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# Introduction

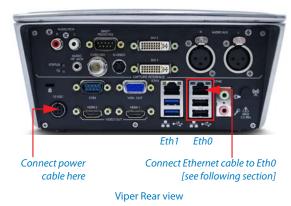
This Getting Started Guide provides the basic steps required to install, configure, and get started using the Viper<sup>™</sup> Streaming & Recording Appliance. Please refer to the Viper Administration Guide, the Viper InStream User's Guide, and/or Haivision's Support Portal for more detailed information.



Haivision's Viper is a compact, integrated appliance for capturing, streaming, reviewing, distributing, and publishing rich, multi-stream high definition content.

# **Installing the Viper**

- Unpack the box and visually inspect the package contents for any evidence of shipping damage. [See Important Notice for list of contents.]
- 2. Install the Viper as a desktop unit.
- 3. Connect the power supply first to the Viper chassis and then to the AC source.



# **Connecting to the Network**

1. To get started, connect the Viper's Eth0 port to the IP network using an Ethernet UTP cable (Type Cat 5 or higher grade).

By default, Eth0 is configured using a static IP address (10. 5. 1. 2) to allow you to connect directly to the unit from a 10. 5.  $\times$ .  $\times$  domain.

**IMPORTANT:** Before you can begin streaming and recording, you *must* configure Eth0 with a valid IP address and gateway to work in your environment. For details, see "Changing the Viper's IP Address" on page 14.

**NOTE:** Eth1 is only used for administrative tasks for support technicians and should *not* be used for streaming and recording.



## **Connecting to A/V Sources**

 Connect one or more of the Viper's Video Inputs to video sources (such as a video camera, DVD player, or computer video card), using the appropriate connector(s), as explained below and on the following pages.

#### To connect Digital DVI or Component Analog Video, or Computer Graphic Input

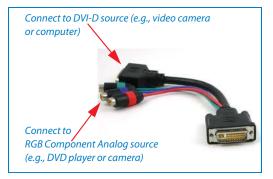
Use the DVI/Component to DVI Adapter (shown below, provided with the unit). This adapter allows you to connect both digital DVI-D and RGB Component Analog video sources to the Viper DVI input connectors.



a. Plug the DVI-I male connector on the adaptor directly into either the DVI 1 or DVI 2 input on the Viper.



b. Then connect the DVI-D female connector and/ or Component connectors on the adapter (shown below) to your video sources.



#### To connect S-Video or SDI-Composite Video Input

- S-Video: Use the 4-pin mini-DIN connector.
- Composite (CVBS) Video: Use the BNC connector.
- SDI Video/Audio (either SD or HD): Use the BNC connector.



**NOTE:** You can connect multiple video inputs on the Viper and then select the input(s) to use from the Touch Panel interface. This allows you to easily switch between analog and digital video inputs without having to plug and unplug cables.

#### **To connect a PTZ Camera**

You can also connect a PTZ camera to the Viper to allow users to control the Pan Tilt and Zoom controls of the camera from the Touch Panel interface. The Viper supports the VISCA (Video Systems Control Architecture) – RS-232 Control protocol (referred to as PTZ remote camera control).

To do so, you need to connect your PTZ camera to the Viper's RS-232 ("COM") port using an appropriate VISCA cable.

For details, see the Viper Administration Guide: Chapter 2 "Installing the Viper".



- Connect the Viper's Audio Inputs to audio sources, using the appropriate connector(s):
  - RCA (unbalanced) Audio: Use the RCA Right and Left connectors.
  - 1/8" Jack (unbalanced): Use the connector marked Audio Stereo or 1/8" Jack (TRS 3.5 mm).
  - XLR (balanced) Audio: Use the XLR Right and Left connectors.
  - SDI Audio: Use the BNC connector.



Stereo BNC

**NOTE:** You can connect multiple audio inputs on the Viper and then switch audio sources from the Touch Panel interface.

# **Connecting A/V Outputs**

- (Optional) To output ("mirror") the visual content displayed in the Touch Panel, connect one of the Viper's Video Outputs to a video display (such as a computer monitor), using the appropriate connector:
  - VGA Output: Use the VGA connector.
  - HDMI Output: Use the HDMI 1 connector.



2. (Optional) To set up Audio Talkback or Audio Preview, connect the green Audio Output connector to a speaker. 3. Press the Power button (on the front of the appliance).



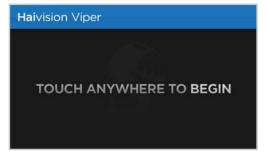
The Power indicator LED should light, and you will see the boot progress bar.

## **Info Screen**

When you see the Touch Panel Welcome screen ("Touch Anywhere to Begin"), the Viper is powered on. From the Info Screen, you can view the network settings, as well as enable Guest mode and/or Asian Fonts.

#### Long Hold to Display Network Settings

 When you first start your Viper, touch and hold on the Touch Panel Welcome screen to display the network settings.



**TIP:** Touch the screen for 1 second and then let go. Allow only one cycle of the animation of the Viper logo (fading in and out) to go by.



2. On the Info Screen, take note of the IP address listed for Eth0.

	Info S	creen	<b>^</b>
Haiv	ision Vi	per rele	ease
Hostn	ame: vipe	.haivision	.com
eth0 (static)		eth1 (sta	tic)
IP: 10.5.1.2		IP:	
Netmask: 255.255.0	0.0	Netmask:	
Gateway: 0.0.0.0		Gateway:	
MAC: 00:18:7D:1E:1	2:6D	MAC: 00:1	8:7D:1E:12:6E
Guest	Asian	Font	Restart

Under Eth0, you will see the default server address for the Viper. You can use this to access the Viper Administrative portal (see "Further Administrative Configuration" on page 21).

#### **Enabling Guest Mode**

Enabling Guest mode gives you quick access to the Viper Touch Panel interface without having to enter a PIN or password.

1. On the Info Screen, select Guest. The button changes to blue to show that Guest mode is enabled.



2. Select Home 🟠 to return the Touch Panel Welcome screen.

Now when you touch anywhere on the Touch Panel Welcome screen, the interface opens the Stream & Record screen.  To disable Guest Mode, return to the Info Screen and Select Guest. The button will change back to grey to show that Guest Mode is disabled.

**NOTE:** Guest Mode settings may be configured by administrators. For details see "Configuring Guest Settings" on page 16.

**TIP:** In the current release, Guest Mode can only be used when the Viper is stand-alone. Guest Mode is not functional when the Viper is part of a Furnace realm.

#### **Enabling Asian Fonts**

In order to display Japanese, Chinese or Korean characters in the labels on the Touch Panel screens, you need to enable Asian Fonts.

1. On the Info Screen, select Asian Font.





2. To apply the change, select Confirm on the confirmation prompt at the bottom of the screen.

Info Screen					
Haivision	Viper release				
Hostname: N	1TL-MAC-013.local				
eth0 (static)	eth1 (static)				
IP: 10.5.1.2	IP: 0.0.0.0				
Netmask: 255.255.0.0 Netmask: 0.0.0.0					
Gatoway: 0 0 0 0	Gatoway: 0.0.0.0				
Swi	tch fonts				
Cancel	Confirm				

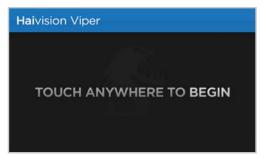
**NOTE:** The UI Labels must be customized and uploaded from the Viper Administrative portal. For more information, refer to the Viper Administration Guide: Chapter 4 "General Configuration: Customizing UI Labels", or contact your system administrator.

# **Administrative Configuration**

The typical way to sign in to the Viper is as follows:

## Signing in to the Touch Panel Interface

1. On the Viper Touch Panel Welcome screen, touch anywhere to begin.



2. Use the numeric keypad to enter your PIN and then select Accept.



**NOTE:** The Viper provides the following default user accounts, based on typical workflows (administrator, content creator, and consumer):

Username:	admi n	creator	consumer		
Password:	admi n	creator	consumer		
PIN:	9999	1111	2222		

Depending on the Authentication Mode set for your Viper, when you enter your PIN, the Touch Panel interface may go directly to the Activities screen. (For information on the Authentication Mode, refer to the Viper Administration Guide: Chapter 4 "General Configuration", or contact your system administrator.)

Otherwise, if your Viper has been configured to require a PIN and Password, you will see the Login screen next (as shown in the following steps).

3. To log in, touch the Username row.





4. Enter your username on the keypad, and select Done.

User	rname		Plea	ase	ente	er us	serr	am	е
Pass	sword		Plea	ase	ente	er p	ass\	vor	d
	q v	,	e	r	t	У	u	i	o p
	а	s	d	f	g	h	j	k	1
	AB.	z	x	с	v	b	n	m	Del
	123		spa	ace		<-		->	Done

5. Now touch the Password row, enter your password, and then select Done.

Username		use	r1							
Password		****								
q v	v	e	r	t	y I	u	i	o p		
a	s	d	f	g	h	j	k	1		
AB.	z	x	с	v	b	n	m	Del		
123		sp	ace		<-		->	Done		

6. Now, select Login.



The Touch Panel interface opens the Activities screen.

### **Changing the Viper's IP Address**

Before you can get started streaming and recording, you need to configure the Viper's Eth0 interface with a valid IP address and gateway to work in your environment.

To modify the Viper's network settings:

1. On the Activities screen, touch Admin.



2. On the Admin screen, touch the eth0 row.



3. On the IP Settings screen, touch the Hostname row and type in the hostname provided by your network administrator.

Cancel	IP Settings 👘
Hostname	Enter local hostname
IP Address	Enter IP address
Netmask	Enter netmask
Gateway	Enter gateway
DNS	Enter primary dns address
	Static DHCP Apply



4. If your system is connected to a Dynamic Host Configuration Protocol (DHCP) server, select DHCP.

When DHCP is selected, the Viper will get an IP address from a DHCP server on the network, and the only mandatory field is the Hostname.

Cancel	IP Settings 🛛 🟠
Hostname	local hostname
IP Address	static ip address
Netmask	enter netmask
Gateway	enter gateway
DNS	primary dns address
	Static DHCP Apply

- If Static is selected, you must manually enter the IP Address, Netmask, Gateway Address, and DNS.
- When you have completed your selections, select Apply.

**NOTE:** Selecting Apply will cause the Viper to reboot, which may take a up to 3 minutes. You will hear a beep as the unit starts to reboot.

- When the Viper has rebooted, touch and hold on the Touch Panel Welcome Screen again to display the Info Screen.
- 8. Take note of the new Eth0 IP address so you can use this address to access the Administrative portal.

Your Viper is now configured to Stream and/or Record.

#### **Configuring Guest Settings**

When setting up the Viper, you may wish to configure separate settings for users who access the Viper using Guest mode.

**NOTE:** In the current release, Guest Mode can only be used when the Viper is stand-alone. Guest Mode is not functional when the Viper is part of a Furnace realm.

1. On the Admin screen, select Guest.

Back	Admin Screen 🖌 🖌			
version:	2.0	2.0.0		
eth0:	10.	10.5.1.2		
Guest		Export	Display	
Shutdown		Restart	HVC	

 The Guest Settings screen is similar to the Start Session screen. From here, you can select the Video input(s) and Audio input, enter Metadata for the asset, and set up RTMP streaming.

Cancel	Guest Settings 🛛 👘
Video	COMP1, COMP2
Audio	1/8″ Jack
Metadata	Recorded by {user},{now},
rtmp://	

For more information, see "Streaming and Recording from the Viper" on page 25.



#### **Configuring Export Settings**

The Viper creates assets based on the transport streams it receives. You can transfer a recorded asset to an external USB drive connected to the one of the five available USB ports. (The supported drive format is FAT32.)

The Viper can also transcode recorded assets to other file formats. When setting up the Viper, you can configure the transcode settings for export.

1. On the Admin screen, select Export.

Back	1	Admin Screen	ĥ	
version:	2.0	.0		
eth0:	10.	10.5.1.2		
Guest	t	Export	Display	
Shutdown		Restart	HVC	

2. On the Export Settings screen, touch Raw. (The default, Raw, disables the transcoding parameters and causes a "raw" asset to be exported in MPEG-TS format.)



- 3. The Export Settings screen now shows the Export parameters, consisting of the following:
  - Downscale: 1:1, 2:1, 4:1 or 8:1
  - Format: AVI, WMV, MOV (QuickTime), or MP4
  - Quality: Best, High, Medium, or Low

Cancel	Export Settings 🛛 📸			
1:1	2:1	4:1	8:1	
Ανι	WMV	моу	MP4	
Best	High	Medium	Low	
Raw			Apply	

**NOTE:** Dual assets will be transcoded as two distinct assets (i.e., two separate files).

4. Select the Downscale, Format and Quality settings and select Apply.

### **Configuring Output Display Settings**

You can configure the Viper to output ("mirror") the visual content displayed in the Touch Panel. You may also choose to display the video streams/content without the Touch Panel command interface.

1. On the Admin screen, select Display.

Back	Admin Screen 🛛 🕋		
version:	2.0.0		
eth0:	10.5.1.2		
Guest Export Display			
Shutdown		Restart	HVC

- 2. On the Display Settings screen, select either:
  - Mirror: Displays the Touch Panel user interface and the video streams (the same functionality as found in Version 1.1), or
  - Video: Displays only the video streams without the User Interface.



Cancel	Display	ĥ	
	Mirror	Video	
	HDMI VGA		
			Apply

3. Next, select the output port, either HDMI 1 or VGA:

**NOTE:** Only one port is enabled at a time. In order to change one port for the other, it is necessary to stop the streaming and/or recording session and modify the Display Settings. Once the settings are changed from one port to the other, the system may prompt for a Viper restart.

- 4. If you select Video for the Display Setting, you can select the default display format, either:
  - PIP: Displays two video streams only,
  - Src 1: Displays Source 1 video stream only, or
  - Source 2: Displays Source 2 video stream only.



**NOTE:** When you select Video, the display will be blank except when the Viper is displaying a stream (e.g., Select Inputs, Stream & Record, and Review & Publish>Review screens).

5. Select Apply.

## **Configuring HVC Settings**

You can configure the Viper to export recorded assets to a folder located on an FTP server. The Haivision Video Cloud (HVC) video content management system can be configured to monitor this folder for new assets. HVC will automatically ingest new assets that are uploaded to the folder.

**NOTE:** Contact your Haivision sales representative or <u>hvc-sales@haivision.com</u> for information about setting up a new HVC account. During the HVC account provisioning and on-boarding process, an FTP watch folder will be created and FTP credentials will be provided to you.

1. On the Admin screen, select HVC.

Back	/	Admin Screen	) î	
version:	2.0	.0		
eth0:	10.	10.5.1.2		
Guest		Export	Display	
Shutdown Restart HVC			HVC	

2. On the HVC Settings screen, fill in the Login and Password fields with the FTP server credentials.



- Next, fill in the Server field with the FTP watch folder server name and path, e.g., <u>123456.upload.akamai.com/123456/CUSTOMER-US/watch</u>
- 4. When you have completed the entries, select Apply.



# **Further Administrative Configuration**

The Viper comes pre-configured to allow you to begin streaming and recording as soon as the appliance is set up correctly and all necessary network and A/V connections are established.

This section explains how to access the Administrative portal should additional administrative tasks be required to integrate the Viper into your environment.

Please refer to the Viper Administration Guide for additional topics such as

- Managing user accounts (Chapter 3)
- Defining Hotmarks (Chapter 3)
- Configuring the Viper Publishing Method and Destination (Chapter 4)
- Integrating the Viper in a Furnace network (Chapter 5)
- Modifying the default channel configuration (Chapter 6)

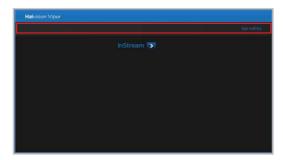
For example, to configure more than one Viper on the same network., you need to set the multicast stream addresses in the Channel Editor.

#### Accessing the Viper Administrative Portal

1. Open a Web browser of your choice and type the Viper's default IP address (10. 5. 1. 2) in the address bar.

**NOTE:** This assumes you are connecting from a 10. 5. x. x gateway. If you changed the Viper's network settings to work in your environment, enter the new address (see "Changing the Viper's IP Address" on page 14).

2. On the Launch page, click Sign In from the navigation bar.



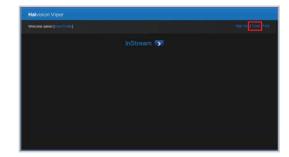
3. Sign in with the default admin username and password: admi n/admi n.

Welcome to	Viper Streaming & Recording Appliance by H	laivision.
	: Usemame	
	Note: Username and Paeswood are case	
	Welcome to	Password Parts: University and Password are case

#### **Configuring the Encoder Settings**

Before you can get started streaming and recording, you may need to configure the Video and Audio Encoder settings for your Viper.

1. On the Launch page, click Tools from the navigation bar.





- Decision of the second sec
- 2. On the Tools page, click the Admin icon.

3. On the Admin page, click the Encoder Settings link (under General).

	Adm
Adherication	
Group Permission	
User Permissions	
Group Administration	
Device Manager	
Credential Manager	
General	
Configuration	
Dt Amendation	
Electer Sellings License Manager	
Service	
Server Manager	
Sign Cwi	

4. On the Video tab, select or enter the settings for the Primary and Secondary encoders, such as the Video Profile, GOP Size, and Bitrate.



**NOTE:** The Viper generates a list of possible resolutions based on the Input detected. The Input settings selected from the Touch Panel interface will take precedence if there is a conflict. But the Encoder settings (such as Video Profile and Resolution) remain as set on this page.

**TIP:** De-interlacing is provided on the Primary encoder. If you intend to produce a progressive stream, such as 1080i to 1080p, make sure to use the "Primary" encoder.

 Click the Audio tab and select or enter the values for the audio, such as the Sample Rate, Channel mode, and Bitrate.





## Streaming and Recording from the Viper

**NOTE:** The Activities screen options vary with the username and/or PIN. If you log in as an admin user, you will see an Admin option which will allow you to perform administrative tasks such as upgrading or shutting down the Viper.

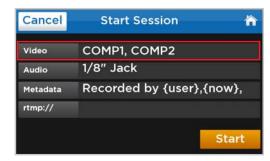
#### **Setting Up Dual Video Streaming**

1. On the Activities screen, select Stream & Record.



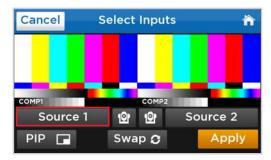
From the Start Session screen, you can select the Video input(s) and Audio input, and enter Metadata for the asset. You can also set up RTMP streaming.

2. On the Start Session screen, touch the Video row.



This opens the Select Inputs screen.

3. On the Select Inputs screen, touch Source 1.

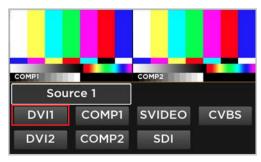


The selection buttons for the Video Inputs appear below the players. The selections are:

DVI1	COMP1 (Component)	S-Video	CVBS (Composite)
DVI2	COMP2 (Component)	SDI	None (Source 2 only)

**TIP:** COMP1 and COMP2 (Component format) are RGB-Analog. For Computer Graphics, select DVI 1 or DVI 2.

 Select one video format for Source 1 (for example, DVI 1).



5. Now touch Source 2 and select the second video format (for example, CVBS).



#### You should now see both inputs.





**TIP:** To swap the video inputs, select Swap.



This is useful to make sure the inputs match the recording order that you prefer. The Encoder Settings will follow the order that you select.

To enlarge either input, touch the player (for example, Source 1).



To return to normal view, touch the screen again.



**TIP:** To view the video in PIP (Picture-in-Picture) mode, select PIP.



Source 2 will be in the PIP window.



To swap the video inputs in PIP mode, touch the smaller player.

To return to normal view, touch the larger player.

- 6. To configure the PTZ camera control for an input, see the following section "Setting Up PTZ Camera Control for an Input".
- 7. When you have completed your input selections, select Apply.





### Setting Up PTZ Camera Control for an Input

You can configure the Viper to allow users to control the Pan Tilt and Zoom controls of a video camera from the Touch Panel interface.

**NOTE:** For details on connecting the PTZ camera to the Viper, see the Viper Administration Guide: Chapter 2,"Installing the Viper".

The following camera controls are supported:

- Moving the finger to the left or right activates the PAN command.
- Moving the finger from top to bottom activates the TILT command.
- Tapping the 🛃 or 🗖 overlays and dragging vertically up or down activates the ZOOM command.
- Tapping the Home no overlay returns the camera to its default position and zoom.

The PTZ controls are available on the Select (Video) Inputs and Stream & Record Activity Screens.

To enable the PTZ camera control for an input, you need to bind the selected input source to the PTZ controller of the Viper.

- 1. On the Select Inputs screen, touch located next to the Source selection button.
- On the PTZ camera setup screen, select the number to bind the camera to the selected source and select Accept.



**NOTE:** The VISCA protocol supports up to seven PTZ cameras over the same interface. This allows several cameras to be daisy-chained over the same RS-232 communication port.

## Setting Up Single Video Streaming

To stream or record a single source, follow Steps  $\underline{#1}$  through  $\underline{#4}$  (previous section).

Then select None for Source 2 (as explained below). This will disable the second encoder and provide only a single source on the Touch Panel.

1. For Source 2, select None for the video format.



The Select Inputs screen will now show "No source selected" for Input 2.

2. When you have completed your input selections, select Apply.





## **Setting Up Audio**

1. On the Start Session screen, touch the Audio row.

Cancel	Start Session 🛛 🖌
Video	DVI1, CVBS
Audio	1/8″ Jack
Metadata	Recorded by {user},{now},
rtmp://	
	Start

This opens the Audio Source screen, where you select the Audio Input for the stream. The selections are:

1/8" Jack L+R	RCA L+R	XLR L+R
SDI 1-2	SDI 3-4	

2. On the Audio Source screen, select one audio input and select Apply.



**NOTE:** An Audio Peak Meter has been included in the Touch Panel Audio Source screen to provide visual confirmation that there is live audio feeding into the selected audio input.

### **Setting Up Metadata**

1. On the Start Session screen, touch the Metadata row.

Cancel	Start Session 🛛 👘
Video	DVI1, CVBS
Audio	SDI 1-2
Metadata	Recorded by {user},{now},
rtmp://	
	Start

This opens the Edit Metadata screen, where you can enter a Title, Description, and Duration for the recording session.

**NOTE:** The keywords {user} (username) and {now} (current date/time) are included as part of the metadata} to speed up creation of assets and to simplify and enrich the content included in the Metadata fields. Once recording starts, the name of the user and the current date will be included in the Title of the asset.

2. Begin by touching the Title row.



3. Enter a Title on the keypad, and select Done.





- 4. Next, touch the Description row.
- 5. Using the keypad, enter a Description and select Done.

Title		Plea	ase	ente	er a	title	e		
Descriptio	n	Plea	ase	ente	er a description				
Duration	60								
q v	v	e	r	t	У	u	i	o p	
а	s	d	f	g	h	j	k		
AB.	z	x	с	v	b	n	m	Del	
123		spa	ace		<-		->	Done	

6. Next, touch the Duration row. Duration is the length of time for the recording session.

When the Duration counts down to 0, recording will terminate automatically (you may stop the recording any time before that if desired).

 Touch the 123 key to switch to the numeric keypad, enter a numeric value (in minutes), and select Done.

Descriptio	n	Please enter a description								
Duration		60								
					-	_				
q w	/ (	e	r	t	<b>y</b> I	u	1	o P		
а	s	d	f	g	h	j	k			
AB.	z	x	с	v	b	n	m	Del		
123		spa			<-		->	Done		

**NOTE:** Only type in numeric values in the Duration field. (Do not type in alphabetic characters.)

8. On the Edit Metadata screen, select Apply.

Cancel	Edit Metadata 🛛 🏠
Title	Recorded by {user}
Description	{now}
Duration	60
-2	
	Apply

#### **Setting up RTMP Streaming**

You can configure the Viper to create Real Time Messaging Protocol (RTMP) streams from Transport streams in order to send those streams to Flash enabled media servers.

1. On the Start Session screen, touch the rtmp:// row.

Cancel	Start Session 🛛 🕋
Video	DVI1, CVBS
Audio	SDI 1-2
Metadata	Recording1,my first recor
rtmp://	



 On the Stream Setup screen, select either Stream 1 or Stream 2.



**NOTE:** You can stream to RTMP with the Primary source ("RTMP Stream 1") or both the Primary and Secondary ("RP Stream 2") sources. You cannot configure RTMP to work for just the Secondary source ("Stream 2").

 On the Stream # screen, fill in the FMS (Flash Media Server) or CDN (Content Distribution Network) RTMP endpoint URL.

Cancel	Stream 1 🛛 📸
FMS	Please enter FMS address
Stream Name	Please enter stream name
User	Please enter username
Password	Please enter password
	Apply

4. Next, fill in the stream name and your user name and password for the FMS or CDN RTMP server.

5. When you have completed the entries, select Apply.



6. On the Start Session screen, select Start.

DVI1, CVBS	
SDI 1-2	
Recording1,my first	recor
stream1	
	Start
	SDI 1-2 Recording1,my first

#### **Starting to Stream and Record**

**NOTE:** Streaming and Recording are independent actions which can be toggled ON-or-OFF regardless of the order in which they are used.

1. To start streaming to InStream, select Stream.



2. To start RTMP streaming, select the cloud icon.

**TIP:** The cloud icon appears next to the PIP button when RTMP is configured.

The Stream button and/or cloud icon turns blue to indicate that the appliance is actively streaming.





**TIP:** In order to monitor the stream, you can launch InStream from the Viper portal.

- 3. At any time, you can:
  - Select Stream to stop streaming to InStream.
  - Select the cloud icon to stop streaming to RTMP.

4. When you are satisfied with the streaming, select Record to start recording.

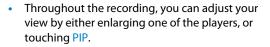


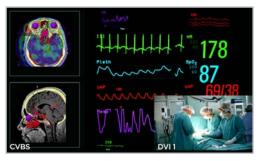
The Record button also turns blue to indicate that the appliance is actively recording, and the counter starts counting.



**TIP:** By default, the display shows an incrementing timer (as shown in the example above).

• To display the time remaining on the recording, tap the timer.









#### **Inserting Hotmarks**

While recording, you can select and insert Hotmarks to mark and store reference points in the recording. Hotmarks are typically used to create shortcuts to allow viewers to jump to predefined points in the video.

**NOTE:** Up to 14 Hotmarks (or keywords) may be defined for your user account. (For more information, see the Viper Administration Guide.)

1. When recording has started, select Hotmark to display the menu of available Hotmarks for your user account.



**NOTE:** The Hotmarks menu is only available when a recording is taking place.

2. From the Hotmarks menu, select a Hotmark to mark this point in the recording.

1 What 37			
Start	Stop	Suture	
Close	Pathology	Endoscopy	
Picture	Aspiration	Dr. John	
Sponge	Radiology	Close-Up	
Culture	Hip	Cancel	

- 3. To close the Hotmarks menu, select Cancel.
- 4. Repeat these steps to insert Hotmarks as required throughout the recording.
- 5. At any time, you can:
  - Select Done to manually stop the recording,
  - Select Record II to pause the recording, or
  - Re-select Record to resume the recording.

**TIP:** Selecting Cancel will stop the recording as well as delete the asset.

# Reviewing and Publishing from the Viper

When the recording is complete, if your Viper is configured for Automatic Publishing, the Viper will publish the asset. The Touch Panel will display a "Publishing Asset" progress bar.



By default, the Viper is configured for Automatic Publishing to the Viper. For information on configuring the Viper Publishing Method and Destination, please refer to the Viper Administration Guide: Chapter 4 under "General Configuration". The published asset will be made available for viewing on the Viper portal using InStream. For details, please refer to the Viper InStream User's Guide.

**IMPORTANT:** In order to maximize the performance of the appliance, we recommend that you only access Video On-Demand (VOD) assets (from InStream) when there is no ongoing recording.

#### **Browsing Assets**

1. On the Activities screen, touch Review & Publish.





The Browse Assets screen opens in Small (thumbnail) view (as shown in the following example).



**TIP:** To change your view, you can toggle the Small button to display the assets as larger thumbnails (shown below) or in List view.



#### **Sorting the List**

 To sort the Browse Assets list, you can toggle the Title button to switch the sort order between Title, Date, Duration, [Number of] Tracks, and Published.



#### **Searching for Assets**

You can search for assets using keywords in the Metadata entered for the asset (such as the Title, Description, or recording Date).

1. To search for assets, touch the Search field and the built-in keyboard will come up.



2. Type a keyword or phrase in the Search field.

As you start to type your keywords, the Search engine displays assets with metadata that begins with those letters. If you do not see the asset(s) you want, just keep typing and the results will dynamically update.

3. To clear the search, touch the X in the Search field.



#### **Reviewing Assets**

1. To review an asset, select it from the list (or select the Small or Large thumbnail) and touch the large thumbnail in the viewing pane (right side).



The asset then begins to play in the Review screen.

**NOTE:** The white circle on the thumbnail and the Publish button indicate that the asset is not yet published on the Viper.

The HVC button is present when HVC has been configured, and the USB button is present when a USB drive is connected to one the USB ports.

**TIP:** To move to a different part of the video(s), you can drag the scrub bar.



To enlarge the view to full screen, touch either video player.



• To enlarge an asset recorded as a single stream, simply touch the video player.



• In full screen view, you can also use the scrub bar to move to a different part of the video.



The scrub bar will automatically hide itself after a few seconds.



- To use the scrub bar again, touch the bottom of the screen. The scrub bar will re-appear.
- To return to normal view, touch the screen.



• To stop the video at any time, touch Stop.



• To start playing the video again, touch Play.



#### **Publishing Assets Manually**

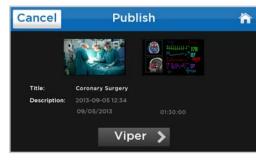
If your Viper has been configured in Manual Publishing mode, you will need to publish assets from the Touch Panel interface.

1. From the Browse Assets screen, select the asset to publish. You can select any asset.



**TIP:** Assets marked with a white dot (as shown in the example above) have not been published. By default, non-published assets are sorted first in the list.

2. Select the Viper button at the bottom of the screen to launch the publishing of the asset.



A new screen with a Publishing progress bar will appear.



Once it has reached 100%, the publishing is completed and you are returned to the Browse Assets screen.

## **Restarting the Viper**

To restart the Viper, follow these steps:

1. On the Activities screen, select Admin.





2. On the Admin screen, select Restart to restart the appliance.

version:	2.0.	2.0.0		
ethO:	10.5	10.5.1.2		
Guest	:	Export	Display	
Shutdown		Restart	HVC	

3. Touch Confirm when you see the Confirm Restart prompt.

Back	Admin Screen 🛛 🕋			
version:	2.0.0			
eth0:	10.5.1.2			
Guest	E	xport	Display	
Please Confirm Restart?				
Cancel Confirm				

## **Shutting Down the Viper**

To shut down the Viper, follow these steps:

1. On the Admin screen, select Shutdown to shut down the appliance.

Back	ļ	dmin Screen	ĥ
version:	2.0	.0	
eth0:	10.5	5.1.2	
Gues	st	Export	Display
Shutdo	own	Restart	HVC

2. Touch Confirm when you see the Confirm Shutdown prompt.

The Viper will shut down and power off.

# **Upgrading the Viper**

Software upgrades come in the form of a file with the extension . hai , which when loaded will replace the application on your Viper.

- Download the upgrade file from Haivision's Download Center at: <u>http://www.haivision.com/download-center/</u>.
- 2. Enter your email address and your password to log in. If you have not yet created an account, follow the link Create an Account at the bottom of the page.
- 3. Once logged in, click the following selector: Firmware Packages.
- 4. Select the Viper Package.
- Download the file to your computer. You should end up with a file with a name in the form: "vi per-2. 0. 0-xxxxx. hai ".
- 6. Once your download is completed, copy the file to a USB flash drive formatted as a FAT-32 partition.

**NOTE:** Do *not* change the file name. Also, use a USB flash drive that is at least 2GB in size with no other files on it.

- 7. Place the vi per-2. 0. 0-xxxxx. hai file at the root of the flash-drive directory structure.
- Once the flash drive is ready, plug it into the Viper's USB port, located to the left of the Touch Panel at the front of the device.
- 9. Log in as an admin user (see "Signing in to the Touch Panel Interface" on page 11).
- 10. On the Activities screen, touch Admin.





**11.** On the Admin screen, touch the version row.

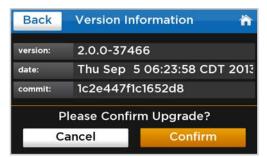
Back	Admin Screen 🛛 🟠		
version:	2.0.0		
eth0:	10.5.1.2		
Guest	E	kport	Display
Shutdow	n Re	estart	HVC

**NOTE:** On the Admin screen, take note of the release version displayed at the top of the image. It's a good idea to keep a written reference to confirm later that the upgrade took place.

12. On the Version Information screen, select USB.

Back	Version Information
version:	2.0.0-37466
date:	Thu Sep 5 06:23:58 CDT 2013
commit:	1c2e447f1c1652d8
	USB

13. Touch Confirm when you see the Confirm Upgrade prompt.



The Viper will look for the file located on the flash drive, unpack and install it automatically.

- 14. Depending on the size of the file, the upgrade sequence takes about 20 to 25 minutes. During this time, do *not* remove the flash drive from the USB port.
  - Once the upgrade is complete, the unit will reboot.
  - Once the reboot is completed, it takes about 2 minutes to start the Viper application.
- 15. Once the Viper is up and running and the "Touch Anywhere To Begin" screen is displayed, verify that the upgrade was successful by doing the following:
  - Log in as an admin user and go to the Admin screen to get a visual confirmation that the new version has been installed.
  - Compare the release version with the one you noted in <u>Step #11</u>.

### **For More Information**

Contact Haivision Technical Support via our Support Portal on our website at: http://www.haivision.com/support/

Or you may use the phone number or email address listed below:

North America:	Toll Free: 1-877-224-5445
International:	Tel: 1-514-334-5445 Fax: 1-514-334-0088
Technical Support email:	tickets@haivision.com
Product Information email:	info@haivision.com

You may download the software, Release Notes, and documentation (including the PDF version of this guide) through our Download Center at: http://www.haivision.com/download-center/





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