



Servers Powered by DW Spectrum® IPVMS

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

Blackjack[®] X-Rack[™] — Up to 200 2.1MP/1080p IP cameras (true HD resolution)

DW-BJX2U

Default login information for DW Spectrum[®] IPVMS

Username: admin	Password: admin12345
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WHAT'S IN THE BOX									
X-Rack™ server		1	Power cable		2 sets	Keyboard and mouse	d d	1 set	
Quick start guide		1							

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[®] X-RACK[™] HARDWARE



Default login information for pre-installed DW Spectrum[®] IPVMS

Username: **admin** Pa

nin Password: admin12345

- F1 2x USB 2.0 ports
- F2 Power button
- F3 HDD status LED
- F4 Removable SSDs
- B1 Power input
- B2 Serial port
- B3 2 x USB 2.0 ports
- B4 2 x USB 3.0 ports
- B5 10Gbps Ethernet port (LAN1)
- B6 10Gbps Ethernet port (LAN2)
- B7 HDMI port, DVI port*
- B8 RAID controller
- NOTE The local video outputs should be used for configuring the DW Spectrum^{*} and cameras, not for viewing cameras running on a DW Spectrum^{*} client.

SPECIFICATIONS

PART NUMBER		DW-BJX2U			
Maximum IP cameras		200 (2.1MP/1080p @30fps, with high recording quality)			
Included IP licenses		8			
Form factor		2U rack mount			
		Windows Server 2016			
Operating system	OS on SSD	2x SSD (RAID1 mirrored), hot-swappable bays with lock			
CPU		Intel Xeon [®] processor with 8 cores			
		32GB DDR4 ECC			
Memory		Option: DW-MEM32GX - 32GB(2x 16GB) memory upgrade kit*			
Eth ann a thu ant		2 x 10 gigabit Ethernet (RJ45)**			
Ethernet port		Option: DW-R10NIC - secondary 10Gbps RJ45 port*			
System	Max video storage rate (Mbps)	1200Mbps**			
Storage	Max. DW-BJNAS RACK Connection	4 (up to 560TB)			
	Outputs	True HD and DVI output***			
video-out	Resolution	HD 1080p			
Pre-loaded VMS software	·	DW Spectrum [®] IPVMS Server			
Remote clients		Cross platform - Windows', Linux Ubuntu' and Mac'			
Mobile apps		iOS" and Android"			
Keyboard and mouse		Included			
Rail-kit		Included (4 post static)			
Power supply		Dual 380W redundant****			
Operating temperature (ambient r	oom temperature)	50°F~80°F (10°C-27°C)			
Operating humidity		20-60% RH			
Dimension (WxDxH)		17.29" x 21.93" x 3.46" (439.3 x 557.1 x 88 mm)			
Warranty		5 year			

SETTING UP THE SERVER

STEP 1: Connect external devices, power and network.

- Connect a monitor, USB keyboard, USB mouse and network cables as illustrated in the diagram below. Connect LAN1(B6) first to configure the NAS devices and cameras. Configure the local network later.
 - * LAN1 should be connected to a 10Gigabit switch port.
- 2. Connect the server to an appropriate power source.
 * It is recommended to use an uninterrupted power supply (UPS) system of 1500VA or higher.
- 3. Turn on the server if the server does not turn on automatically.
 - (Press the power button on the front of the server. F2 on the diagram).
 - * Connecting the power cable to the live power source may turn on the server automatically



STEP 2: Configure Date and Time Windows®



2. Change time zone if it is incorrect

Change time zone...

(Default is UTC-08:00 Pacific Time).



📸 Time Zone Settings	×	:
Set the time zone:		
Time zone:		
(UTC-08:00) Pacific Time (US & Canada)	~	
(UTC-08:00) Pacific Time (US & Canada)	^	
(UTC-07:00) Arizona (UTC-07:00) Chibushus La Dan Manatlan		
(UTC-07:00) Chindanda, La Paz, Mazatian (UTC-07:00) Mountain Time (US & Canada)		
(UTC-06:00) Central America		
(UTC-06:00) Central Time (US & Canada)		
(UTC-06:00) Easter Island		
(UTC-06:00) Guadalajara, Mexico City, Monterrey		
(UTC-06:00) Saskatchewan		_
(UTC-05:00) Bogota, Lima, Quito, Rio Branco		
(UTC-05:00) Chetumal		
(UTC-05:00) Eastern Time (US & Canada)		

Press OK after selecting the correct time zone.

Click "Change date and time..." to update the date and time if they are not correct.

* Verify the time zone before updating the date and time. Time may show 2 or 3 hours off due to incorrect time zone.



Press OK after adjusting to the correct date and/or time.4. Press OK to close the date and time window when done.

STEP 3: Configure Network

Have the following information ready before starting the network configuration.

	NAS and Camera Network	Local Network (LAN)
IP Address		
Subnet Mask / Netmask		
Default Gateway / Gateway	Not Applicable	
DNS Servers	Not Applicable	

* NAS and camera network and local network cannot be on the same network.

NOTE The server's network settings are set to DHCP as default.

NOTE If you are not sure what information to enter, contact your Network Administrator or Internet Service Provider for the information.

Windows[®]



- 1. Double-click "Network Connections" on the desktop.
- 2. Right-click on the Ethernet with cable connected and click "Properties".



3. Select "Internet Protocol Version 4 (TCP/IPv4)" and click "Properties".



Blackjack[®] X-RACK Servers Powered by DW Spectrum[®] IPVMS

Internet Protocol Version 4 (TCP/IPv4) Pro	perties ×							
General Alternate Configuration								
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.								
Obtain an IP address automatically								
Use the following IP address:								
IP address:								
S <u>u</u> bnet mask:								
Default gateway:								
Obtain DNS server address automatics	ally							
Use the following DNS server addresse	es:							
Preferred DNS server:								
Alternate DNS server:								
Validate settings upon exit Advanced								
	OK Cancel							

- 4. Select "Use the following IP address" (Use the following DNS server addresses will be selected automatically).
- 5. Enter IP address and Subnet mask of the NAS and camera network. (Do not enter anything for the Default gateway, Preferred DNS server and Alternate DNS server.

NOTE The server should be installed on the same network (LAN1) as the security cameras and NOT placed on the corporate LAN (LAN2).

Internet Protocol Version 4 (TCP/IPv4) Properties								
General								
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.								
O Obtain an IP address automatically								
• Use the following IP address:								
IP address:	192 . 168 . 10 . 10							
Subnet mask:	255 . 255 . 255 . 0							
Default gateway:								
Obtain DNS server address autom	natically							
• Use the following DNS server add	resses:							
Preferred DNS server:								
Alternate DNS server:								
Ualidate settings upon exit	Ad <u>v</u> anced							
	OK Cancel							

6. Click OK to close then click close to go back to network connections.

Configuring Local Network(LAN2)

- 7. Right click on the other Ethernet, the one with network cable unplugged, and click "Properties".
- 8. Select "Internet Protocol Version 4 (TCP/IPv4)" and click "Properties".

This	connection uses	the followi	ng items:					
	Eclient for Microsoft Networks E							
	Internet Prote	Scheduler	n 4 (TCP/	(IPv4)				
Microsoft Network Adapter Multiplexor Protocol								
	Microsoft LLI	DP Protoc	ol Driver					
	1 Internet Prote	ocol Versio	n 6 (TCP/	1Pv6)			~	
<						>		
	Install	Un	install		Prope	ties		
-								
nternet l	Protocol Version 4 (T	CP/IPv4) Pro	perties		×			
General	Alternate Configurat	ion						
You car this cap for the	n get IP settings assigr bability. Otherwise, you appropriate IP setting	ned automatic u need to ask s. tomatically	ally if your ne your network	twork sup administr	ports ator			
	e the following IP add	ress:						
IP ac	ddress:							
Subr	net mask:							
Defa	ult gateway:			$\mathcal{A}_{i} = \mathcal{A}_{i}$				
	btain DNS server addre	ess automatic	ally					
-OU	s <u>e</u> the following DNS se	erver address	es:					
Pref	erred DNS server:							
<u>A</u> lter	nate DNS server:							
V	alidate settings upon e	exit		Ad <u>v</u> anc	ed			
			ОК		Cancel			

9. Select Use the following IP address (Use the following DNS server addresses will be selected automatically)

10. Enter IP address and Subnet mask of the camera network.

* Consult with your IT department if you do not know what IP address to use.

Internet Protocol Version 4 (TCP/IPv4) Properties					
General					
You can get IP settings assigned auto this capability. Otherwise, you need t for the appropriate IP settings.	matically if your network suppor o ask your network administrator	ts			
O Obtain an IP address automatica	lly				
• Use the following IP address:					
IP address:	10 . 1 . 1 . 10				
Subnet mask:	255.255.255.0				
Default gateway:	10 . 1 . 1 . 1				
Obtain DNS server address auto	matically				
• Use the following DNS server ad	dresses:				
Preferred DNS server:	8.8.8.8				
<u>A</u> lternate DNS server:	8.8.4.4				
Validate settings upon exit	Ad <u>v</u> anced.				
	OK Can	cel			



- 11. Click OK to close then click close to go back to network connections.
- 12. Connect a network cable to the Ethernet port B6 on the diagram (page 2) to the switch on the local network.
- 13. Close the network connections dialog.



CONNECT BLACKJACK[®] NAS[™] STORAGE USING DW[®] IP FINDER[™]

Follow the QSG accompanied with the Blackjack® NAS[™] rack-mount models to properly connect to the network.



(DW IP Finder version 4.4.0 shown)

- 1. From the Windows-based Blackjack[®] server, client or any Windows[®] PC, open DW IP Finder[™] by doubleclicking on the DW IP Finder[™] icon on the desktop w or click on DW IP Finder[™] from the Start Menu > All Programs > DW IP Finder[™].
- 2. If the DW IP Finder[™] is not installed or not the latest version, download and install from the following URL: <u>https://digital-watchdog.com/productdetail/DW-IP-Finder/</u>.
 - Under the software tab, download the latest software file.
 - Install the DW IP Finder[™] by following the installation wizard.
 - * Requires DW IP Finder[™] 4.3.17 or later version.
- 3. When DW[®] IP Finder[™] is launched, change the device to BJNAS and click ^{Scan Devices} to scan for the Blackjack[®] NAS[™] models on the network.
- 4. If any of the Blackjack[®] NAS[™] are not listed, change the Network by clicking the drop down and select another network if exist. Then click Scan Devices to scan the network for the Blackjack[®] NAS[™].
- 5. Find the Blackjack® NAS[™] from the list, then either double click on the Blackjack® NAS[™] logo or click on the under the IP Conf. column.

🚰 IP Finder Ver 4.4.0												-	D X
	AI											Tot	al Devices : 3
Network	Thumbnail	Name	IP Address	Model	MAC Address	Netmask	Gateway	Port	DHCP	Version	Ping Test	IP Conf.	Uptime
NAS-Camera [192.168.1.1]													
BINAS Scan Devices	Blackjack NAS	Blackjack NAS RACK	192.168.1.200	DW-BJ8NASR80T	0C:F0:19:01:04:43	255.255.255.0	192.168.1.1	80	Disabled	1.0.0_180511	Ping	Click	
Thumbnal Refresh Thumbnal	Blackjack NAS	Blackjack NAS RACK	192.168.1.200	DW-BJ16NASR64T	0C:F0:19:01:04:69	255.255.255.0	192.168.1.1	80	Disabled	1.0.0_180529	Ping	Click	
Buk IP Assignment FW Upgrade	Blackjack NAS	Blackjack NAS RACK	192.168.1.200	DW-BJ16NASR80T	0C:F0:19:01:04:6D	255.255.255.0	192.168.1.1	80	Disabled	1.0.0_180529	Ping	Click	
DIGITAL WATCHDOG Complete Surveillance Solutions													



6. From the "Device Settings" window, enter IP address, netmask and gateway. Click "Apply" to save changes.

Dialog				?		×
Device Name		DW-BJ8NA	SR80T			
MAC Address		0C:F0:19:0	1:04:43	3		
Adjust Spectr	um Rese	rve Space for	NAS			
Spectrum ID	admin				A alia	
Spectrum PW][Aajus	κ.
IP Configuration	on					
O DHCP						
Static IP						
IP Address		192.168.1	.200]
Netmask		255.255.25	5.0]
Gateway		192.168.1	.1]
Username adm	nin					_
Password •••						
Add NAS to the Windows						
Website		Apply	(Can	cel	

NOTE The Blackjack® NAS[™] should be configured using a static IP address. If the IP address will be obtained using a DHCP service, confirm the address has been reserved and will not expire.

- 7. From the main DW[®] IP Finder[™], click Scan Devices to update the list with new IP address.
- 8. Find the Blackjack[®] NAS[™] from the list, then either double-click on the Blackjack[®] NAS[™] logo or click on the button under the IP Conf column.
- 9. Click Add NAS to the Windows to add to the server. Script will run and add volumes to the server.

When completed, "Success" will be displayed for Disk 1 and Disk 2. Click any key on the keyboard to close the CMD window.

C:\Windows\SYSTEM32\cmd.exe	-	×
Success to run script file for diskpart disk 2 Finished the batch file		^
Ver: 1.0.0 / Date: 2018.05.11		
RESULT (0)		
iSCSI Initiator Service : Success		
IP Address : 192.108.1.203		
liscsi Target		
Courts : 1 found		
iqn.2015-10.com.DW:BJ8NASR80T:180927T113528 > Login Success		
[Disk Format]		
Disk 1 : Success		
DISK Z . SUCCESS		
Press any keys to exit		
		~

If you have another Blackjack NAS Rack, repeat steps 5 ~ 9.

10. Close DW[®] IP Finder[™] if no other devices to configure.

11. Reboot the server.

DW Spectrum® IPVMS Client (only use for initial configuration and maintenance)





SETTING UP THE DW SPECTRUM® MEDIA SERVER

STEP 1: Initial run from the DW Spectrum[®] client.

- 1. Open DW Spectrum® client by double click on the DW Spectrum® icon
- 2. Click on the pre-configured Blackjack[®] MINI[™].



- 3. Enter the server's password and click connect.
 - * Default password: admin12345 (case sensitive).

wspect	rum
DWSpectrum 192.168.10.163 admin Password	×
Save password Connect	

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, type in the new server name in the name field and click OK.





STEP 3: To check for update

1. Go to the menu on the top left 📰 and click system administration from the drop down list.



2. Go to the updates tab.



* If you are on the latest version, the dialog will say "You have the latest version installed" and the update system button will be disabled.

STEP 4: Enter and activate licenses

- 1. Go to the system administration dialog from the top menu's drop-down options and click on the license tab.
- 2. Enter the license key and click "Activate License". (Internet connection is required) * Click on "Activate Trial License" if you have not purchased a valid license key.

General Lice	msea Email	Updates User	Routing Management	Time Synchronization	DW Cloud
You do not hav	e a valid licens	e installed. Please	activate your commercial o	or trial license.	
New License	;				
Internet Activat	ion Manual /	Activation			
License Key	FADI-FHH	F-9LCB-MXDO			Paste from Clipboard
	Activate Li	icense			
	Activate T	rial License			
L aga					
19 - 탄왕화	생동동합을 다				

3. Click OK once the license key is activated.





STEP 5: Configure recording

- * Supported cameras and devices on the same network as the server will be added automatically under the server's resource tree. The cameras and other network devices must have the same network settings as the server. If the cameras are not listed, follow the steps below to add the cameras manually. Skip to 1 if all cameras have been discovered automatically.
- a. Right-click on the server and select "Add Device" from the context menu.



- b. Enter the IP address of the camera in the device address field. Enter the camera's username and password. Leave the Discovery Port to Auto.
 - * The IP address of the cameras can be obtained via the DW IP Finder™.



c. Once the camera is discovered, check the box next to it from the results and click "Add Selected".



- d. Repeat until all the cameras are added.
- 1. Right-click on the camera to set up recording. Click on "Camera Settings" from the context menu.

Quick Start Guide



2. Go to the recordings tab.

Cervered Neuroles (Loopen Network Network Advanced Expert Networking Schedules (Loopen Schedules (Loo	Carnera Settings	- DWC-	HITHMA	- DW Sp	ectrum (lient													키지
Activative Layer Vertice. Currents Rates. Corrents Rates. Corr																			
Click Recording Courses Balas	tacording															Act	iivate L	konsa.	
Click Recording to turn on recording. (Recording enabled																			
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Click Recording to turn on recording. (Recording enabled r																			
Section Length 1 Matter Recording Enging Schedule Show or Layort Veriflog. Carriers Rates CK Apply Carcel Click Recording Cont to turn on recording. (Recording enabled F																			
Show or Layed Eventual Motion Decending Eventual Show or Layed Eventual Ch. Apply Click Recording Con																			
Show on Layout EventLog. Carriers Rules OK Appy Carcel Click Recording OD to turn on recording. (Recording enabled F																			
Click Recording COD to turn on recording. (Recording enabled													-	-					
Click Recording CID to turn on recording. (Recording enabled	Show on Layou		EVENILO	9-	Came	n Paulla								OK		APPY		Cancel	
Click Recording CID to turn on recording. (Recording enabled																			
Click Recording LLB to turn on recording. (Recording enabled		_		_															
	Click	Rec	ording			t	o tu	rn o	n re	col	rdin	g. (Red	corc	ding	g er	nab	led	F

- 4. Configure the schedule settings for quality, FPS and recording type.
- 5. Click and drag the mouse over the recording schedule to apply the recording setting to multiple days and hours.

)



General												
Recordin											tivate	
Recordin												
М												
, i												
W												
Ţ												
1												
2												
School												
Hra												
Quality												

* Click on "All" to apply to the entire schedules.



General	lecordi	ng	NO pr	uta -	Motio	on	Fishe	ye	Adva	nced	Exp	et.												
Recording																							ctivate	
Recording	Sche	dule																						
AI																								
Mon Tue Wed Thu Fri Sat							15 × 15 × 15 × 15 × 15 ×	二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二	1 日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	1日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	1 日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	11 H 15 H 15 H 15 H 15 H 15 H	10 H 15 H 15 H 15 H 15 H	12 HI 15 HI 15 HI 15 HI 15 HI	1 日 日 日 日 日 日 日 日 日	10 HI 15 HI 15 HI 15 HI	11 H 15 H 15 H 15 H 15 H		10 HA 15 HA 15 HA 15 HA					
Schedule FPS Quality			0		ecord)	Alwa	15 Hi	15 Ha	15 Hi	15 Hi	15 Hi	15 H	15 - Lo-R	15 Hi	15 Hi Do N	15 Hi	15 Hi	15 H4	E P	15 ∦ Sho ≧ Sho anic N	ow Qu ow FP Aade	ality s off		

6. A red dot will appear next to the camera in the resource tree once recording is started.



STEP 6: Backup database

1. Click on the menu on the top left of the screen and click on "System Administration" from the drop-down list.

General Licenses	Email Updates (Jsers Routing Manag	jement Time Synd	chronization DW Cloud	
DWSpectro	um 🖌				
Ŷ	4	ବ ବ 	<u>ه</u>		
Event Rules	Event Log	Camera List	Audit Trail	Health Monitoring	Bookmarks
System Settings					
🗹 Enable cameras a	nd servers auto discov	ery			
🗹 Enable audit trail					
Send anonymous	usage and crash statis	tics to software develo	opers (recommend		
Allow System to c	ptimize camera setting	s (recommended)			
Backup and Resto	re				
Create Backup	Restore from Bac	kup			
You can create a bac					
				OR Appl	y Cancel

- 2. Click on Create Backup...
- 3. Navigate to the folder where you want to save and enter the name of the backup file. Click Save.

	C:\Users\CUBE\Documents	~ (→ ↑ 🖦 🗉 👪
🚑 My Con	¹ Name <u>=</u>	Size Type	Date Modified
CUBE			
File name:	SpectrumDB_06252017		Save
Files of type:	Database Backup Files (* db)		✓ Cancel
	Batasaba Buokup Piloo (.db)		ouncer

* It is strongly recommended to backup your data to an external storage media.

NOTE More information and instructions are available in the DW Spectrum[®] IPVMS user manual.

TROUBLESHOOTING TIPS

Problem	Possible solutions
My camera does not auto-discover	 Is the camera in the same LAN network as the media server? Is your camera compatible with DW Spectrum*? (Refer to our website for full list of supported cameras.) Is the camera updated to its latest firmware? If your camera is integrated with DW Spectrum* via ONVIF, make sure ONVIF is enabled on your camera. Try adding the camera manually. 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	 Are you accessing the same cameras from multiple clients? (LAN and WAN) Do you have a Gigabit network? Check your network speed.
My camera appears disconnected	 Under camera settings, make sure the user name and password are correct. Under the camera settings, use the 'Ping' button to make sure the camera is connected to the network properly. If you can connect to the camera's web viewer, try rebooting the camera and/or restore it to factory default. Make sure your camera is using the latest firmware available. Make sure that the camera is connected to the same network as the server. If you are connecting to a camera that is integrated with DW Spectrum[®] via the ONVIF protocol (see list), make sure ONVIF is enabled. Make sure your user has permissions to view that specific camera.
l cannot get playback video from my camera	 Do you have network connection between client and server (in case server and client are not on the same machine)? Make sure your user has playback viewing permissions for the selected channel. Make sure the camera is set to a recording mode that would provide recorded video for the selected time and environment. On the server side, check the media server log to make sure the camera you are trying to watch has not been unexpectedly disconnected.
l get an 'unauthorized' message on my camera	 Make sure the camera's user name and password are properly entered in the camera's general information under the camera settings menu. If necessary, try rebooting the camera to apply the camera's user name and password.

SYSTEM REQUIREMENTS

Recommended specs for the full client

Processor	Intel® Core® i5 or grea	ater.
Video card	Intel® HD Graphics 25 Recommend NVIDIA	500 (or higher) with 1GB dedicated memory. or AMD graphics card with 2GB or more memory.
Resolution	1920 x 1080	
RAM	16GB	
NIC	1Gbps	
OS supported	Tested operating systems	 Windows[®]: 7, 8, 8.1, 10/Enterprise. Windows Server[®]: 2008 R2, 2012, 2012 R2, 2016 v1607. Ubuntu[®] LTS: 16.04, 18.04.
- media server	Operating system no longer supported	 32 Bit operating system (both Windows® and Ubuntu® Linux®). Ubuntu® 14.04 is no longer supported. Windows Server® 2008 no longer supported. (Only 2008 R2 is supported).
OS supported - client	Tested operating systems	 Windows[®]: 7 Home, 7 Standard, 7 Pro, 7 Ultimate, 8/8.1 Standard, 8/8.1 Pro, 8.1 Enterprise, 10 Home/Pro/Enterprise¹. Windows Server[®]: 2008 R2, 2012, 2012 R2, 2016 v1607. Ubuntu[®] LTS: 16.04, 18.04. OS X 10.13: "High Sierra", 10.14: "Mojave", 10.15 "Catalina". ¹ For Windows 10, i5/i7 processors with 16GB RAM and video card with 2GB or higher RAM is recommended.
	Operating system no longer supported	 32 Bit operating system (both Windows and Ubuntu Linux) Ubuntu 14.04 is no longer supported. Windows Server 2008 no longer supported (Only 2008 R2 is supported)

* Except Storage Server version

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

Tel: +1 (866) 446-3595 Fax: (813) 888-9262



www.digital-watchdog.com sales@dwcc.tv