

QUICK START GUIDE

Kraken™ Advanced Real-Time Video Transcoder

This Quick Start Guide summarizes the basic steps required to install and connect to your Kraken appliance and set up real-time stream-based transcoding. Please refer to the Kraken User's Guide or the online Help (available from the Web Interface) for more detailed information. You may download the User's Guide as well as the latest software and Release Notes through our Download Center at: <http://www.haivision.com/download-center/>

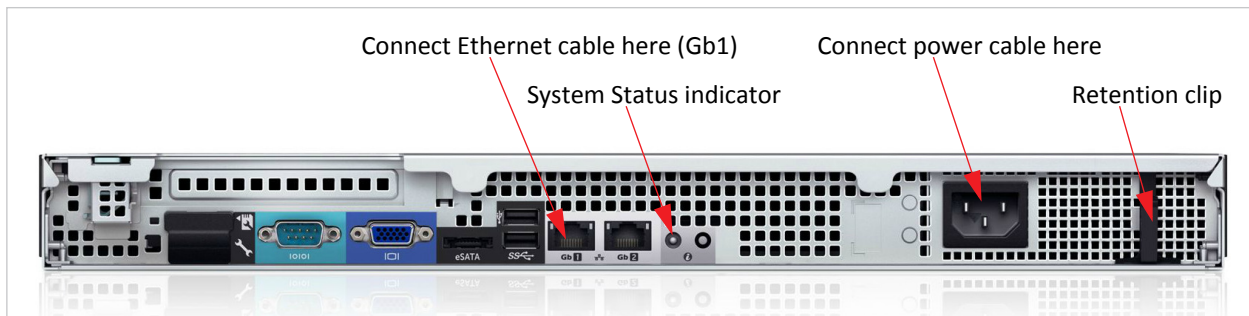
Also we recommend that you consult the server documentation provided in the box.

Physical Installation

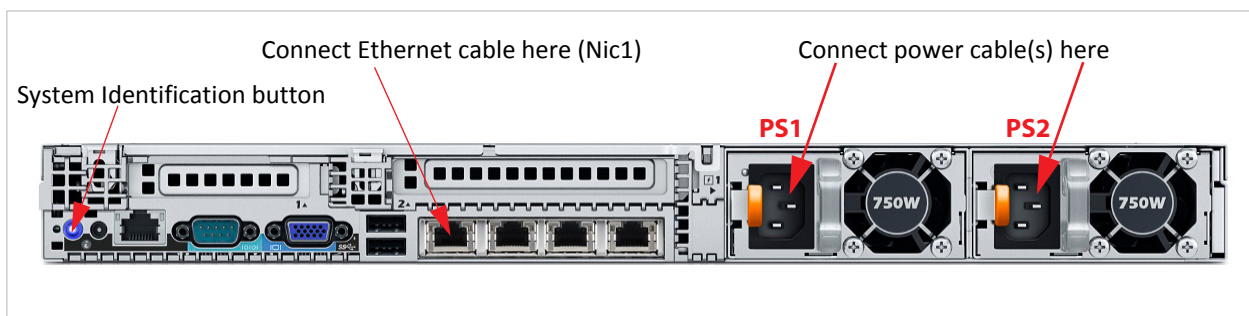
1. Unpack the box(es). [See Important Notice for list of contents.]
2. Visually inspect the package contents for any evidence of shipping damage.
3. Place the appliance(s) on a desktop or in a server rack.

When mounting in a server rack, please refer to your rack vendor's documentation as well as the included rack mount instructions in the rail kit provided with your appliance. Improper rack mounting could cause serious harm to equipment and serious injury to people near the rack. Please be sure to properly and securely mount your hardware!

4. Connect the Ethernet cable to Gb1 or Nic1 (Base and Ultra Systems shown below).
5. Connect the Power cable(s).

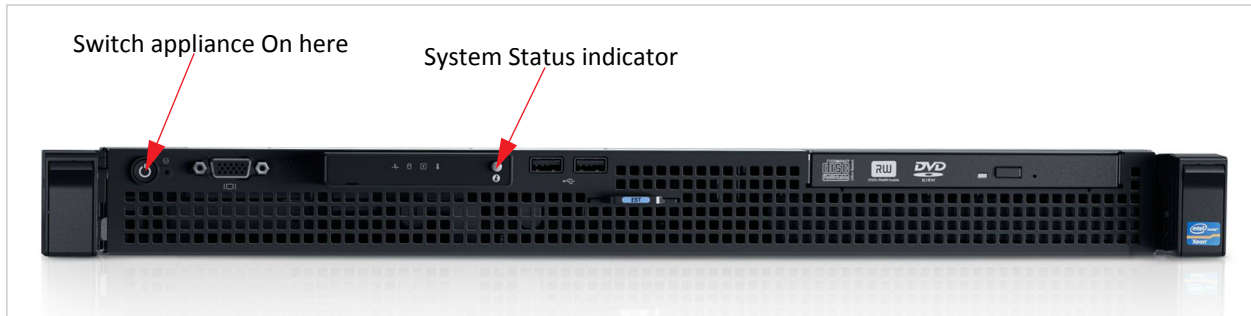


Kraken Back (Base System)



Kraken Back (Ultra System)

- Press the Power button (Base and Ultra Systems shown below).



Kraken Front (Base System)



Kraken Front (Ultra System)

Setting Up Transcoding on the Kraken

The Kraken comes pre-configured with the following settings:

IP Address	Subnet Mask	Gateway	Username	Password
10.5.1.2	255.255.0.0	10.5.1.1	haiadmin	manager

Logging In

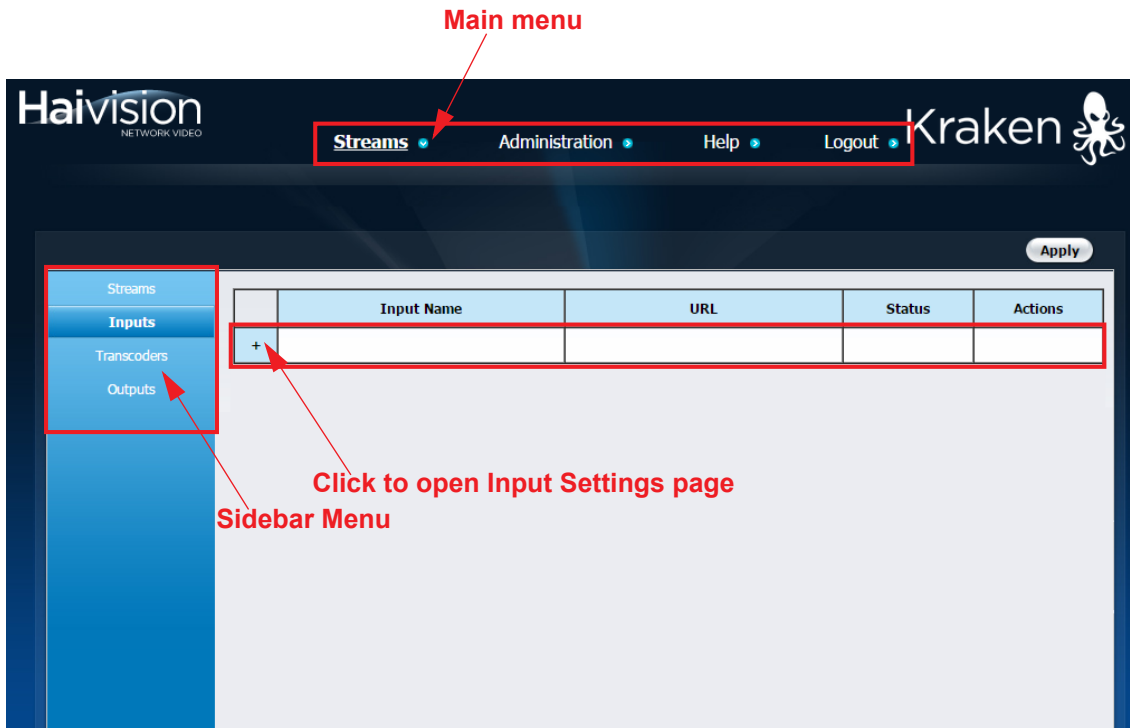
- Open a Web browser, type the IP Address for the Kraken into the URL address bar, and press Enter.
- Log in to the Kraken Web Interface, using the default username and password.

To set up transcoding, you need to define:

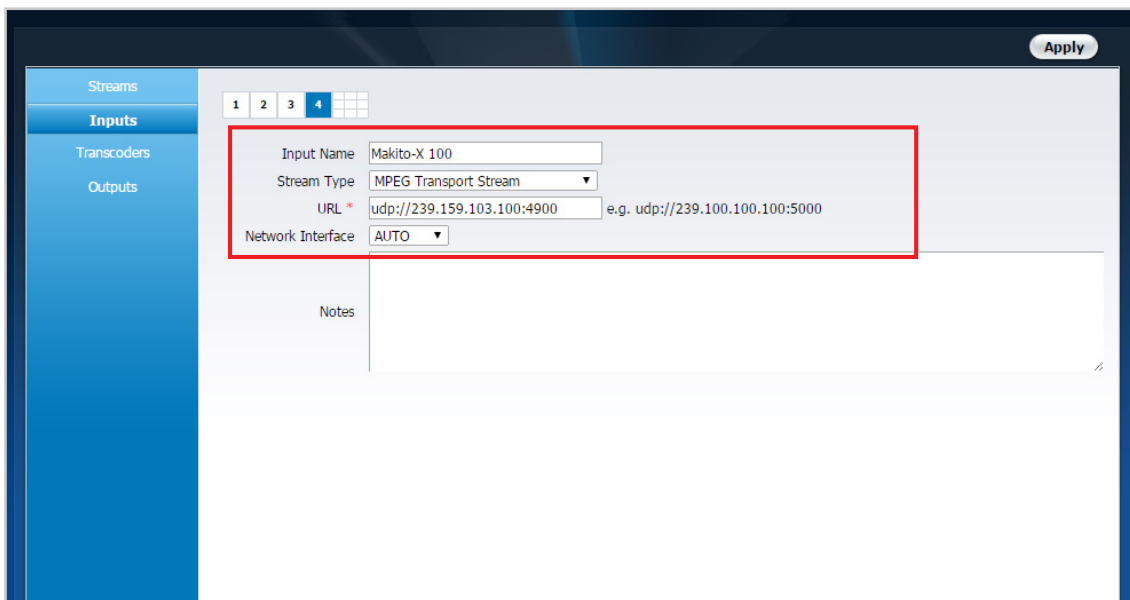
- “Inputs” – the source URL
- “Transcoders” – audio and video characteristics to change
- “Outputs” – one or more output URLs
- “Streams” – select from defined Inputs, Outputs, and Transcoders to set up transcoding

Defining Inputs

1. Click **STREAMS** from the main menu and then **INPUTS** from the sidebar menu to open the **INPUT OVERVIEW** page (shown below).



2. Click the plus sign (+) or anywhere in the row to open the **INPUT SETTINGS** page.
3. On the **INPUT SETTINGS** page (shown below), type in an Input Name and source URL for the Input.



4. Click **Apply**.

Defining Transcoders

1. Click [TRANSCODERS](#) from the sidebar menu and then click the plus sign (+) to open the [TRANSCODER SETTINGS](#) page (shown below).

The screenshot shows the 'Transcoder Settings' page. The sidebar on the left has 'Transcoders' selected. The main content area contains a form with the following fields and options:

- Transcoder Name: HEVC 720
- Video Type: H.265(HEVC)
- Resolution: W:1280 X H:720 (e.g. 1024 x 768)
- Metadata: Check this box to pass through KLV data
- Frame Rate: Auto (Select the desired output frame rate in fps. e.g. 30)
- GOP Size: (e.g. 30)
- B-Frames: (dropdown menu)
- Video Bitrate: (e.g. 1024) (bitrate in kbps)
- Audio: Check this box to enable audio on the outbound stream
- Audio Bitrate: (e.g. 128) (bitrate in kbps)
- Transport Stream Shaping: Check this box to enable Transport Stream Shaping
- Output Pacing: Check this box to enable Output Pacing
- Output Pacing Buffering Interval: 100 ms

An 'Apply' button is located in the top right corner of the form area.

2. Type in a Transcoder Name.
3. Select or enter any values to change in the outbound stream, for example, the Video Bitrate or Resolution.
4. To pass through KLV data, check the Metadata checkbox.
5. To enable audio on the outbound stream, check the Audio checkbox.



NOTE Any field left blank or unchanged in the Transcoders section will leave that property of the source stream intact in the outbound stream.

6. Click **Apply**.

Defining Outputs

1. Click **OUTPUTS** from the sidebar menu and then click the plus sign (+) to open the **OUTPUT SETTINGS** page (shown below).

The screenshot shows the 'OUTPUT SETTINGS' page. The sidebar on the left has 'Outputs' selected. The top navigation bar has an 'Apply' button and a grid of tabs (1, 2, 3, 4, +). The main form area is highlighted with a red box and contains the following fields:

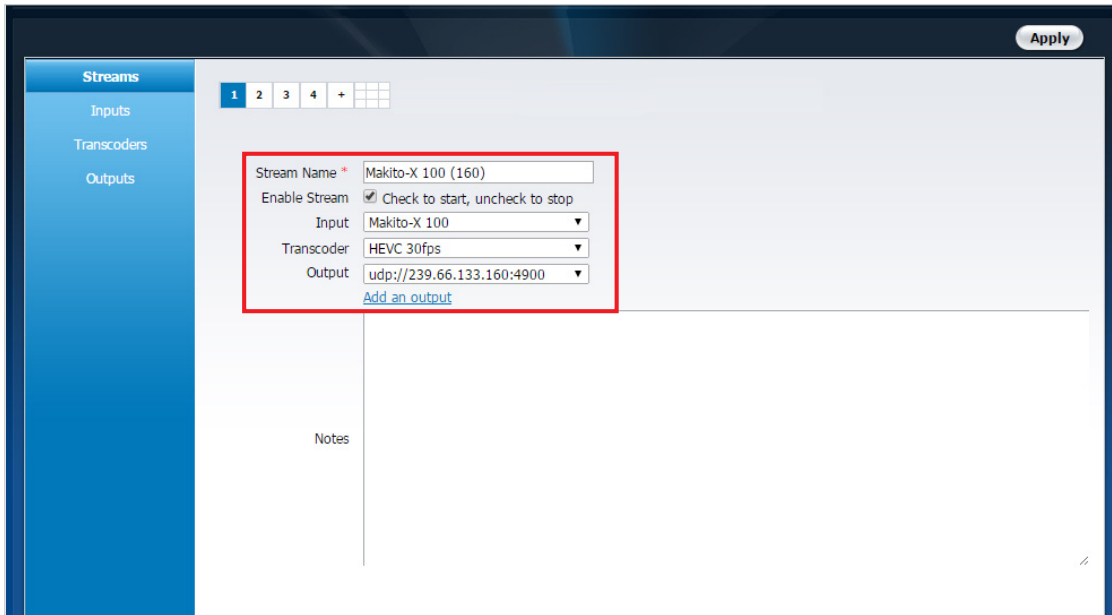
Output Name	Makito Output 2	Transmit SAP	<input type="checkbox"/>
URL *	udp://239.66.133.136:4900	SAP IP	224.2.127.254
	e.g. udp://239.100.100.100:4900	SAP Port	9875
Network Interface	AUTO	Session Name	
MTU		Session Description	
	e.g. 1408	Keywords	
TTL		Author	
	e.g. 16		
ToS			
	e.g. 128		

Below the form is a 'Notes' section with a vertical line and a small icon at the bottom right.

2. Type in an Output Name and output URL, for example, `udp://239.100.100.100:4900`.
3. To modify the MTU (Maximum Transmission Unit) size, TTL (Time-to Live for stream packets), or To (Type of Service) values, type these in.
4. Click **Apply**.

Defining Streams

1. Click **STREAMS** from the sidebar menu and then click the plus sign (+) to open the **STREAM SETTINGS** page (shown below).



The screenshot shows the 'Stream Settings' page in the Haivision interface. The sidebar on the left has 'Streams' selected. The main area contains a form for defining a stream. The form fields are: Stream Name (Makito-X 100 (160)), Enable Stream (checked), Input (Makito-X 100), Transcoder (HEVC 30fps), and Output (udp://239.66.133.160:4900). A red box highlights the Stream Name, Enable Stream, Input, Transcoder, and Output fields. Below the form is a 'Notes' section. An 'Apply' button is visible in the top right corner of the form area.

2. Type in a Stream Name.
3. Check the Enable Stream checkbox to start the stream.
4. From the drop-down lists, select an Input, Transcoder, and one or more Output(s) for the stream.
5. Click **Apply**.

The Kraken takes the source URL, re-encodes the audio/video, and sends it out as a new stream with different encoding characteristics.

For More Information

Contact Haivision Technical Support via our Support Portal on our website at: <http://www.haivision.com/support-portal-home>

Or you may use the phone numbers or email addresses listed below:

North America:	Toll Free: 1.877.224.5445 (option 4)
International:	Tel: 1-514-334-5445 (option 4) Fax: 1-514-334-0088
Technical Support email:	tickets@haivision.com
Product Information email:	info@haivision.com

You may download the latest software, Release Notes and other relevant documentation through our Download Center at: <http://www.haivision.com/download-center/>