

# Furnace

SECURE IP VIDEO SYSTEM

# Haivision



**Live Streaming, Playback and VOD** The Furnace™ IP video system provides a complete end-to-end infrastructure for delivering secure video to every desktop and display. Viewing live and recorded channels as well as on-demand content is provided for the desktop through the patented “zero install” InStream™ player, and to fixed monitors and displays through the Stingray™ set-top box. With fine grain control of all viewers and displays, Furnace is ideal for managing and distributing enterprise video securely, for establishing HD signage throughout a facility, for providing on-demand material, and for capturing, organizing, and reviewing events and digital assets.

**End-to-End Secure System** Furnace provides an easy-to-use, simple-to-deploy, end-to-end platform uniting media streams from the encoder through to the viewing device and is unique in providing AES encryption over multicast and full administrative control. Each user’s viewing experience is tailored based on their authentication. With its Command and Control module, administrators have full control over all InStream desktop players and Stingray set-top boxes, along with the ability to set or modify each viewer’s experience either, “on-the-fly” or based on a preset schedule.

**InStream Player** Furnace delivers multi-stream media content through the InStream Furnace player, a fully secure “Software on Demand” player available freely to all users. It offers the most advanced MPEG compliant viewer experience in the industry for both live and on demand viewing. InStream Furnace is a multi-format player (H.264, MPEG-2, legacy MPEG-4) that supports full video resolution from CIF to HD 1080p60. Unifying the viewing experience across all platforms, InStream is browser-independent and requires no installation, assuring the lowest IT support for any organization. As it maintains a client/server relationship with the Furnace system, it provides maximum administrative control and reporting. The player is 100% secure, supporting the Furnace’s end-to-end implementation of AES encryption and supports Forward Error Correction (FEC) for the best possible performance on unreliable networks. InStream Furnace features a full electronic program guide (EPG), Command and Control for centralized player management, Conditional Access for secure user access, extremely powerful for multi-stream monitoring and review, up to 64 viewing panes within each player instance, local recording, and TalkBack™ to transmit audio from the player directly to the source encoders. InStream Furnace is also the native viewer on Haivision’s Stingray™ set-top boxes.

## Product Features

## Product Benefits

<b>End-to-end AES encryption</b>	100% secure IP video streaming for content protection
<b>“Zero Install” InStream player</b>	Minimizes burden on IT - no endpoint software to install - no upgrades
<b>Cross-platform player</b>	Users with Mac, Windows, or Linux can watch video simply with any web browser
<b>User authentication</b>	Provides security and a customized user experience
<b>Detailed reporting</b>	Capture detailed user data - who watched what, when, and how
<b>Integration with LMS systems</b>	Seamless integration with Blackboard and Moodle Learning Management Systems
<b>Command &amp; Control</b>	Central control for all viewers, such as turning on/off all players, sending emergency messaging, and more

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FURNACE BASE (1RU)	FURNACE ADVANCED (2RU)	FURNACE NVR (2RU)
<p><b>Management Interfaces:</b> Furnace Portal Server</p> <p><b>Features:</b> Up to 150 Mbps VOD AES encryption on delivered streams Usage reporting Highly scalable storage options Scheduled network video recording (optional)</p> <p><b>Inputs:</b> MPEG-2 transport stream</p> <p><b>Video:</b> SD/HD MPEG 1, 2, 4, H.264</p> <p><b>Audio:</b> MPEG-1 Layer II MP3 MPEG-2/MPEG-4 AAC</p> <p><b>Outputs:</b> Multicast/unicast AES encrypted Compliant transport streams</p> <p><b>Platform:</b> Secure Linux based OS</p> <p><b>Hardware Platform:</b> Haivision optimized server platform (2RU) Up to 10 TB per system Network Interface: 4 port 10/100/1000BaseT Ethernet</p>	<p><b>Management Interfaces:</b> Furnace Portal Server</p> <p><b>Features:</b> Up to 300 Mbps VOD AES encryption on delivered Streams Usage reporting Highly scalable storage options Scheduled network video recording (optional)</p> <p><b>Inputs:</b> MPEG-2 transport stream</p> <p><b>Video:</b> SD/HD MPEG 1, 2, 4, H.264</p> <p><b>Audio:</b> MPEG-1 Layer II MP3 MPEG-2/MPEG-4 AAC</p> <p><b>Outputs:</b> Multicast/unicast AES encrypted Compliant transport streams</p> <p><b>Platform:</b> Secure Linux based OS</p> <p><b>Hardware Platform:</b> Haivision optimized server platform (3RU) Up to 10 TB per system Network Interface: 4 port 10/100/1000BaseT Ethernet</p>	<p><b>Management Interfaces:</b> Furnace Portal Server NVR RESTful (REST)</p> <p><b>Features:</b> API-enabled control On demand recording Pause/resume recording HotMarks insertion with annotations Up to 20 SD or 6 HD channels per system Publishing to VF Media Server API-enabled control On demand recording Pause/resume recording</p> <p><b>Inputs:</b> MPEG-2 transport stream</p> <p><b>Video:</b> SD/HD MPEG 1, 2, 4, H.264</p> <p><b>Audio:</b> MPEG-1 Layer II MP3 MPEG-2/MPEG-4 AAC</p> <p><b>Outputs:</b> Multicast/unicast AES encrypted Compliant transport streams</p> <p><b>Platform:</b> Secure Linux based OS</p> <p><b>Hardware Platform:</b> Haivision optimized server platform (2RU) Minimum 1.6 TB high-performance RAID storage for recording cache Network Interface: 4 port 10/100/1000BaseT Ethernet</p>
<p><b>1RU (DELL R610)</b></p> <p><b>Height:</b> 42.6mm (1.68")</p> <p><b>Width:</b> 482.4mm (18.99") (includes rack latches)</p> <p><b>Depth:</b> 772mm (30.39") (includes PSU handles and bezel)</p> <p><b>Weight (maximum config):</b> 17.69kg (39lbs)</p>	<p><b>2RU (DELL R710)</b></p> <p><b>Height:</b> 86.4mm (3.40")</p> <p><b>Width:</b> 443.1mm (17.44")</p> <p><b>Depth:</b> 680.7mm (26.80")</p> <p><b>Weight (maximum config):</b> 26.1kg (57.54lb)</p>	



**Furnace Product Portfolio & Ordering Information \*\***

<b>Furnace Base</b>	<b>S(W)-VFBx</b>	Furnace Base (single appliance) systems, available for live only or with up to 100 Mbps of VOD
<b>Furnace Advanced</b>	<b>S(W)-VFADVx</b>	Furnace Advanced (dual appliance) systems, available for live or with up to 300 Mbps of VOD, available with Conditional Access
<b>Furnace CA</b>	<b>SWO-VF-CA</b>	Support of User Authentication and Conditional Access through integration with LDAP or Active Directory
<b>Furnace NVR</b>	<b>S-VF-NVRC-x</b>	Furnace Network Video Recording (NVR) server, available for 20 SD or 6 HD channel capacity
<b>Stingray STB</b>	<b>S-VF-STING</b>	Furnace Stingray set-top box - MPEG 1/2/4 and H.264 SD, HD, & XGA. InStream viewer and program guide support. HDMI, Component, Composite outputs