

Blackjack® CUBE

Servers Powered by DW Spectrum® IPVMS

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

Blackjack® Cube – Up to 16 (Cube-LX) and 64 (Cube) 2.1MP Cameras (1080p True HD Resolution)

Blackjack Cube-LX

DW-BJCUBE2T-LX	DW-BJCUBE4T-LX	DW-BJCUBE6T-LX	DW-BJCUBE9T-LX	DW-BJCUBE12T-LX	DW-BJCUBE18T-LX
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Blackjack Cube

DW-BJCUBE3T	DW-BJCUBE4T	DW-BJCUBE6T	DW-BJCUBE9T	DW-BJCUBE12T	DW-BJCUBE18T
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Blackjack Cube-LX
Blackjack Cube

Default Login Information for DW Spectrum® IPVMS

Username: admin	Password: admin1234
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WHAT'S IN THE BOX

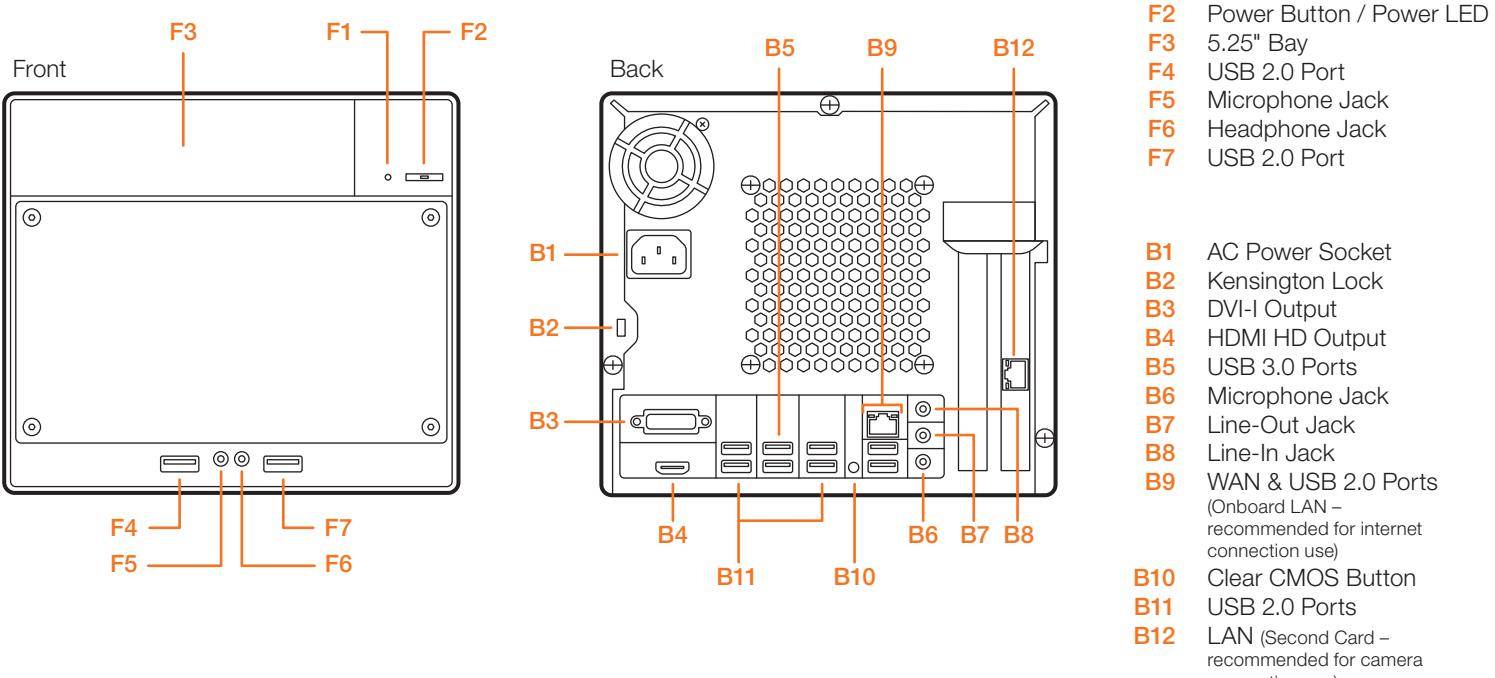
Cube Server		1 Set	Recovery USB		1 Set	Quick Start Guide		1 Set	Power Cable		1 Set
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NOTE: Download All Your Support Materials and Tools in One Place

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 HARDWARE



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

MODEL	Blackjack CUBE-LX	Blackjack CUBE
Maximum IP Cameras	16	64
Included IP Licenses	4	4
Form Factor	Desktop	
Operating System	Windows® 7 64 Bit Linux® Ubuntu®	DW-BJCUBEXT ---
CPU	Intel® i3® Processor	Intel® i5® Processor
Memory	4GB	8GB
NIC	2x Gigabit Ethernet (RJ45) Option: DW-RME8 - Upgrade Memory to 8GB*	2x Gigabit Ethernet (RJ45)
System	Max Video Storage Rate (Mbps)	360 Mbps
Storage	Maximum Hard Drives	3 x HDD
	Maximum Storage	18TB
Video-Out	Outputs	DVI-D or True HD Output
	Video Card	Onboard Intel HD Graphics
	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	
Power	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

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

- Cube Server
- Recovery USB
- Quick Start Guide
- Power Cable

NOTE Monitor, keyboard & mouse are 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

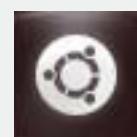
To launch the DW Spectrum® Software on the Linux-Based Cube:

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 Cube:

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.

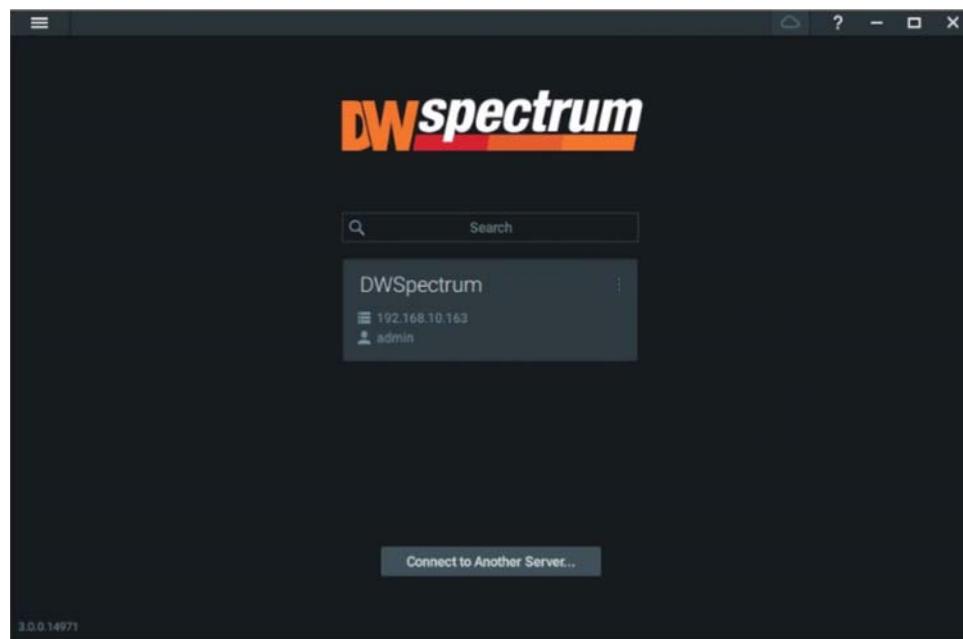


SETTING UP DW SPECTRUM® MEDIA SERVER

Login : admin
Password : admin1234

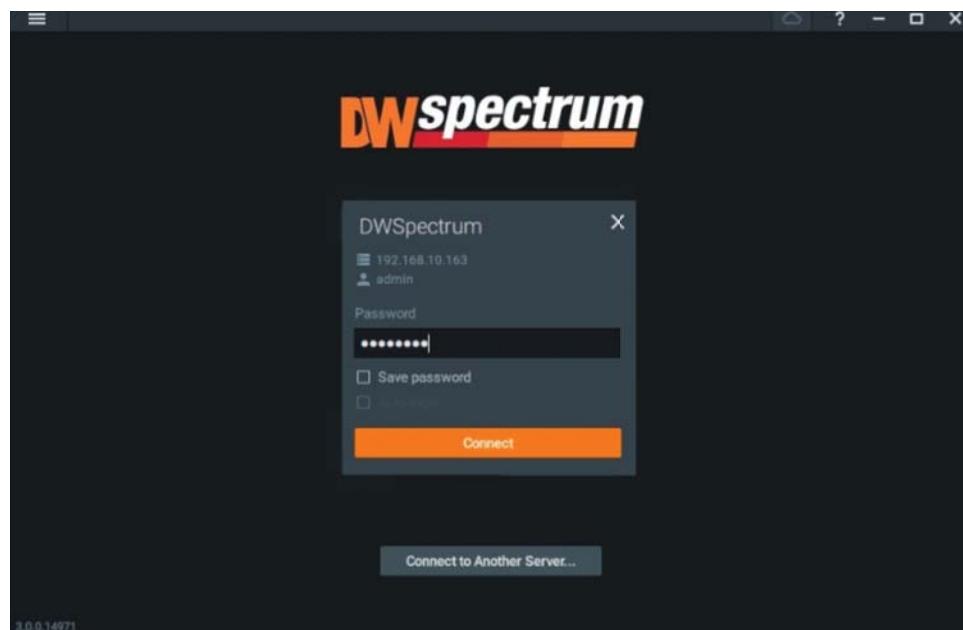
STEP 1: Initial run from Blackjack® server

1. Open DW Spectrum® Client by double click on the DW Spectrum icon
2. Click on the preconfigured server.



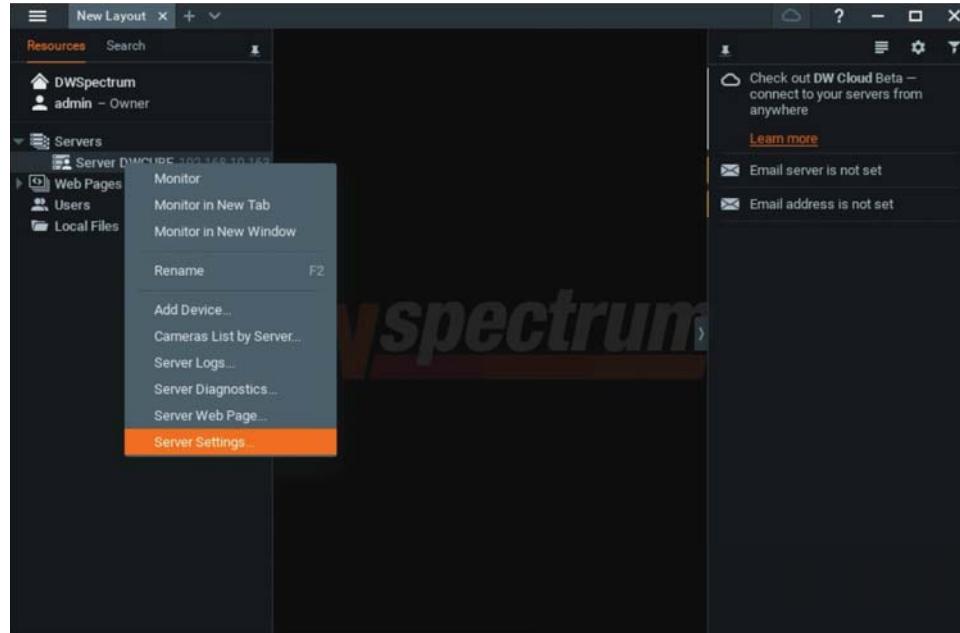
3. Enter password and click connect.

* Default password : **admin1234** (case sensitive)

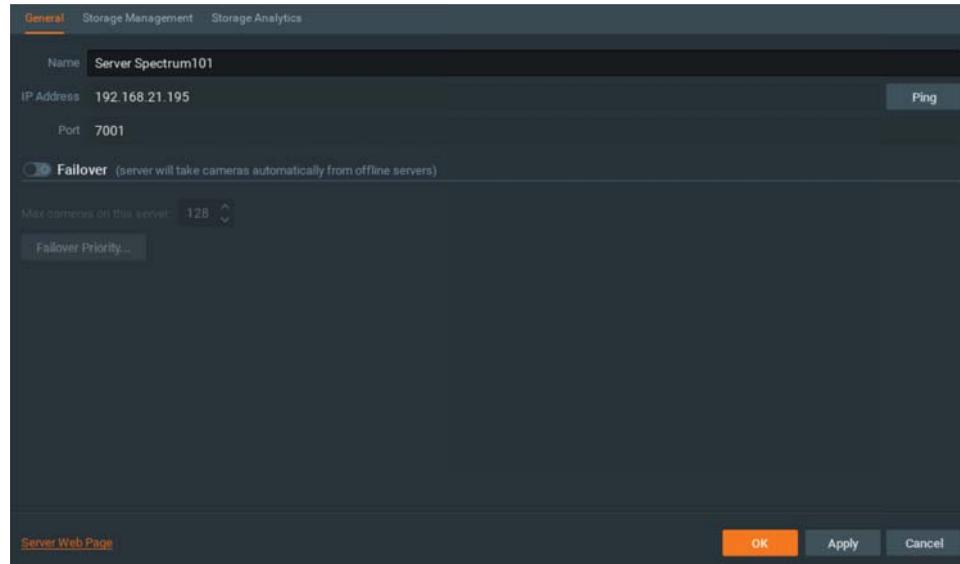


STEP 2: To rename the server

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

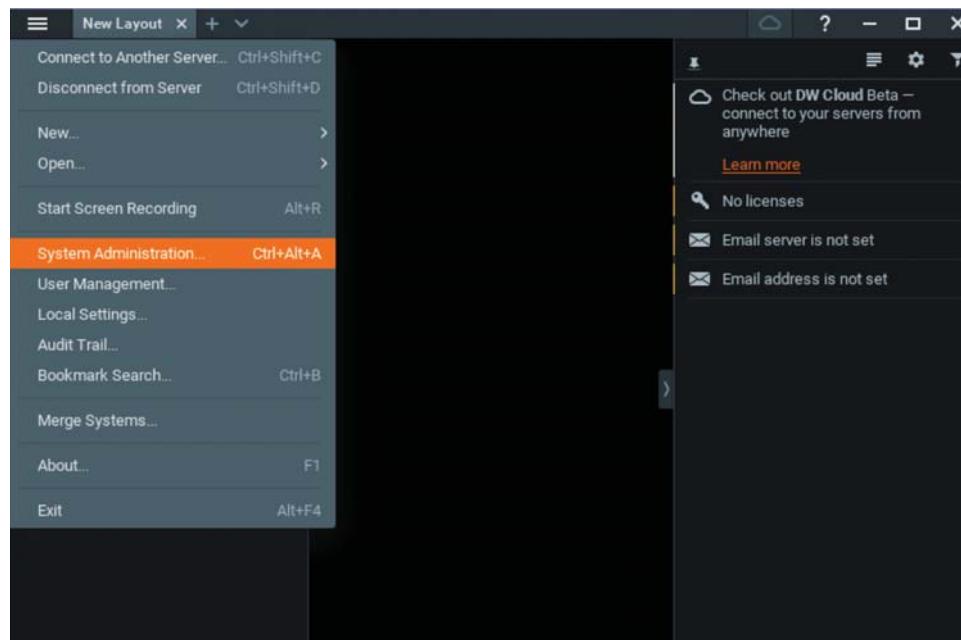


2. Go to General tab, then type in the new server name in the Name field and click OK.

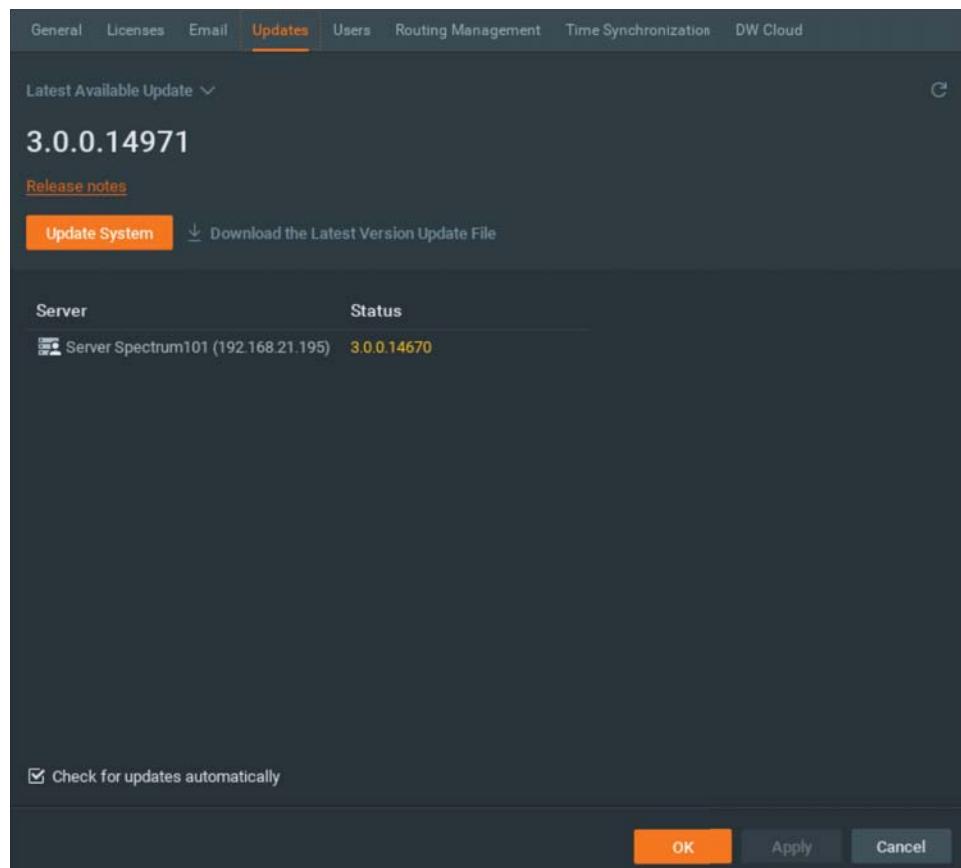


STEP 3: To check for update

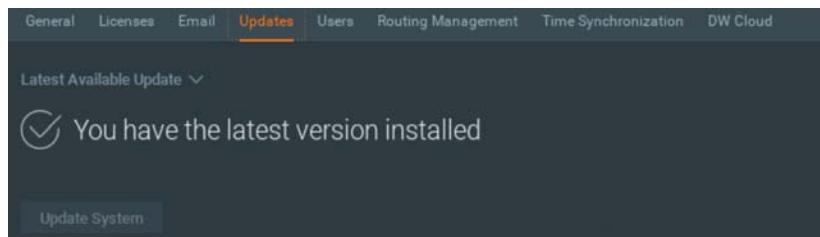
1. Click on the menu  then click System Administration.



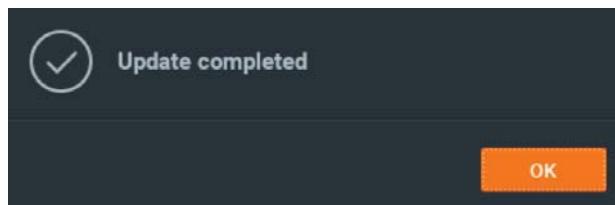
2. Go to Updates tab. Click Update System if turned orange.



* 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.

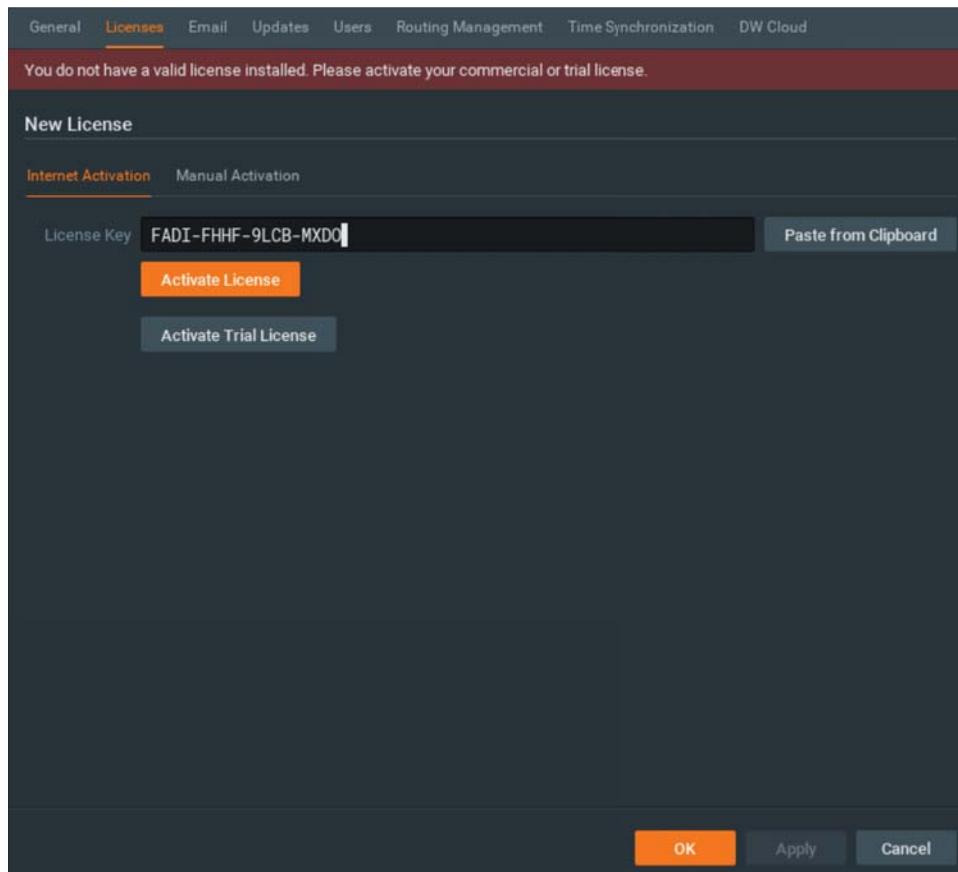


3. Click OK when update is completed.

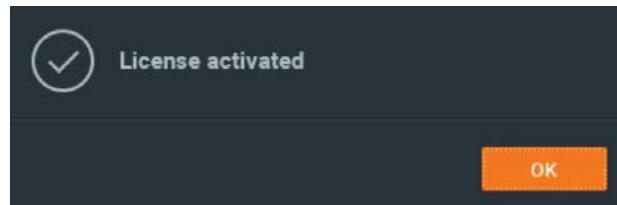


STEP 4: Enter License

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.

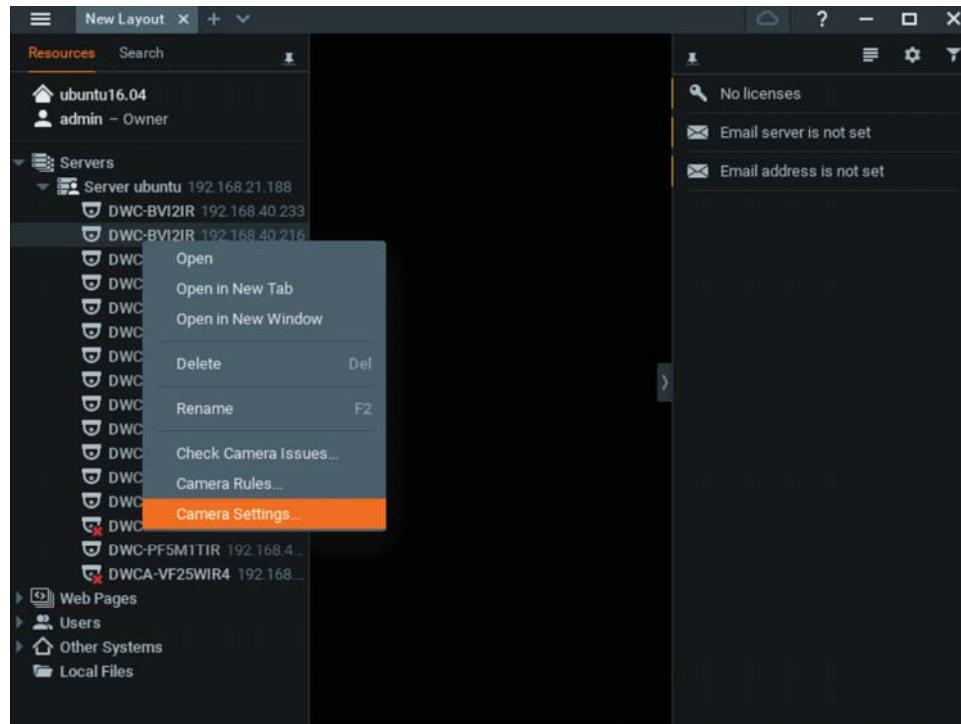


3. Click OK to when the License is activated.

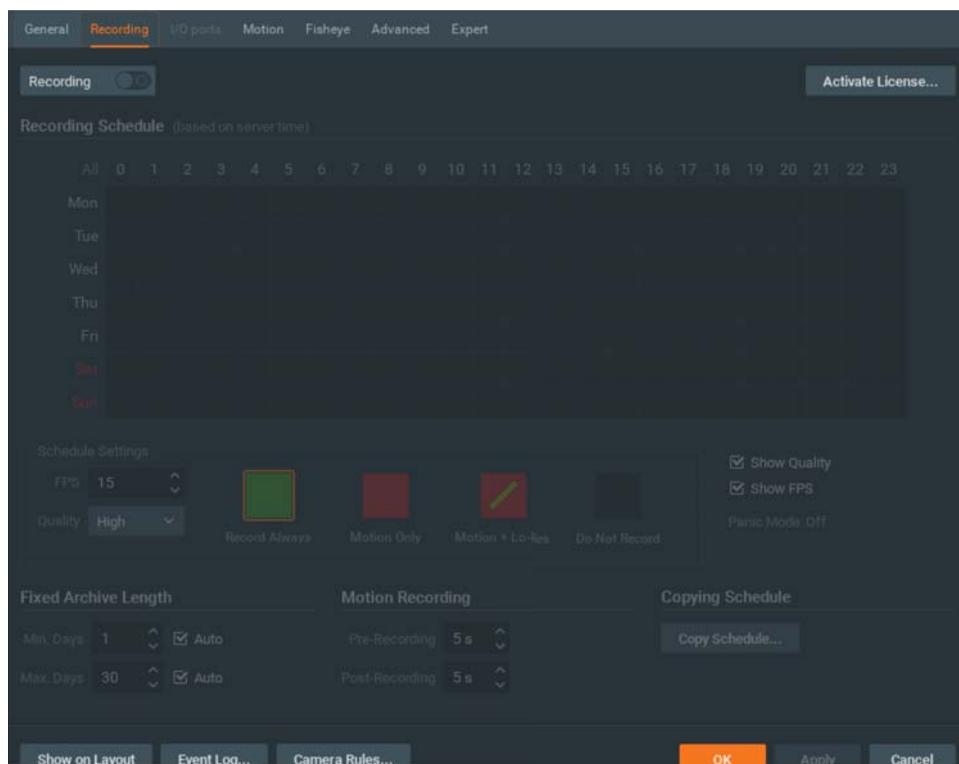


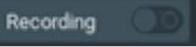
STEP 5: Configure recording

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



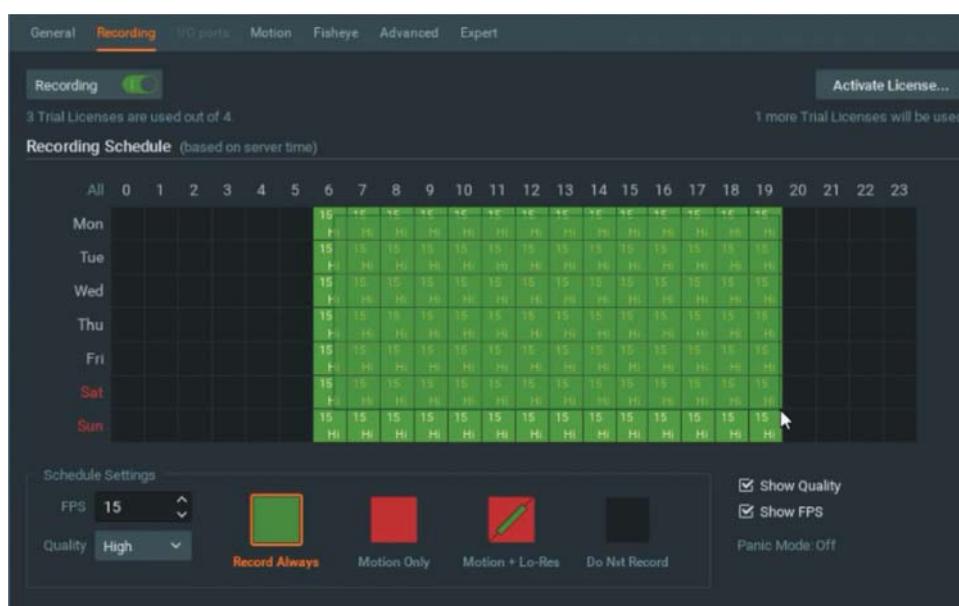
2. Go to Recordings tab.



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.

Recording Schedule (based on server time)

General Recording I/O ports Motion Fisheye Advanced Expert

Recording OK Activate License...

1 Trial Licenses is used out of 4. 1 more Trial Licenses will be used.

Recording Schedule (based on server time)

	All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	
Tue	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	
Wed	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	
Thu	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	
Fri	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	
Sat	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	
Sun	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	Hi	

Schedule Settings

FPS: 15 Quality: High

Record Always Motion Only Motion + Lo-Res Do Not Record

Show Quality Show FPS

Panic Mode: Off

Fixed Archive Length: Min. Days: 1 Auto Pre-Recording: 5s

Motion Recording: Copy Schedule...

Copying Schedule

License limit exceeded, recording will not be enabled.

Show on Layout Event Log... Camera Rules... OK Apply Cancel

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

New Layout X + ▼

Resources Search ? - □ X

ubuntu16.04 admin – Owner

Servers

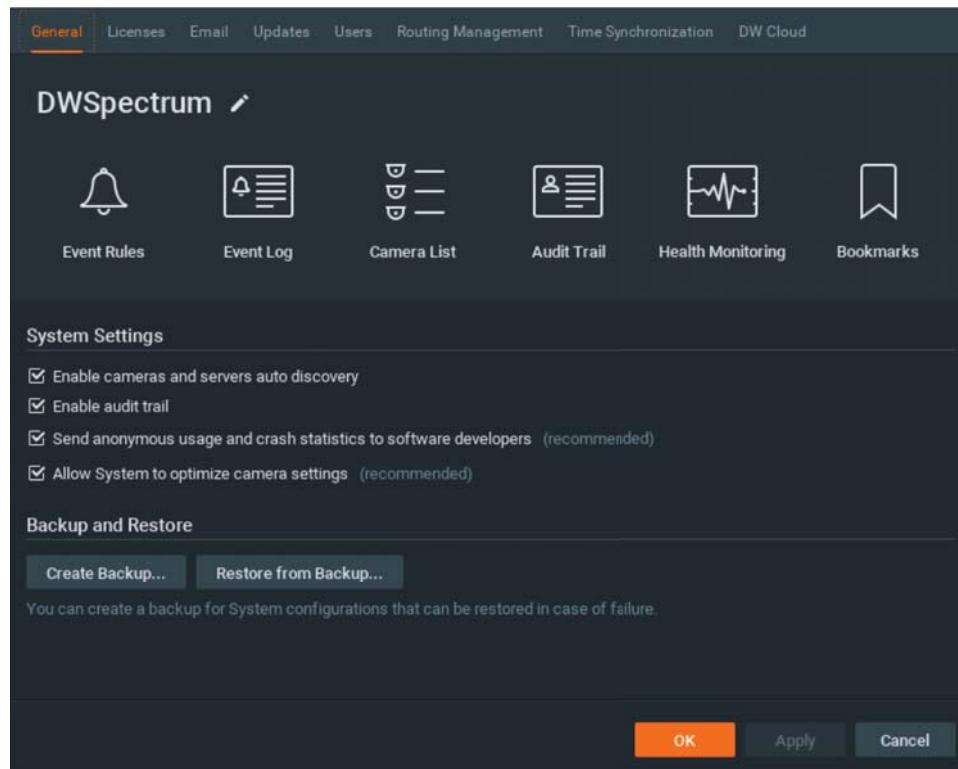
- Server ubuntu 192.168.21.188
 - DWC-BV12IR 192.168.40.233
 - DWC-BV12IR 192.168.40.216
 - DWC-BV12IR 192.168.40.241
 - DWC-BV12IR 192.168.40.229
 - DWC-BV12IR 192.168.40.253
 - DWC-MB421TIR 192.168.4...
 - DWC-MB950TIR 192.168.4...
 - DWC-MD421TIR 192.168.4...
 - DWC-MD421TIR 192.168.4...
 - DWC-MV82WIA 192.168.4...
 - DWC-MV950TIR 192.168.4...
 - DWC-PB2M4TIR 192.168.4...
 - DWC-PB2M4TIR 192.168.4...
 - DWC-PF5M1TIR 192.168.4...
 - DWC-PF5M1TIR 192.168.4...
 - DWC-VF25WIR4 192.168...

Web Pages Users Other Systems Local Files

Email server is not set
Email address is not set

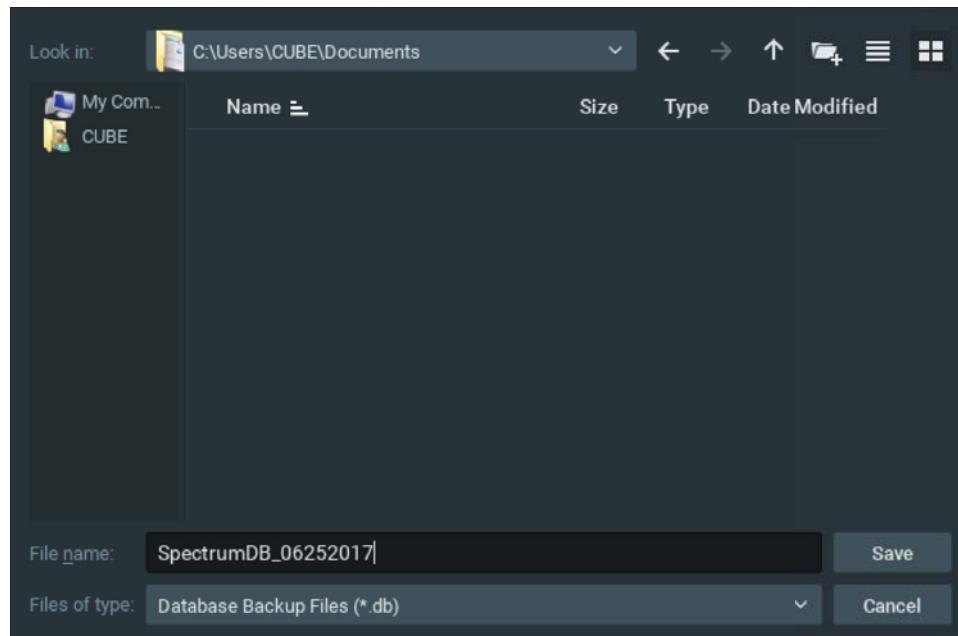
STEP 6: Backingup Database

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.

Problem	Possible Solutions
My camera does not auto-discover	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	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	
 Linux OS	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 not be supported by DW™ Tech Support

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DW DIGITAL
WATCHDOG®
Complete Surveillance Solutions

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