

## CDVR SDI Mini (2nd Gen) Quick Start Guide

### Connect DVR 4.8 SDI Mini 2



The Haivision Connect DVR multi-site solution enables you to stream time-shifted video from an originating site to remote venues. An integral part of the multi-site solution, the DVR SDI Mini appliance can accommodate synchronized dual-stream playout, preserving the large-scale theatrical experience (IMAG) from the main site to the remote venue with perfect synchronization. This latest generation allows you to stay connected at greater distances while still delivering top WiFi speeds for faster streaming.

This *Quick Start Guide* describes the steps required to install and setup the DVR SDI Mini appliance. See the [User's Guide](#) for further details on configuring the Connect DVR multi-site solution and using the appliance's web-based interface.

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- [Connecting to the Console UI Remotely](#)

Use the following guidelines when unsafe conditions exist or when potentially hazardous voltages are present:

- Always use caution and common sense.
- To reduce the risk of electrical shock, do not operate equipment with the cover removed.
- Repairs must be performed by qualified service personnel only.

Improper handling and/or installation practices of sensitive equipment may VOID the warranty.

**⚠ Caution**

When handling components, or when setting switch options, always use an antistatic wrist strap connected to a grounded equipment frame or chassis. *If a wrist strap is not available, periodically touch an unpainted metal surface on the equipment.* Never use a conductive tool, such as a screwdriver or a paper clip, to set switches.

## Waste Electrical and Electronic Equipment (WEEE) Disposal



In accordance with the European Union (EU) WEEE Directive, Haivision products that fall within the scope of the WEEE, are labeled with the above symbol, and customers are encouraged to responsibly recycle their equipment at the time of disposal. Haivision also offers its customers the option of returning Haivision equipment to facilitate its environmentally sound disposal.

For more information, please visit our website at: <https://www.haivision.com/environment>.

## Setting Up the Mini Device

To set up the device:

1. **⚠ Important**

If there is any shipping damage, contact your support representative for return instructions (see [Getting Help](#)).

2. **⚠ Caution**

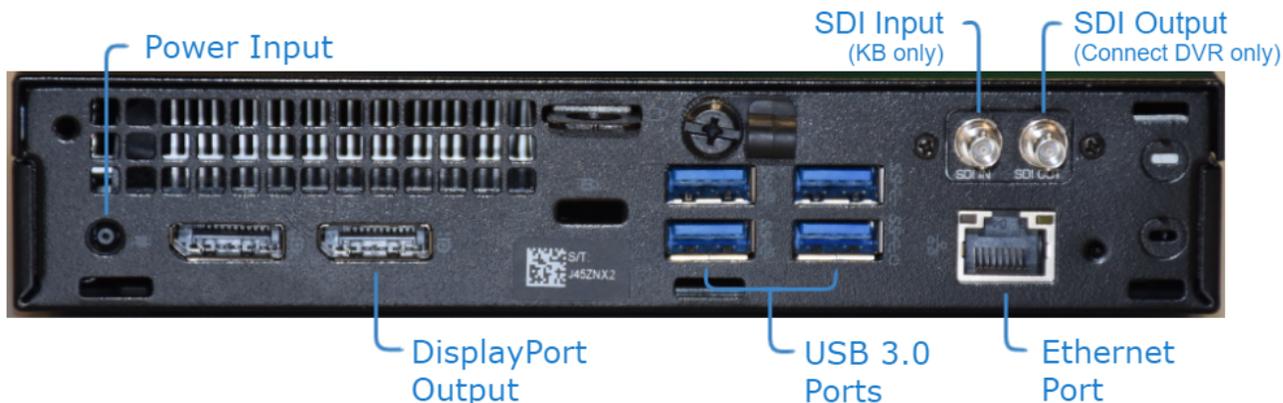
Insufficient air flow around the unit can cause it to overheat and perform erratically. To ensure proper air flow, allow plenty of room around the device's ventilation holes.

**✔ Tip**

Haivision offers adapter brackets to install your Mini in a server rack. See your Haivision representative or visit the [Haivision Store](#) for details.



3. On the back of the device, locate the Ethernet port and connect it to your network using an Ethernet cable (not included).



### Appliance Rear View

4. Screw the enclosed SDI adapter to the SDI Output port until secure and connect the other end to your SDI source.

**Note**

The SDI Input port is not used on the Haivision Connect DVR.

5. Plug the power adapter into the appliance Power Input power connection (12V).
6. By default, the SDI appliance is accessed via the Web user interface (WUI). If you will be accessing the Console UI directly from the device, you will need to:
  - Connect a monitor to the DisplayPort output.
  - Connect a USB keyboard to an available USB port (either on the front or back of the device).

**Note**

Alternatively, if you plan on accessing the device's Console UI remotely, see [Connecting to the Console UI Remotely](#) for instructions.

### Related Topics

- [Powering On the Mini Device](#)
- [Connecting to the Console UI Remotely](#)

## Powering On the Mini Device

To power the device:

1. **Important**

When powering ON and OFF the device, simply tap the power button. Do not hold down the button for an extended period as it will reset the device.



When the device finishes booting, it displays the Login screen for either the Console UI or the optional CentOS desktop depending upon your configuration.

**! Important**

Following the first boot, the device attempts to obtain an IP address from a DHCP server on your network. We recommend that you change to a static IP address before continuing with the setup. See [Changing Network Settings on the Mini](#).

**Related Topics**

- [Changing Network Settings on the Mini](#)

## Changing Network Settings on the Mini

During initial setup you may want to change some network settings such as servers, etc.

The Network Configuration settings allow you to specify the server hostname, DNS servers, NTP server, search domains, and the default interface. You can also configure advanced settings, such as static routes.

To configure the network:

1. Click the  icon and select **Administration**.
2. Click **System Settings** in the admin toolbar, and click **Network** in the sidebar.

3. Fill in the fields as appropriate. See the table below for more information.

**Haivision Connect DVR** Welcome Administrator (Sign Out)

Configuration | Access Control | **System Settings** | Reporting

Certificates  
Licensing  
**Network**  
Wifi AP  
Update

Save Settings Reboot

### Network Configuration

General

Hostname: cdvr.haivision.com

Default Interface: eno1

DNS Servers: 10.65.0.10, 10.65.0.11

Search Domains: haivision.com

NTP Server:

SNMP: OFF

Interfaces

eno1 | eno2 | **bond0** BOND INTERFACE: ADD REMOVE

Addressing:  None  Static  DHCP

IP Address \*:

Subnet Mask \*:

Gateway:

MTU:

Bonding Mode: Round Robin Sequential

Slave Interfaces:  eno1  eno2

Static Routes

All Actions +

Destination	Subnet Mask	Gateway	Interface
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4. To add a Static Route, see [Adding a Static Route](#).

5. Click **Save Settings**.
6. Click **Reboot** to have your network configuration changes take effect.

The following table lists the configurable network settings.

Setting	Description
<b>General</b>	
Hostname	The hostname to be assigned to the device. Specify the hostname as a FQDN, for example: <code>myserver.mycompany.com</code>
Default Interface	The default Ethernet interface is the first one.
DNS Servers	<p><i>(Optional)</i> The Internet Protocol version 4 (IPv4) addresses of the Domain Name Servers to use. If possible, we recommend using Google's public DNS servers (8.8.8.8 and 8.8.4.4).</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>! Important</b></p> <p>If you want the DNS Servers values populated by a DHCP server, you should delete any entries in these fields <i>before</i> clicking the <b>Saved Settings</b> button.</p> </div>
Search Domains	<p><i>(Optional)</i> The search strings to use when attempting to resolve domain names.</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>! Important</b></p> <p>If you want the Search Domains values populated by a DHCP server, you should delete any entries in these fields <i>before</i> clicking the <b>Saved Settings</b> button.</p> </div>
NTP Server	<p><i>(Optional)</i> If the Network Time Protocol (NTP) is enabled, enter the address of the NTP server. For example, <code>www.pool.ntp.org</code></p> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>! Important</b></p> <p>To accurately schedule, record, and play streams, use <a href="http://www.pool.ntp.org">www.pool.ntp.org</a> to synchronize the system clocks on the KB Encoder, Display Engine appliance, and the remote Mac/PC used to access the KB and Connect DVR user interfaces. This ensures that all of your peripherals match the Haivision Cloud DVR clock.</p> </div>
SNMP	Enable/Disable Simple Network Management Protocol (SNMP).
Read-Only Community	SNMP string to be used when making read-only information requests.
SNMP Trap Servers	IPv4 or FQDN of a server to send SNMP traps to.
<b>Interface</b>	
<interface_name>	<div style="border: 1px solid #ccc; padding: 5px;"> <p><b>i Note</b></p> <p>Network interface names vary depending on system configuration, such as <code>enp3s0/enp4s0</code>.</p> </div>
Addressing	<p>Choose whether the interface uses a static or dynamic IP address:</p> <ul style="list-style-type: none"> <li>• None — Select to disable the interface.</li> <li>• Static — Select to disable DHCP. When DHCP is disabled, you must manually enter the IP address, DNS server, subnet mask, and gateway.</li> <li>• DHCP — Select to enable DHCP. When DHCP is enabled, the device receives an IP address from a DHCP server on the network. The DNS server, subnet mask, and gateway are also populated by the DHCP server.</li> </ul>

Setting	Description
IP Address*	<p><b>Note</b></p> <p>If DHCP is disabled, you may enter an IP address in dotted-decimal format (e.g., 127.0.0.1).</p>
Subnet Mask*	<p><b>Note</b></p> <p>If DHCP is disabled, you may enter the Network Mask in dotted-decimal format (e.g., 255.255.0.0).</p>
Gateway*	<p><b>Note</b></p> <p>If DHCP is disabled, you may enter the gateway address in dotted-decimal format (e.g., 192.168.0.1).</p>
MTU	Maximum Transmission Unit. Specifies the maximum allowed size of IP packets for the outgoing data stream. Valid values are 228 to 1500.
MAC Address	(Read-only) The MAC address assigned to the interface. This is the physical address of the network interface and cannot be changed.
Link	Select the link negotiation settings for the interface, either Auto or Manual. If you select Manual, you can select the Speed and Duplex settings as described below.
Speed	If manual is chosen in the link negotiation settings, select the Ethernet speed (in Mbps): 10, 100, or 1000.
Duplex	If manual is chosen in the link negotiation settings, select the duplex mode: full or half.
<b>Static Routes</b>	
Destination	Each static route requires a destination.
Subnet Mask	<p><b>Note</b></p> <p>A static route cannot be created with a subnet mask of either 0.0.0.0 or 255.255.255.255.</p>
Gateway	See above definition.
Interface	The interface associated with the static route. Use the drop-down menu to make your selection.

- These values are automatically populated.

## Related Topics

- [Administration Screen](#)

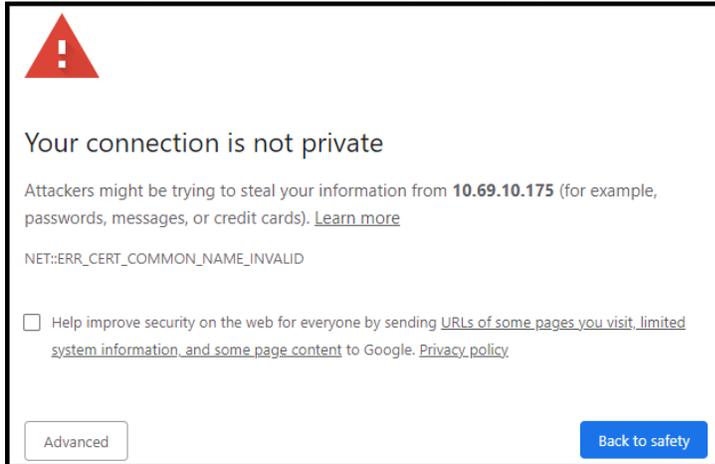
## Accessing the Web Interface on the Mini

To access the device's Web interface:

1. On another computer connected to the same network, open a Web browser.
2. Enter the device's assigned IP address. For example, if the IP Address is 10.5.1.4, enter a URL of https://10.5.1.4.
3. When a browser accesses the website, it requests a security certificate to confirm that the site is trusted.

The device ships with a self-signed SSL certificate key set which works with any configured server hostname. However, Web browsers do not consider self-signed certificates to be trusted, because they are not signed by a Certificate Authority. Consequently, when accessing the website with a

self-signed certificate, users see a security warning and are prompted for authorization as shown below. Responses may vary depending upon the browser used.

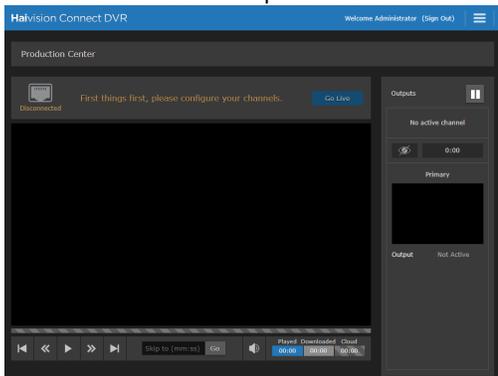


**Important**

Before proceeding or adding an exception for the site, check with your administrator on the correct response.

4. Sign in using one of the credentials provided on the *Important Notice* included with your device.

The web interface opens to the Production Center screen.



For step-by-step information on using the web interface, refer to the [Connect DVR User's Guide](#).

**Related Topics**

- [Changing Network Settings](#)

## Connecting to the Console UI Remotely

**! Important**

By default, you will usually access configuration settings from the Web UI. Accessing via the Console UI requires administrator privileges and password.

Connecting to the Console UI remotely requires a Secure Shell (SSH) client and the IP address of the device. If you'd prefer to connect to the Console UI directly, you will need a monitor, a USB keyboard, and possibly a mouse to connect to the device.

To access the Console UI using a secure shell:

1. Initiate a secure shell (SSH) connection to the IP address of the device using an SSH client (for example, PuTTY).
2. When prompted, sign in using the `hvrroot` username and password. Refer to the *Important Notice* document that accompanied your device for the default `hvrroot` password.

See [Using the Console UI](#) for details on the various tasks you can perform with the Console UI.

### Related Topics

- [Using the Console UI](#) in your User's Guide.

## Obtaining Documentation

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## Getting Help

<b>General Support</b>	<p>North America (Toll-Free) <b>1 (877) 224-5445</b></p> <p>International <b>1 (514) 334-5445</b></p> <p><i>and choose from the following:</i> Sales - 1, Cloud Services - 3, Support - 4</p>
<b>Managed Services</b>	U.S. and International 1 (512) 220-3463
<b>Fax</b>	1 (514) 334-0088
<b>Support Portal</b>	<a href="https://support.haivision.com">https://support.haivision.com</a>
<b>Product Information</b>	<a href="mailto:info@haivision.com">info@haivision.com</a>