Blackjack® **CUBE DL**™

Servers Powered by DW Spectrum™ IPVMS

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

Blackjack® Cube Deluxe — Up to 96 2.1MP Cameras (1080p True HD Resolution) or upto 3 Panzilla® MEGApix® 48MP Cameras -DWC-PZV2M72T

Blackjack Cube-Deluxe

DW-BJCUBE4T-DL	DW-BJCUBE8T-DL	DW-BJCUBE12T-DL	DW-BJCUBE16T-DL	DW-BJCUBE20T-DL

Blackjack Cube-DL

Default Login Information for DW Spectrum® IPVMS

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

WHAT'S IN THE BOX

CUBE Deluxe 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.

BLACKJACK CUBE DELUXE HARDWARE

Front

Back

F1 HDD LED
F2 Power Button / Power LED
F3 5.25" Bay
F4 USB 2.0 Port
F5 Microphone Jack
F6 Headphone Jack
F7 USB 2.0 Port

B1 AC Power Socket
B2 Display Port (Not Used)
B3 HDMI Port (Not Used)
B4 VGA Port (Not Used)
B5 USB 3.0 Ports
B6 USB 2.0 Ports
B7 LAN Port
B8 Clear CMOS Button
B9 PS/2 Port
B10 Line-In Jack
B11 Line-Out Jack
B12 Microphone Jack
B13 **4x** Mini Display Ports
B14 NIC Port (Connect to Camera Network)

Default Login Information for Pre-Installed DW Spectrum® IPVMS

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

WARNING For an optimal system configuration, it is recommended that a UPS (Uninterruptible Power Supply) be used to power the setup. Dual monitors are not recommended due to CPU performance. To connect two monitors to the Cube, go to the display setup to activate the second monitor.

SPECIFICATIONS CUBE DELUXE

PART NUMBER		Blackjack CUBE DELUXE
Maximum IP Cameras		96
Included IP Licenses		4
Form Factor		Desktop
Operating System	Windows® 7 64 Bit	DW-BJCUBExT-DL
	OS on SSD	Yes
CPU		Intel® i7® Processor
Memory		16GB
Ethernet Port		2x Gigabit Ethernet (RJ45)
System	Max Video Storage Rate (Mbps)	480Mbps (3 Panzilla® MEGApix® 48MP Cameras — DWC-PZV2M72T)
Storage	Maximum Hard Drives	1 x SSD + 2 x SATA HDD
	Maximum Storage	20TB
Video-Out	Outputs	4x MiniDisplay Port
	Resolution	HD 1080p
Pre-Loaded VMS Software		DW Specturm® IPVMS
Remote Clients		Cross Platform - Windows®, Linux Ubuntu® and Mac®
Mobile Apps		iOS® and Andriod®
Keyboard & Mouse		Included
Power Supply		300W**
Operating Temperature and Humidity		41°F~104°F / 20~90% RH
Dimension (WxDxH) (inches)		8.5" x 13" x 7.5"
Warranty		5 Year Limited

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

SETTING UP THE CUBE DELUXE

STEP 1: When setting up the Blackjack Cube Deluxe, make sure the following are in the box:

- Cube Server
- Recovery USB
- Keyboard and Mouse

- Quick Start Guide
- Power Cable

> **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.

WINDOWS-BASED SOFTWARE MANUAL LAUNCH

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

Windows 7

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.

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
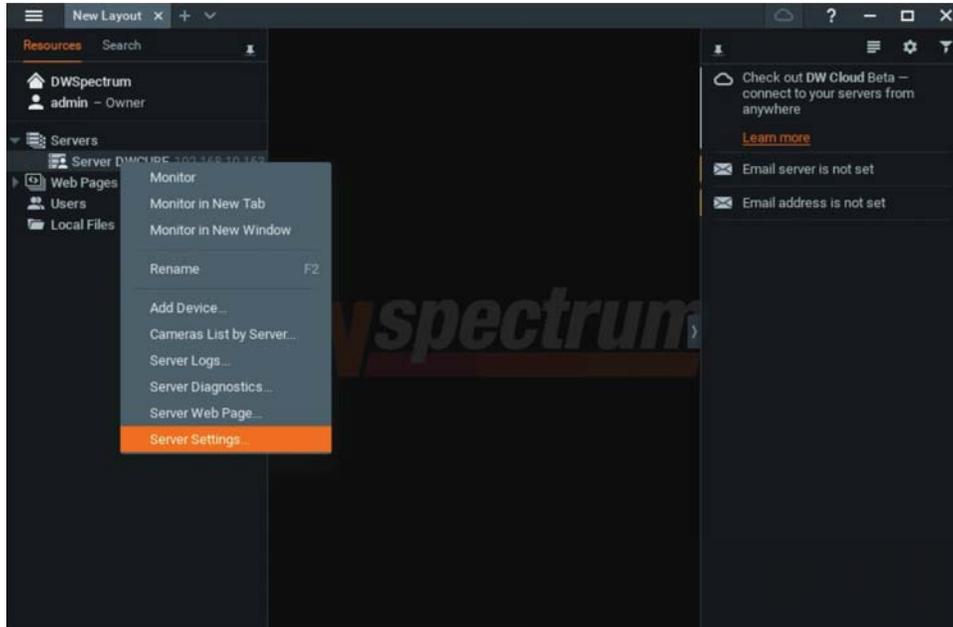2. Click on the preconfigured server.
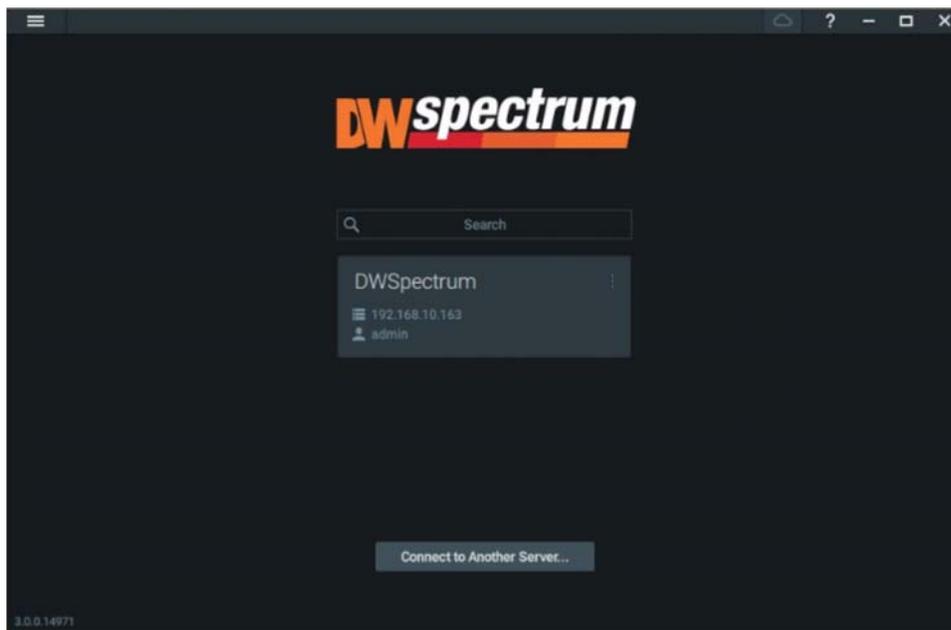
3. Enter password and click connect.
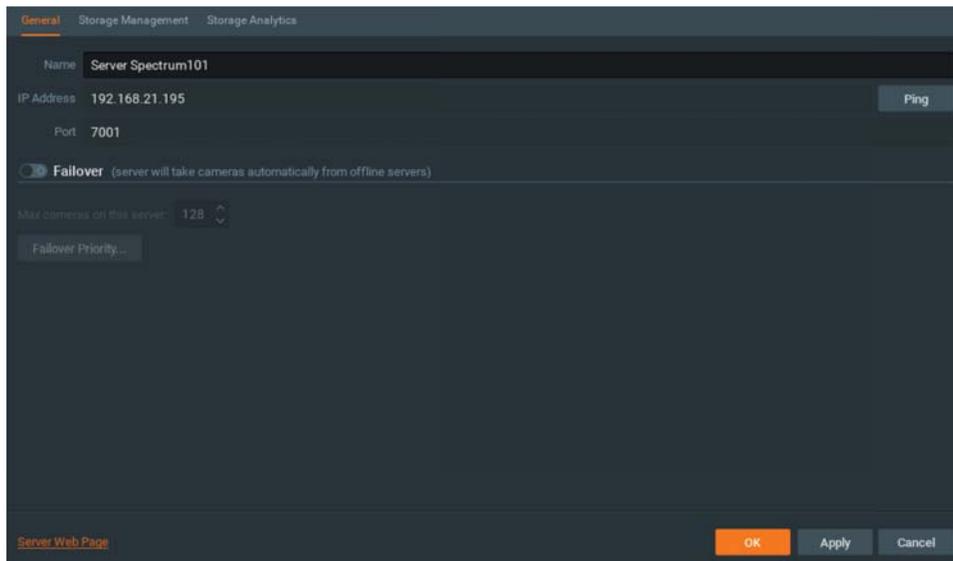   ***** Default password : **admin1234** (case sensitive)
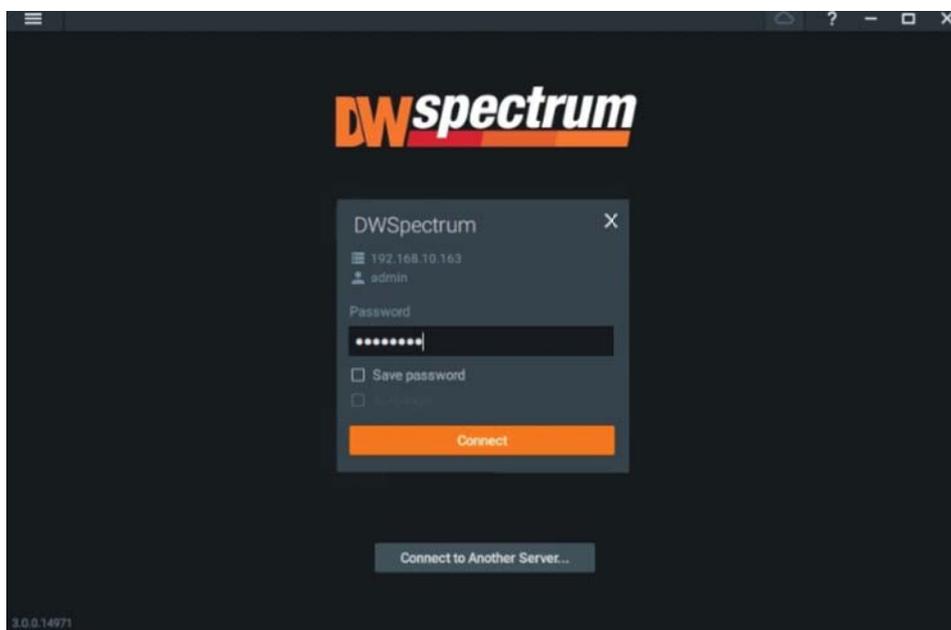
STEP 2: **To rename the server**

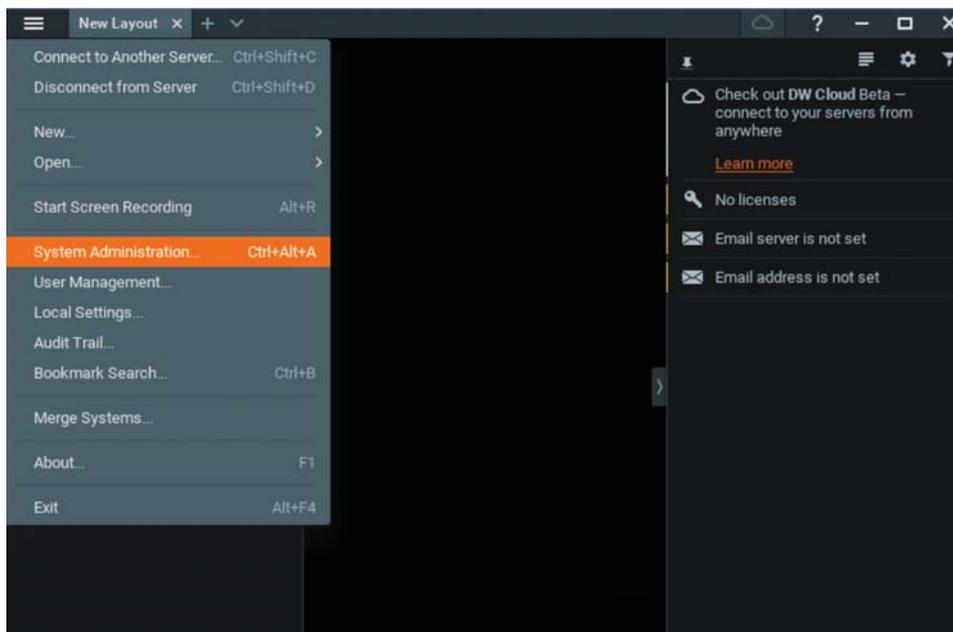1. Right click on the server name listed on the Resources then click Server Settings.

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

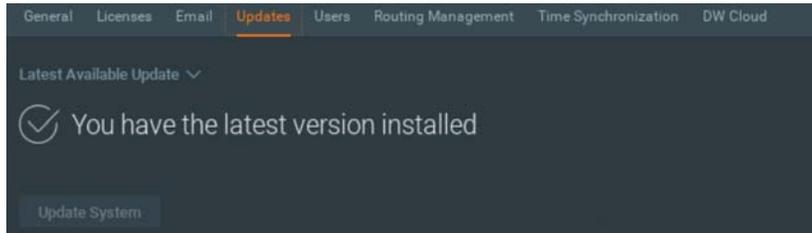**STEP 3:** **To check for update**

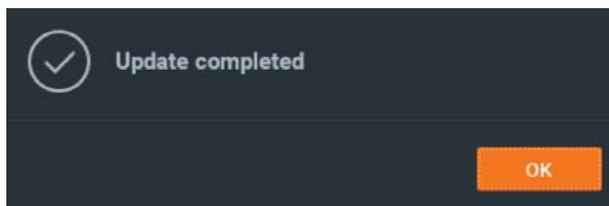1. Click on the menu ☰ then click System Administration.

2. Go to Updates tab. Click Update System if turned orange.
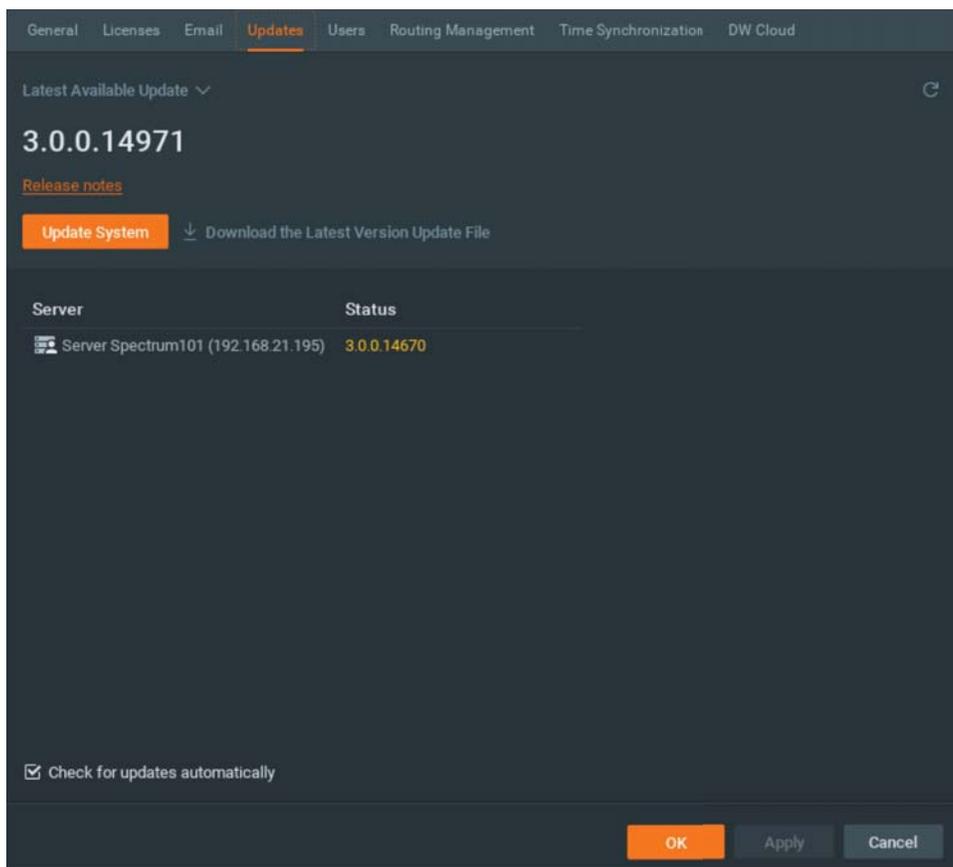
* If you are on the latest version, it will say "You have the latest version installed" and the Update System button will be greyed out.
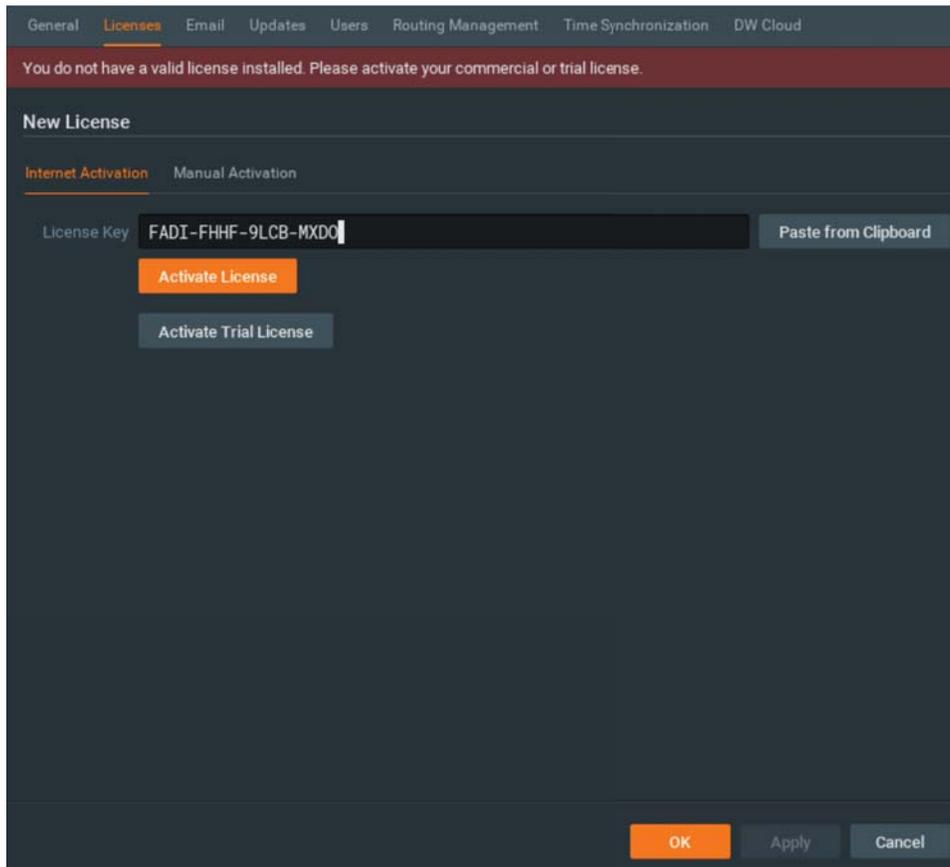

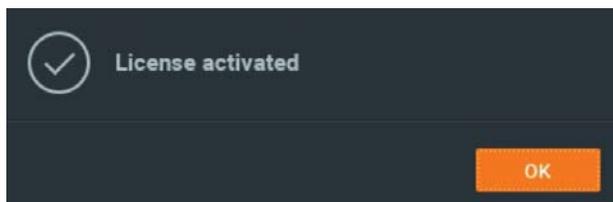3. Click OK when update is completed.

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)
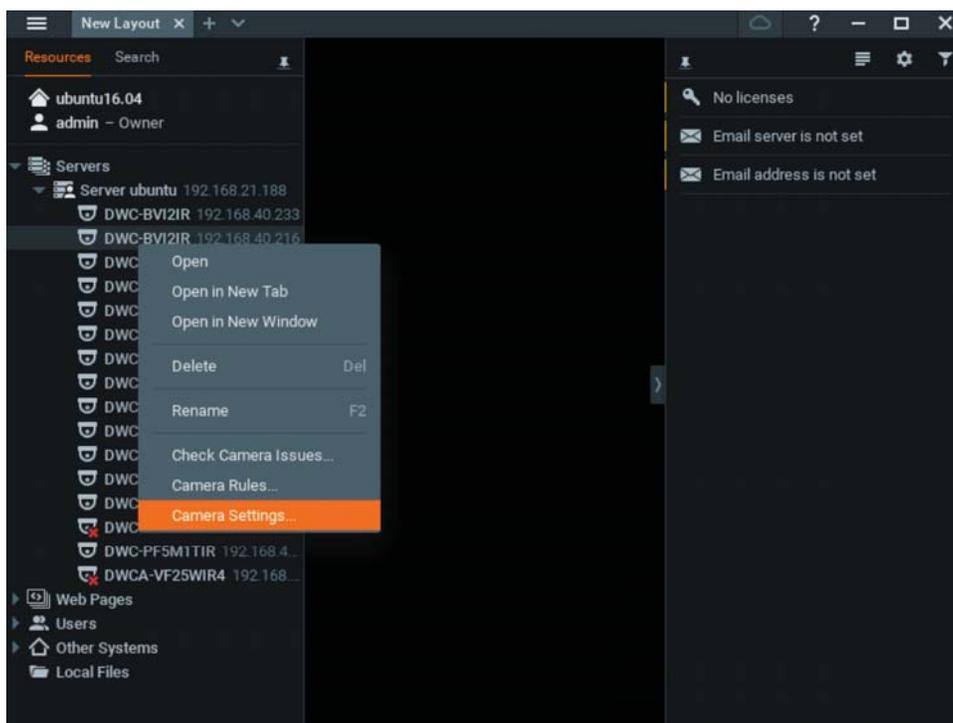   * Click on Activate Trial License if you have not purchased the valid license.
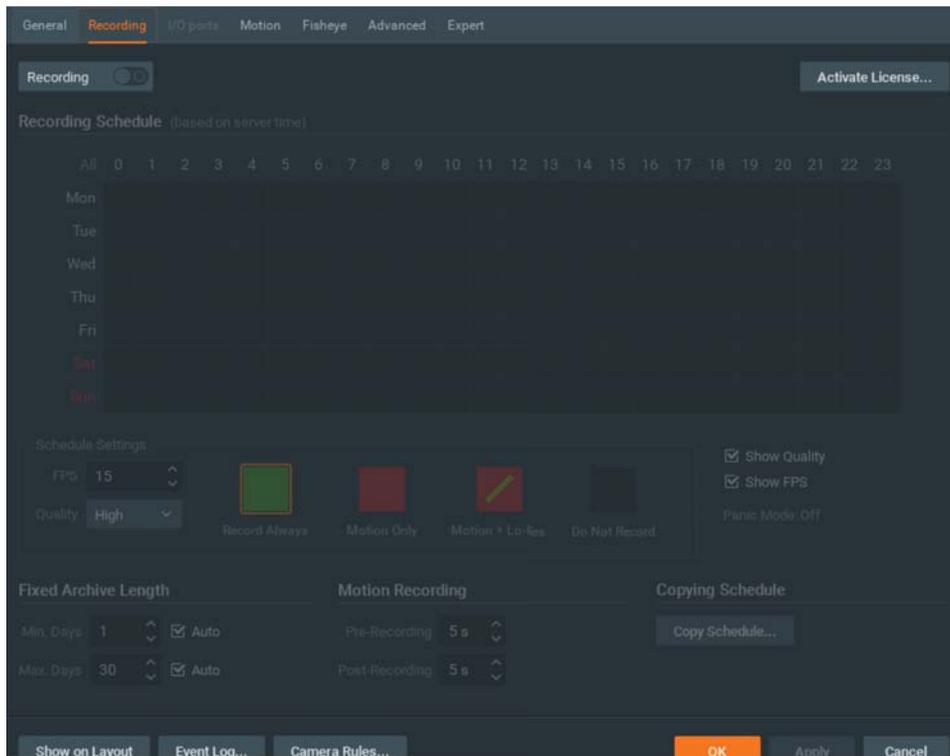
3. Click OK to when the License is activated.
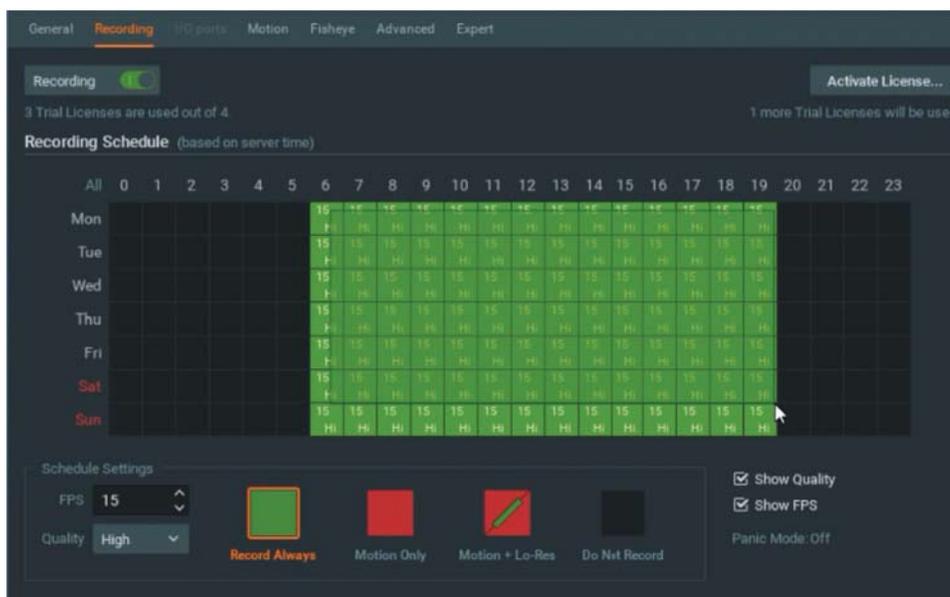

STEP 5:   Configure recording

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

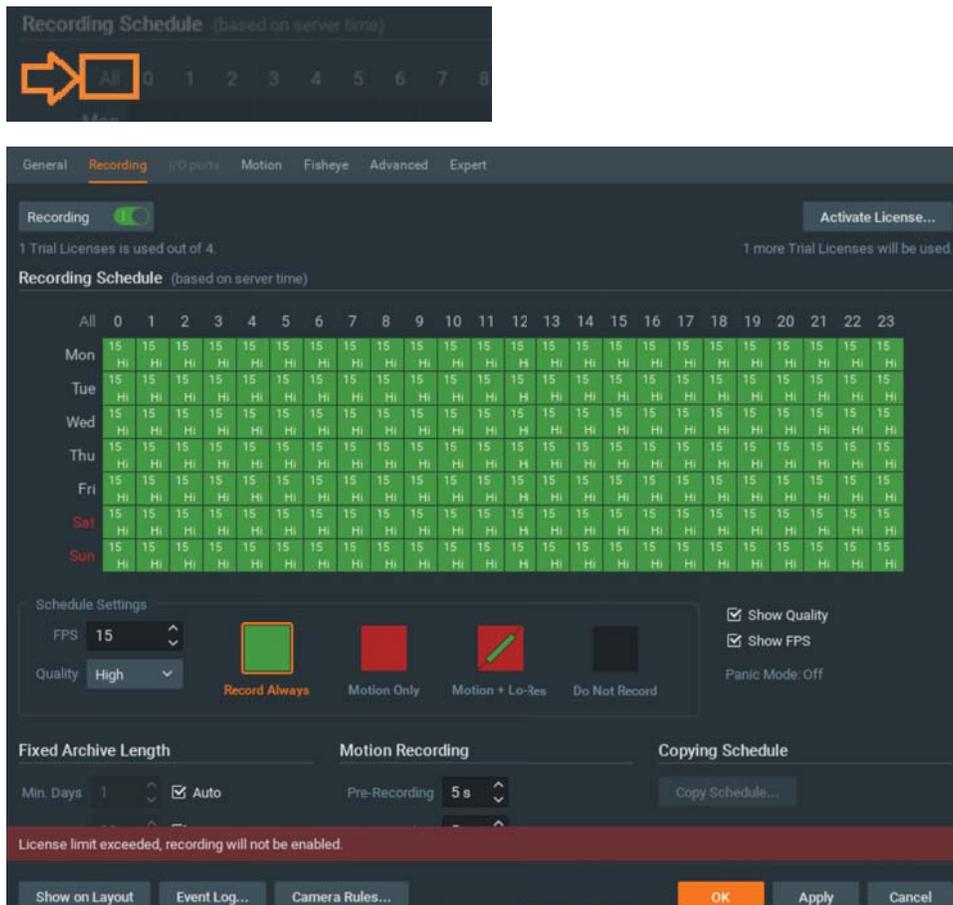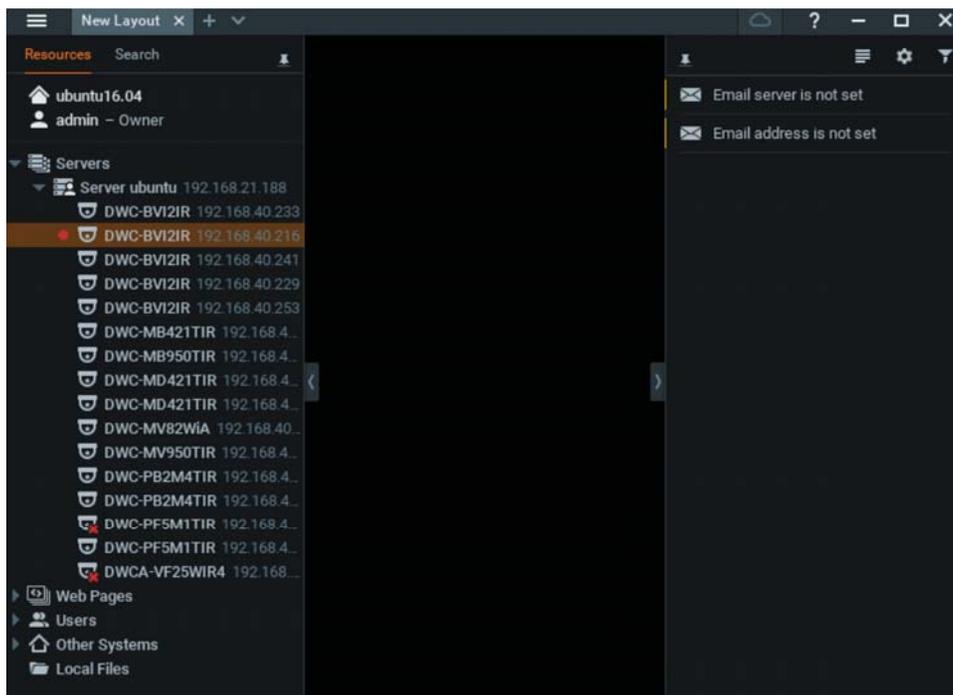**2.** Go to Recordings tab.

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.
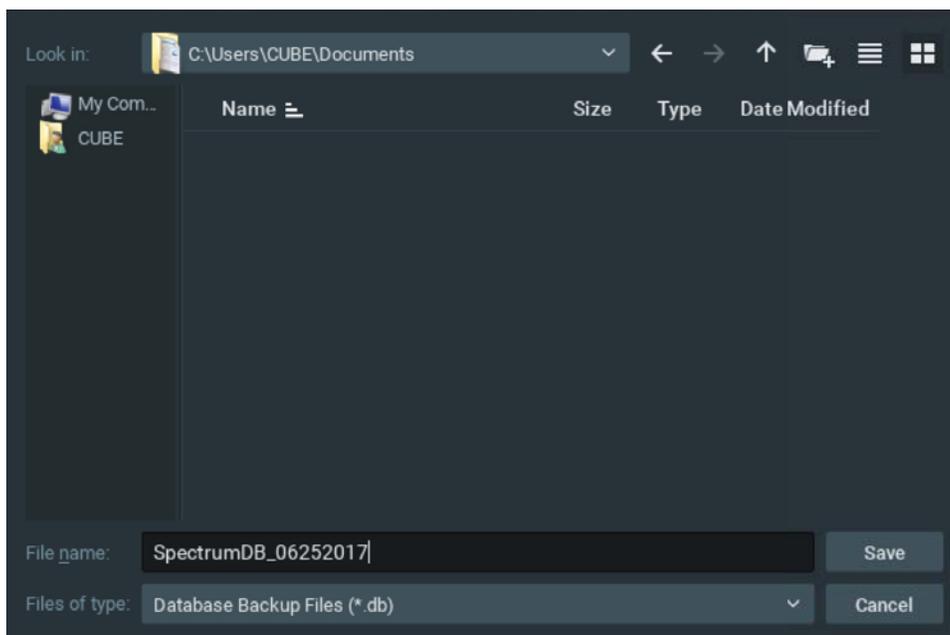
STEP 6:   Backuping Database

1. Go to System Administration and click General tab.
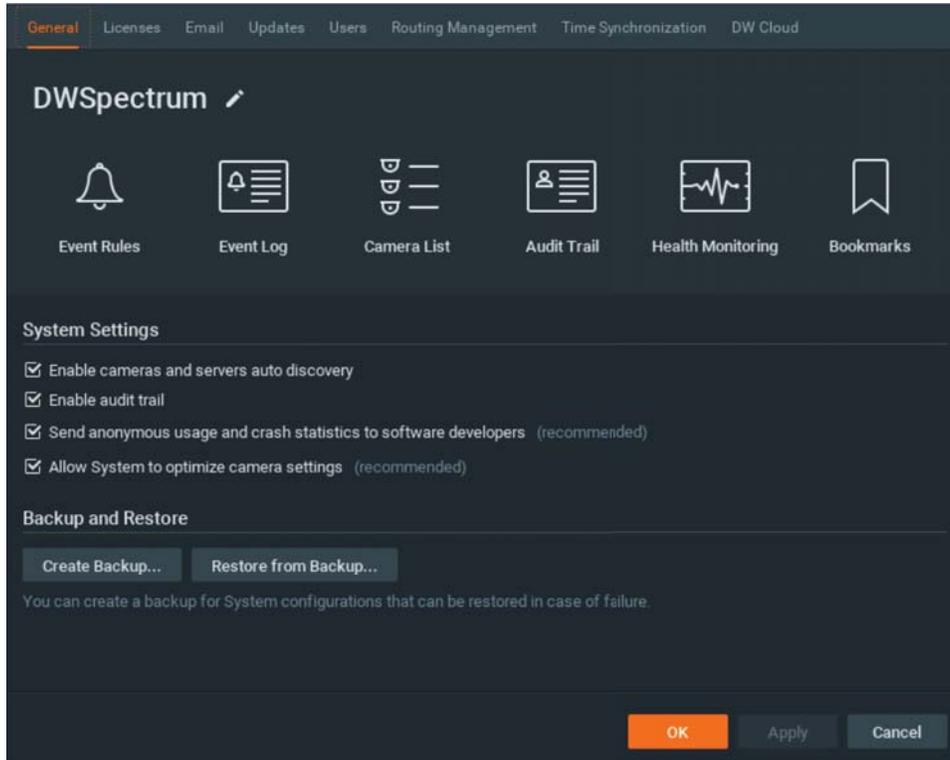
2. Click Create Backup… button.

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.

NOTE: More information and instructions are available in the Spectrum 3.0 Manual.

TROUBLESHOOTING TIPS

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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