Haivision

Secure IP Video System

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**

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

FURNACE BASE (1RU)

Management Interfaces:
  Furnace Portal Server
Features:
  Up to 150 Mbps VOD
  AES encryption on delivered streams
  Usage reporting
  Highly scalable storage options
  Scheduled network video recording (optional)
Inputs:
  MPEG-2 transport stream
Video:
  SD/HD MPEG 1, 2, 4, H.264
Audio:
  MPEG-1 Layer II
  MP3
  MPEG-2/MPEG-4 AAC
Outputs:
  Multicast/unicast
  AES encrypted
  Compliant transport streams
Platform:
  Secure Linux based OS
Hardware Platform:
  Haivision optimized server platform (2RU)
  Up to 10 TB per system
  Network Interface: 4 port 10/100/1000BaseT Ethernet

1RU (DELL R610)

Height:
  42.6mm (1.68")
Width:
  482.4mm (18.99") (includes rack latches)
Depth:
  772mm (30.39") (includes PSU handles and bezel)
Weight (maximum config):
  17.69kg (39lbs)

FURNACE ADVANCED (2RU)

Management Interfaces:
  Furnace Portal Server
Features:
  Up to 300 Mbps VOD
  AES encryption on delivered Streams
  Usage reporting
  Highly scalable storage options
  Scheduled network video recording (optional)
Inputs:
  MPEG-2 transport stream
Video:
  SD/HD MPEG 1, 2, 4, H.264
Audio:
  MPEG-1 Layer II
  MP3
  MPEG-2/MPEG-4 AAC
Outputs:
  Multicast/unicast
  AES encrypted
  Compliant transport streams
Platform:
  Secure Linux based OS
Hardware Platform:
  Haivision optimized server platform (3RU)
  Up to 10 TB per system
  Network Interface: 4 port 10/100/1000BaseT Ethernet

2RU (DELL R710)

Height:
  86.4mm (3.40")
Width:
  443.1mm (17.44")
Depth:
  680.7mm (26.80")
Weight (maximum config):
  26.1kg (57.54lb)

FURNACE NVR (2RU)

Management Interfaces:
  Furnace Portal Server
  NVR RESTful (REST)
Features:
  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
Inputs:
  MPEG-2 transport stream
Video:
  SD/HD MPEG 1, 2, 4, H.264
Audio:
  MPEG-1 Layer II
  MP3
  MPEG-2/MPEG-4 AAC
Outputs:
  Multicast/unicast
  AES encrypted
  Compliant transport streams
Platform:
  Secure Linux based OS
Hardware Platform:
  Haivision optimized server platform (2RU)
  Minimum 1.6 TB high-performance RAID storage
  for recording cache
  Network Interface: 4 port 10/100/1000BaseT Ethernet

Furnace Product Portfolio & Ordering Information **

Furnace Base	S(W)-VFBx	Furnace Base (single appliance) systems, available for live only or with up to 100 Mbps of VOD
Furnace Advanced	S(W)-VFADVx	Furnace Advanced (dual appliance) systems, available for live or with up to 300 Mbps of VOD, available with Conditional Access
Furnace CA	SWO-VF-CA	Support of User Authentication and Conditional Access through integration with LDAP or Active Directory
Furnace NVR	S-VF-NVRC-x	Furnace Network Video Recording (NVR) server, available for 20 SD or 6 HD channel capacity
Stingray STB	S-VF-STING	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

** For complete pricing and ordering, contact us at sales@haivision.com or your certified Haivision reseller.