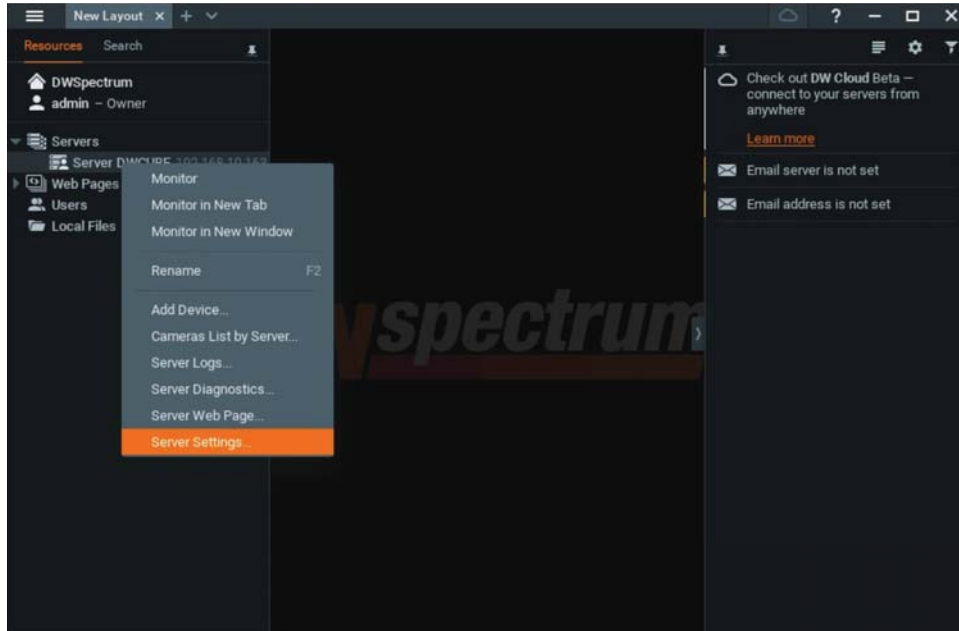
2. Click on the preconfigured server.
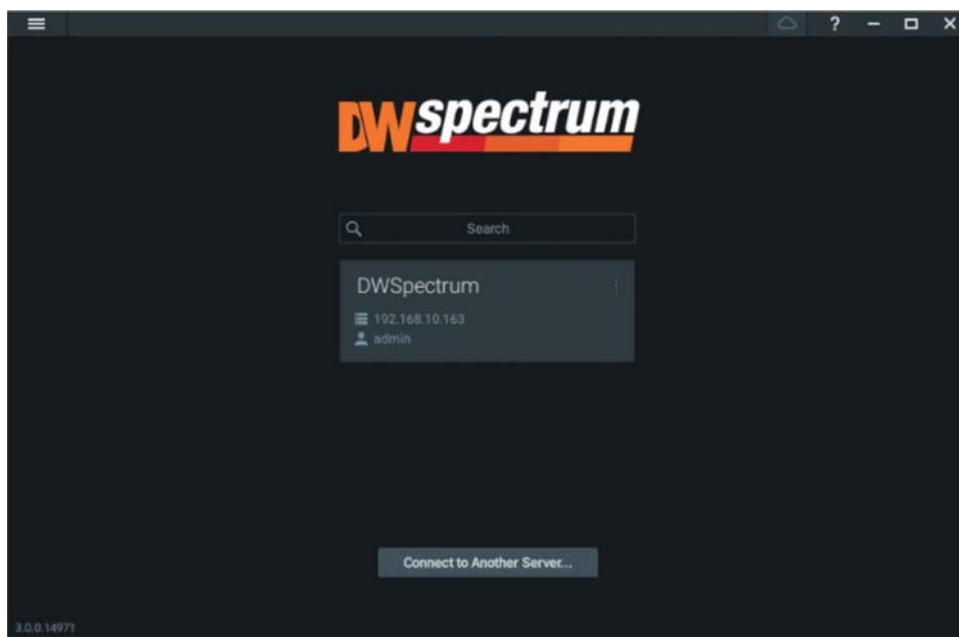
3. Enter password and click connect.
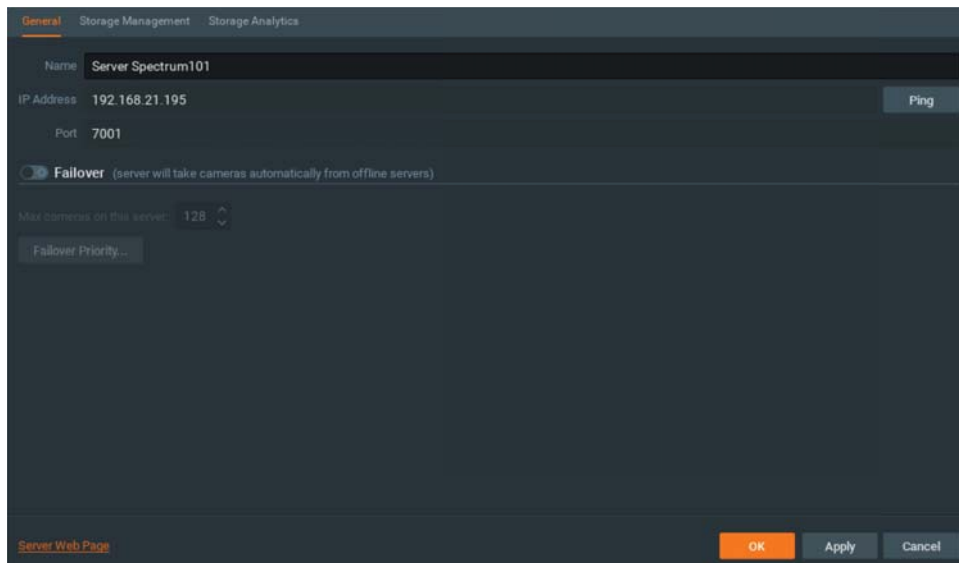   * Default password : **admin1234** (case sensitive)

4
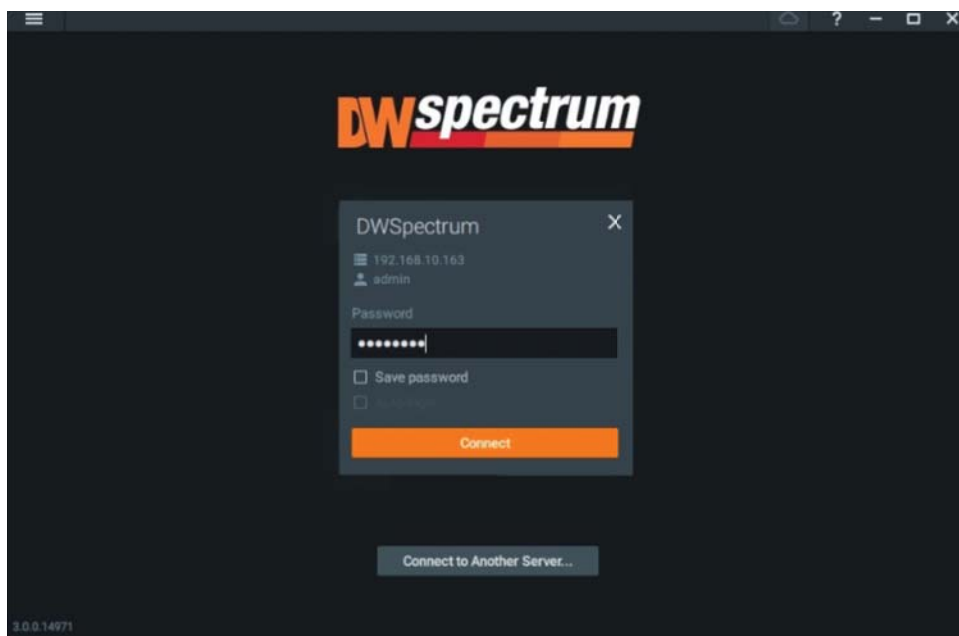
STEP 2: **To rename the server**

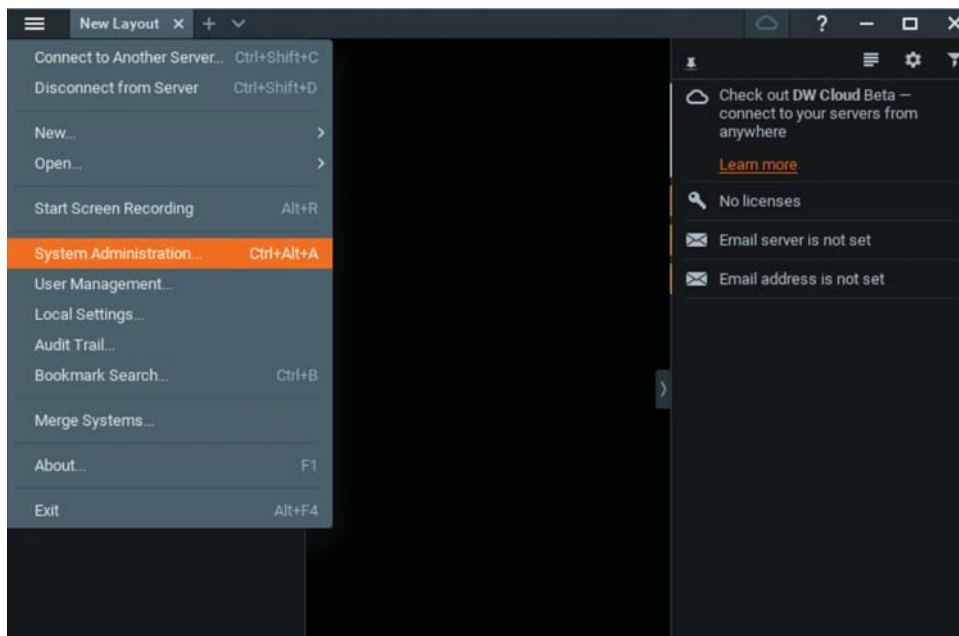1. Right click on the server name listed on the Resources then click Server Settings.

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.

2. Go to Updates tab. Click Update System if turned orange.

Available from A1 Security Cameras
www.a1securitycameras.com email: sales@a1securitycameras.com
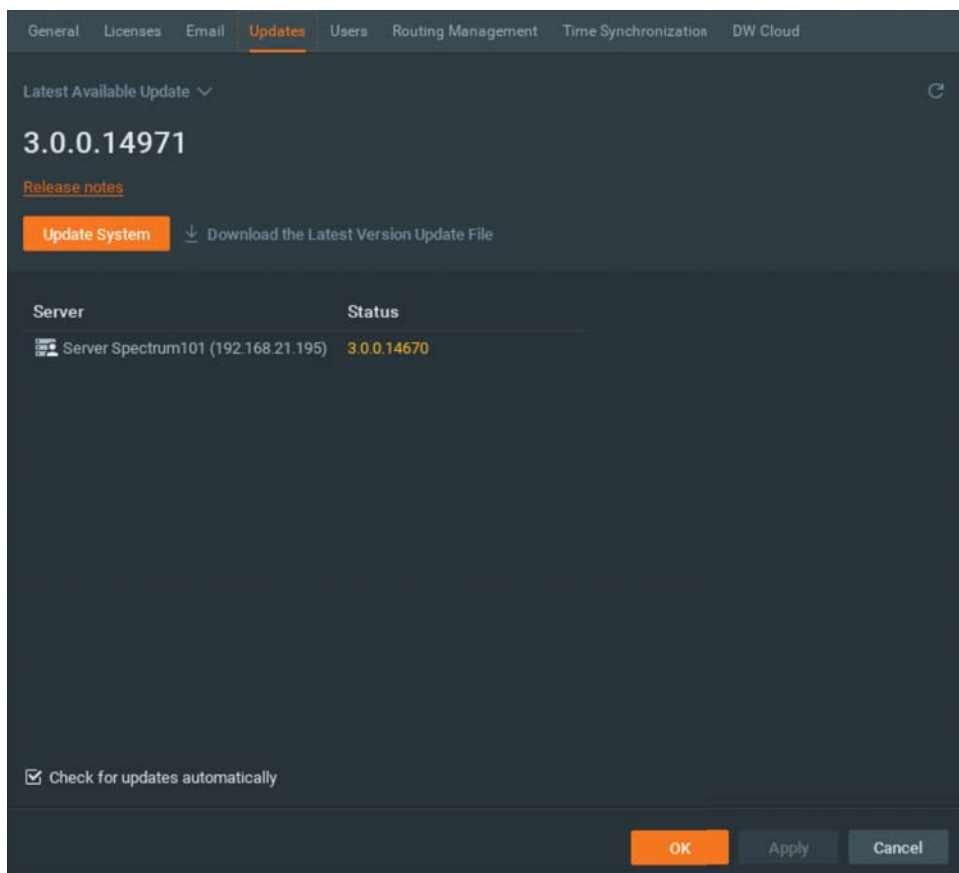
* If you are on the latest version, it will say "You have the latest version installed" and the Update System button will be greyed out.
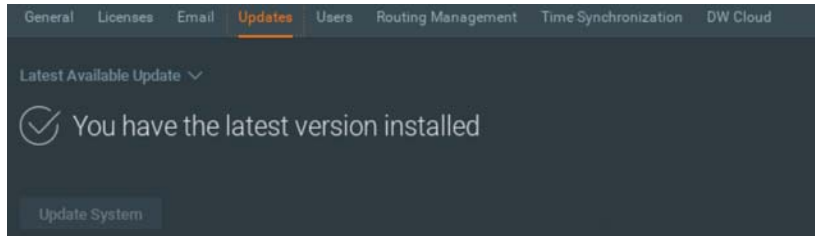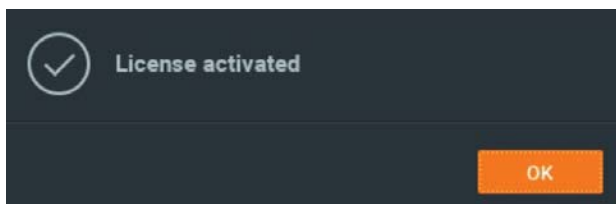

3. Click OK when update is completed.
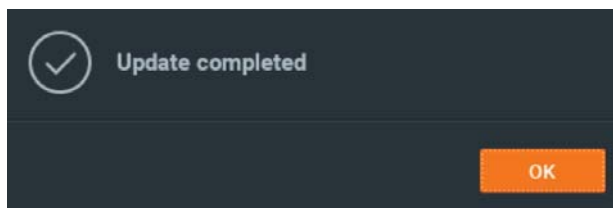
STEP 4: **Enter License**

1. Go to System Administration then click License tab.

2. Enter License Key then click Activate License button. (Internet connection required)
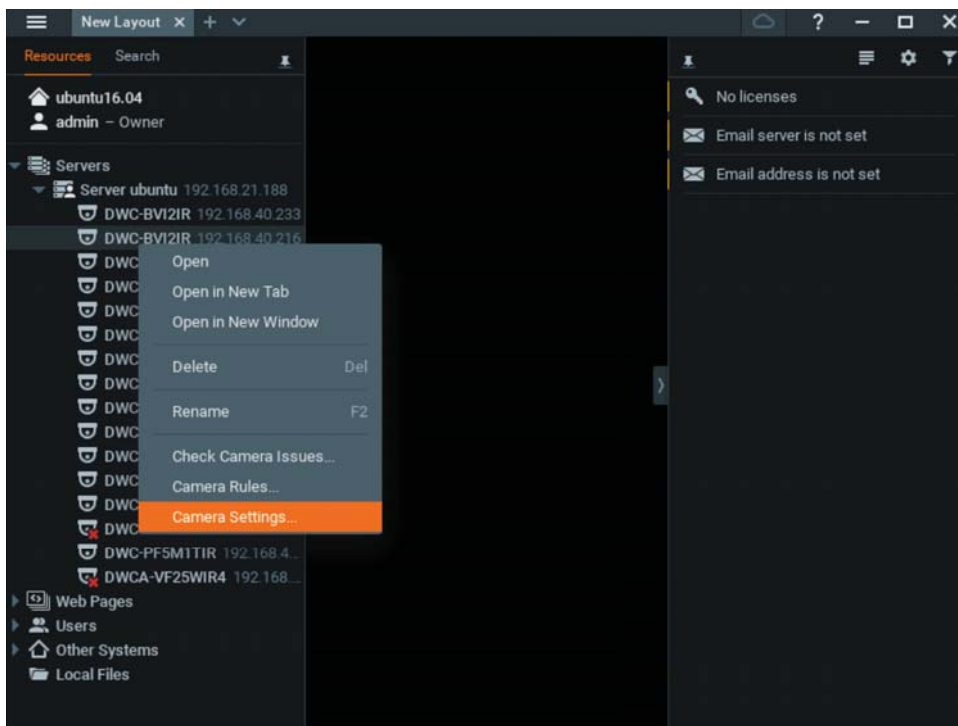   ***** Click on Activate Trial License if you have not purchased the valid license.
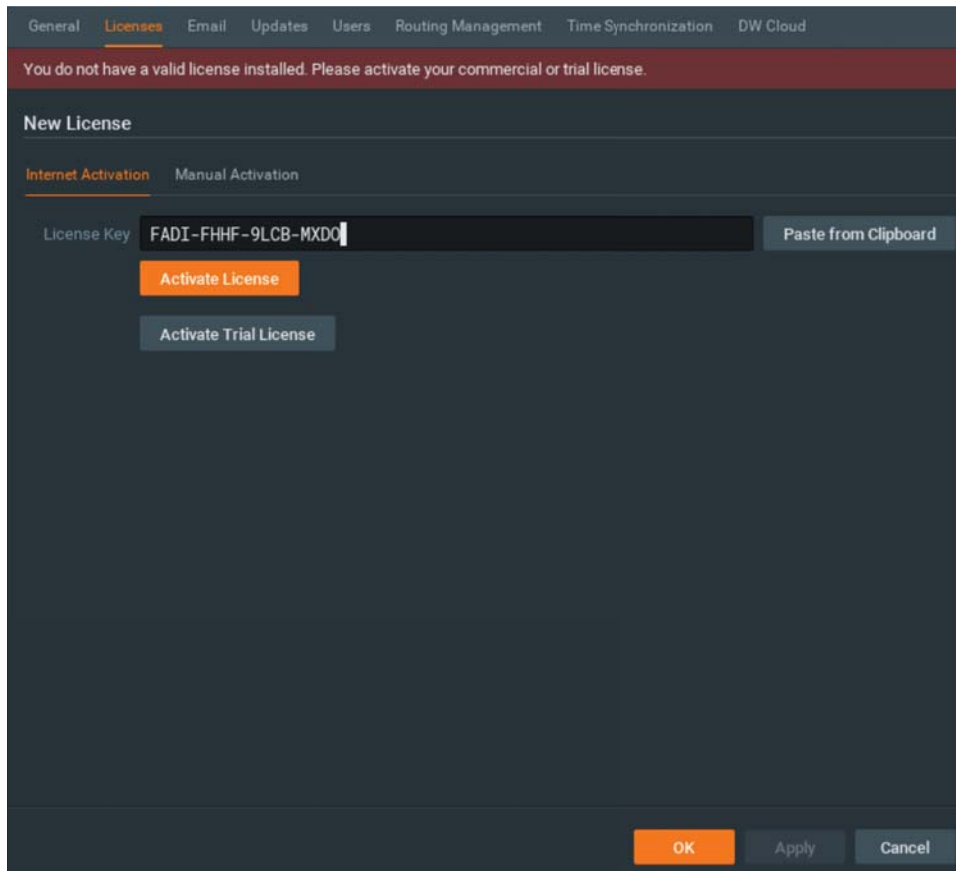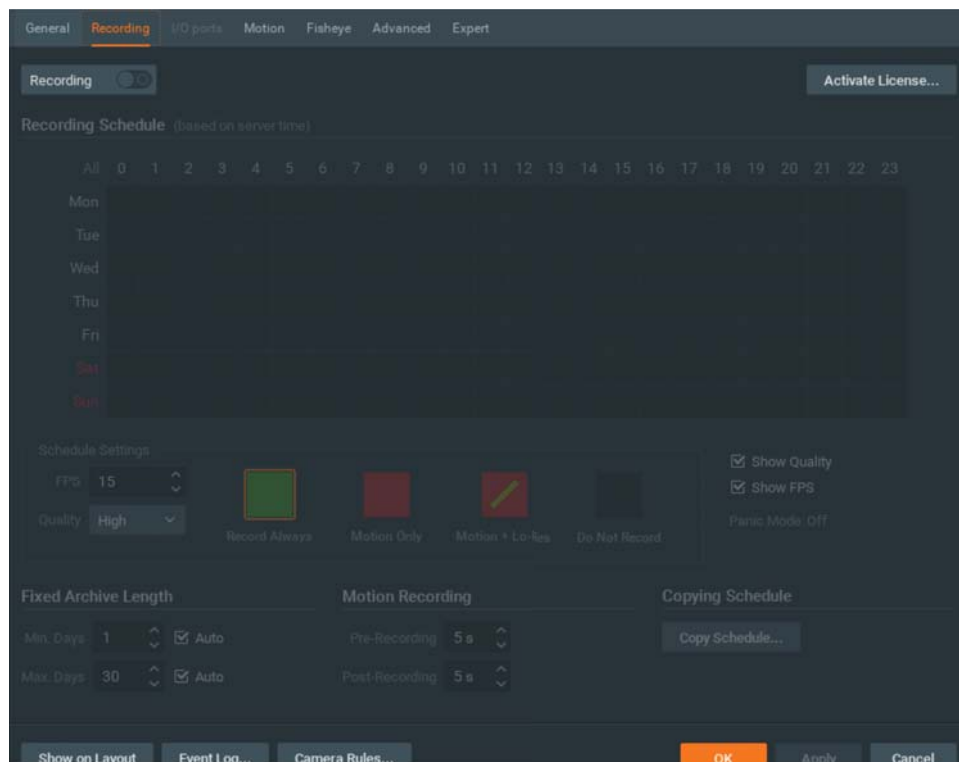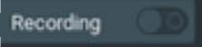
3. Click OK to when the License is activated.

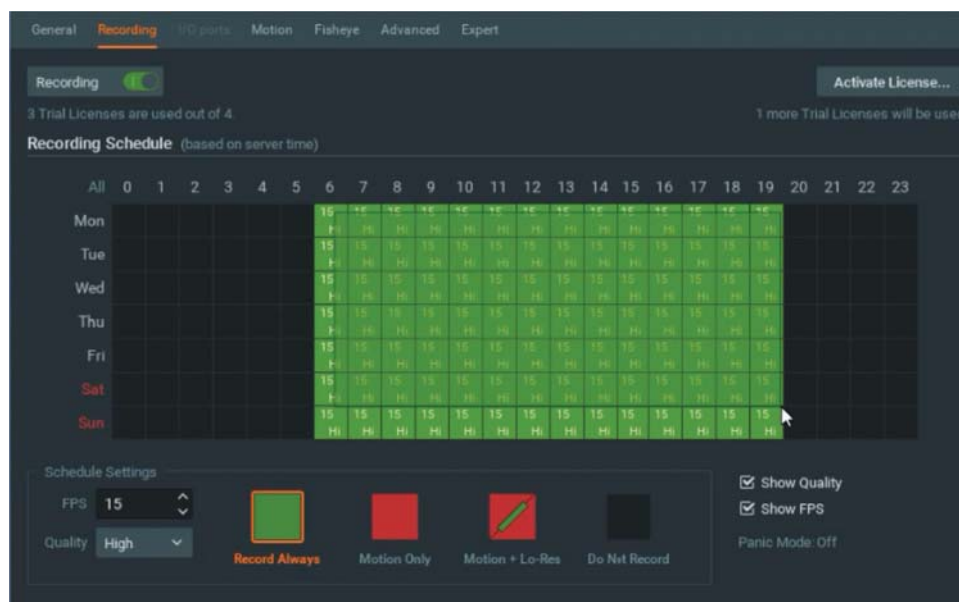**STEP 5:** **Configure recording**

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

2. Go to Recordings tab.

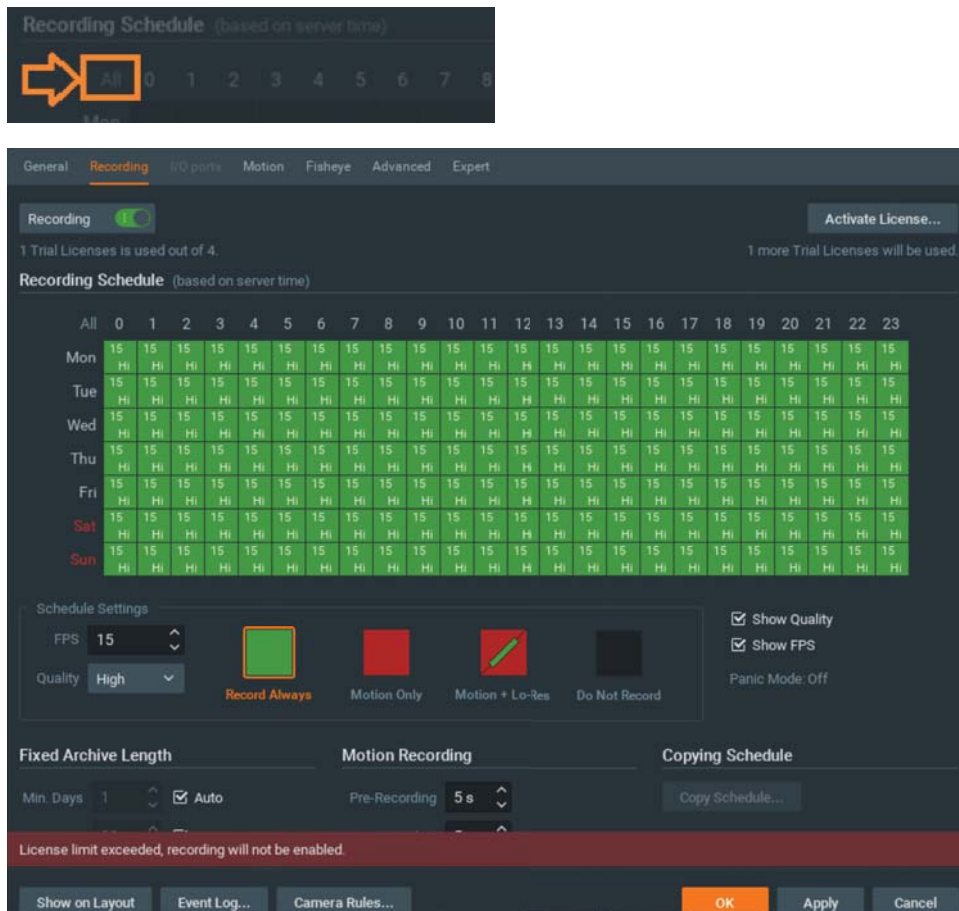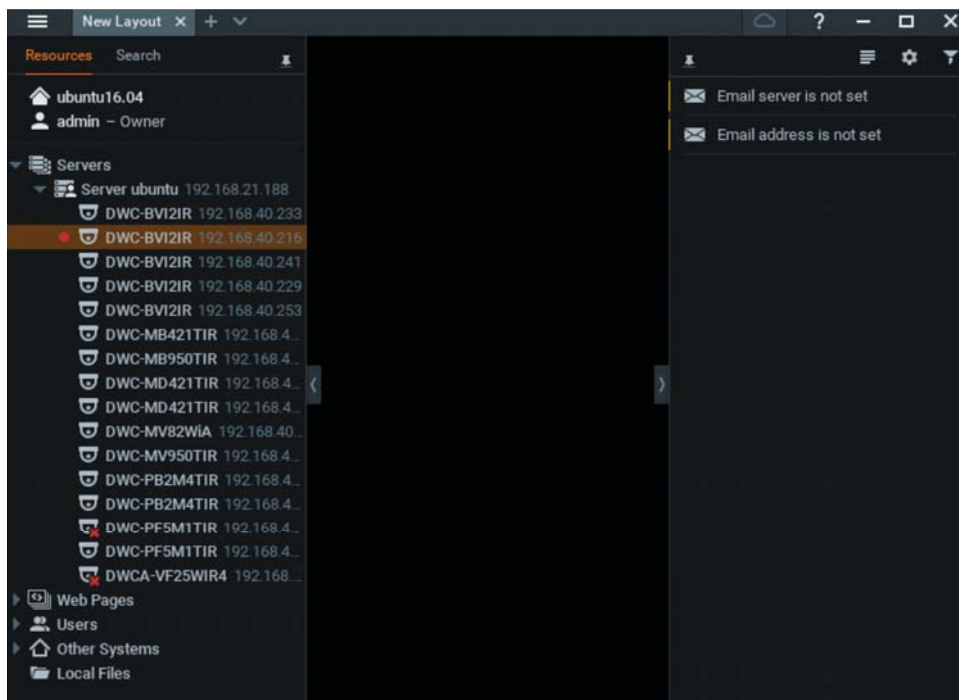3. Click [Recording] to turn on recording.

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

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

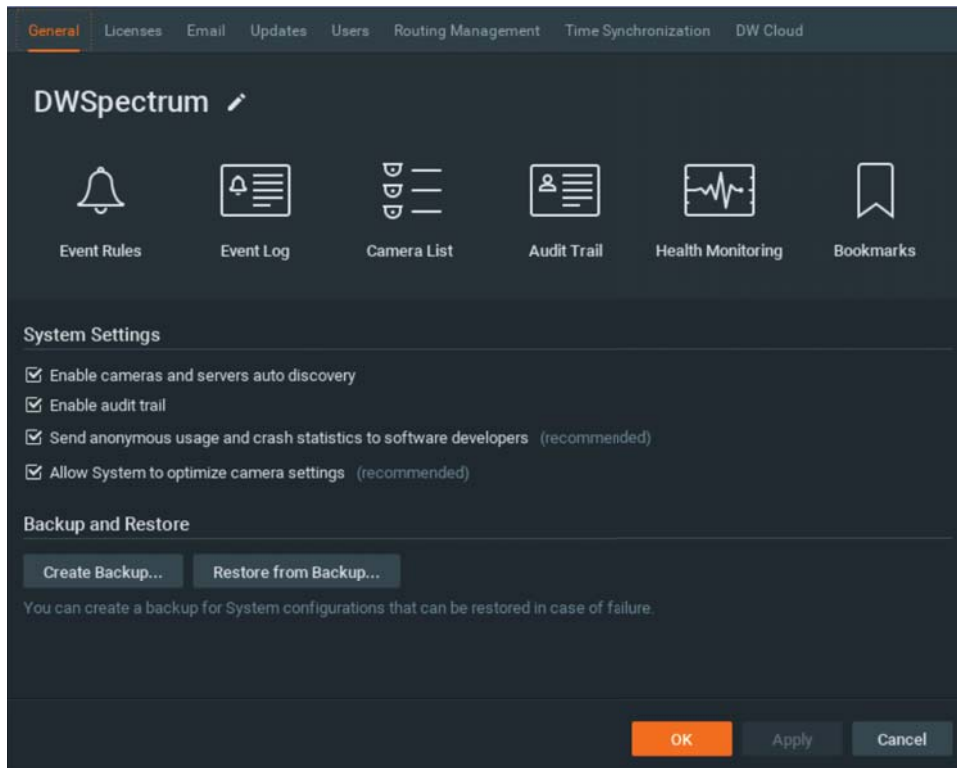***** Click on All to apply to the all schedules.

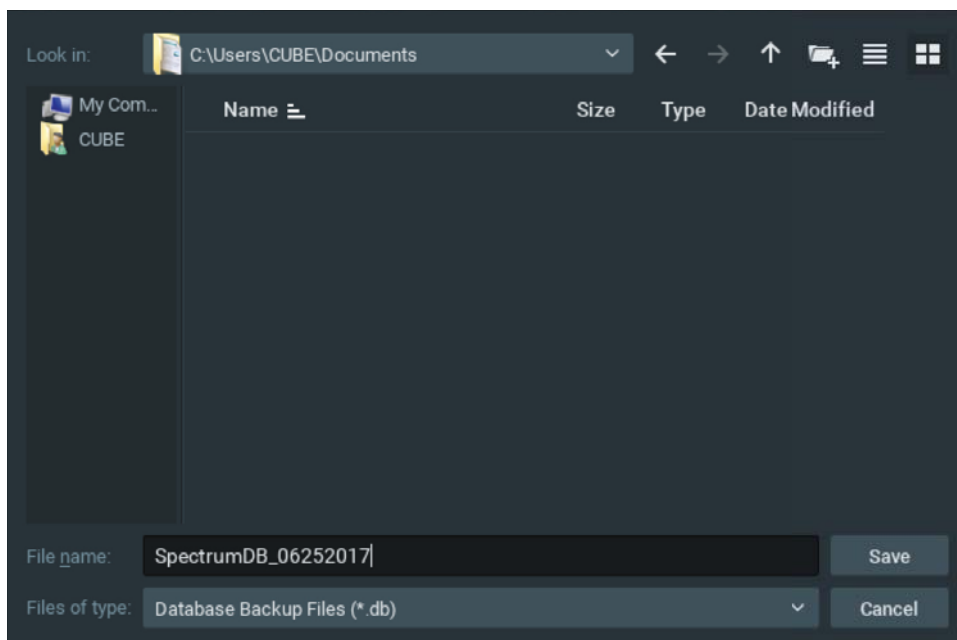**6.** Red dot will appear next to the camera when the recording is started.

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STEP 6:   Backuping Database

1. Go to System Administration and click General tab.

2. Click Create Backup… button.

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

* Strongly recommend to also backup to the external storage media.

Problem	Possible Solutions
My camera does not auto-discover	1. Is the camera in the same LAN network as the Media Server? 2. Is your camera 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 is enabled on your camera. 5. Try adding the camera manually. 6. Try rebooting the server after installation. Allow up to 2 minutes for the server to 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 disconnected	1. Under camera settings, make sure the user name and password are correct. 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. 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.
I 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)? 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.

SYSTEM REQUIREMENTS

Recommended Specs for the Full Client

Windows 7

Linux OS

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 Supported – Media Server	Windows	7 Standard, 7 Pro, 7 Ultimate, 8/8.1 Pro, 8.1 Enterprise, 10 Pro/Enterprise	
	Windows Servers*	Any versions of 2008, any versions of 2008 R2, any versions of Server 2012, any versions of Server 2012 R2	
	Linux	Ubuntu 14.04, Ubuntu 16.04	
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 2008 R2, any versions of Server 2012, any versions of Server 2012 R2	
	Linux	Ubuntu 14.04, Ubuntu 16.04	
	Mac	OSX 10.11, OSX 10.12	

* Except Storage Server version

** For Windows 10, recommend 6th Generation Intel i3/i5/i7 processors with 16GB RAM and video card with 1GB or higher RAM

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

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