

Haivision Network Video ([www.haivision.com](http://www.haivision.com)) is a world leader in delivering the most advanced video networking technology and IP video distribution solutions. Haivision has specific expertise in catering to the education, medical, government/military, and enterprise markets, with unparalleled technologies for telepresence.

Haivision develops cutting-edge encoding and IP video distribution technology and focuses on the performance application of video compression technology. HaiVision products adhere to industry standards such as H.264 and high definition, offering the best quality, the lowest latency and the highest levels of security. By offering end-to-end solutions, Haivision delivers performance and reliability from the content source through to viewing endpoints: to interactive telepresence-style suites, boardrooms, and conference theaters with the lowest latency, to set top boxes for coordinated low cost media delivery, and to desktops throughout an organization.

Haivision products offer Secure Access with up to 256 bit AES encryption, Forward Error Correction and Multi-resolution: HD, SD, CIF or WXGA. With H.264 compression clients can achieve over 60% bandwidth savings against traditional MPEG-2 applications. Video Furnace IP video distribution system features HiLo-Streaming where the encoders with HiLo can simultaneously emit full bandwidth high resolution streams and low bandwidth "reduced resolution" streams.



## Fastest Video on the Planet

### MPEG-4 AVC/H.264

**Mako-HD** - Defining a new era of video communications where latency is imperceptible and full motion image quality is pristine. Supports up to 1080p high definition, full frame rate with 70ms of end to end latency. Video bit rates from 1Mbps to 10Mbps. SIP "Invitation" firmware for interoperability with standard video conferencing environments via codec - MCU/Bridge. The MAKO-HD is unlike traditional video conferencing codecs. The MAKO-HD supports full frame rate, high definition video, critical when any scene motion is introduced. The MAKO-HD provides 100% fluid results.

**Hai1000** - HaiVision's flagship product delivering extreme low latency multi-stream performance for the world's leading telepresence, virtual classroom, and medical systems.

**Makito** - Supporting H.264 encoding at up to 1080p60 and in an affordable, compact form factor, MAKITO revolutionizes video-over-IP by enabling HD to be distributed throughout organizations without reservation. At a fraction of the price and significant performance advantage over competing technology, the MAKITO is ideal for multi-channel enterprise IPTV delivery, for HD signage deployments, and for mass HD distribution/record environments such as medical facilities and professional training and simulation environments. The Makito has the ability to deliver multiple streams at different resolutions and bitrates to multiple destinations.

**Barracuda** - Delivers high performance H.264 encoding in a uniquely compact form factor offering the ability to deliver multiple streams at different resolutions and bitrates to multiple destinations. The BARRACUDA also supports both forward error correction and encryption, making it a perfect fit within HaiVision's Video Furnace System 5 end-to-end H.264 IP video solution.

**Video Furnace** - Video Furnace is a complete video-over-IP system. Supporting H.264 at HD and SD resolutions, Haivision's Video Furnace provides a secure by using powerful AES encryption, easy to use, and simple to deploy end-to-end system for encoding and distributing live video to computers and set top boxes, for creating scheduled playback channels for enterprise TV and signage, as well as recording content and delivering video on demand.

### The "Zero Footprint" InStream™ Player

Unique to the Furnace system is the InStream™ player technology. InStream™ is the industry's only client/server based, fully MPEG compliant, desktop and set top box viewing technology. InStream™ is not browser based, but can be accessed through any browser. InStream™ is platform independent allowing it to run on Windows, Mac, Linux, or Sun Solaris 10 systems. When a user requests to view video, the Furnace Portal Manager sends the compact, highly optimized InStream™ player to the user's computer providing a feature rich video viewing environment.

## Mako HD - (H.264 MPEG-4 AVC)

B-1000-HDED –	MAKO-HD - HD Encoder/Decoder Blade - HD-SDI w/ AES/EBU and YPbPr/RGBHV w/ 4 Channel Analog Audio - 720p/1080i/1080p [Encoder or Decoder only blades available]
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## hai1000 Series (H.264 MPEG-4 AVC)

F-1060-AC –	hai1060 6 slots chassis with CPU & IP Ethernet Network Interface Blade (AC Power Supply)
F-1060-DC –	hai1060 6 slots chassis with CPU & IP Ethernet Network Interface Blade (DC Power Supply)
F-1020 –	hai1020 2 slots chassis with CPU & IP Ethernet Network Interface Blade (AC Power Supply)
F-1020-MED –	hai1020 2 slots chassis - with CPU & IP Ethernet Network Interface Blade (AC Medical Grade Power Supply).
B-1000-HM4EDF –	HMF2 Encoder/Decoder Blade (HM4ED-F) - Analog S-Video and Composite Video, 4 Channel Audio [Encoder or Decoder only blades available]

## haiPlay Software

SW-HPLAY –	haiPLAY - stand alone multi window, multi-format soft player software for Windows platform, includes decoders for MPEG-2, H.264, and xGA data streams
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## Makito - Compact HD H.264 IP Video Encoders

S-290E-DVI –	MAKITO Encoder Appliance - HD/SD H.264 IP Video Encoder - Component Analog (Y,Pb,Pr/RGBHV) and Digital Video (DVI) input over DVI-I; up to 1080p60 HD Video or 1280 x 1024 60Hz computer; 150 kbps to 15 Mbps; 2ch analog audio input; 10/100/1000 Ethernet; 5VDC w/90-240 VAC External Power with Locking Connector.
S-290E-HDSDI –	MAKITO SDI Encoder Appliance - HD/SD H.264 IP Video Encoder - 3GSDI, HDSDI, SDI, Composite, S-Video input; up to 1080p60 HD Video; 150 kbps to 15 Mbps; 2ch. Embedded AES digital or analog audio input; 10/100/1000 Ethernet; 5VDC w/ 90-240 VAC External Power with Locking Connector.
B290D-SDI-S –	MAKITO Encoder Blade - HD/SD H.264 IP Video Encoder - Component Analog (Y,Pb,Pr/RGBHV) and Digital Video (DVI) input over DVI-I; up to 1080p60 HD Video or 1280 x 1024 60Hz computer; 150 kbps to 15 Mbps; 2ch analog audio input; 10/100/1000 Ethernet; chassis required.
B290E-DVI-S –	MAKITO EncoderDual Height Blade w/Serial Port - HD/SD H.264 IP Video Encoder - Component Analog (Y,Pb,Pr/RGBHV) and Digital Video (DVI) input over DVI-I; up to 1080p60 HD Video or 1280 x 1024 60Hz computer; 150 kbps to 15 Mbps; 2ch analog audio input; 10/100/1000 Ethernet; chassis required.
S290E-HDSDI –	MAKITO SDI Encoder Blade - HD/SD H.264 IP Video Encoder - 3GSDI, HDSDI, SDI, Composite, S-Video input; up to 1080p60 HD Video; 150 kbps to 15 Mbps; 2ch. Embedded AES digital or analog audio input; 10/100/1000 Ethernet; chassis required.

## Barracuda - Compact SD H.264 IP Video Encoders

S-280E-SDI –	BARRACUDA Encoder Appliance - SD H.264 IP Video Encoder - SDI, Composite, S-Video, and Audio input; 150 kbps to 8 Mbps; 10/100/1000 Ethernet; 5VDC w/ 90-240 VAC External Power with Locking Connector.
B-280E-SDI –	BARRACUDA Encoder Blade - SD H.264 IP Video Encoder - SDI, Composite, S-Video, and Audio input; 150 kbps to 8 Mbps; 10/100/1000 Ethernet; chassis required

## Makito/Barracuda - Chassis

F-280-21DPS –	MB21 - Makito/Barracuda 21 Slot Chassis - Rackmount 4 RU Chassis for up to 21 MAKITO / BARRACUDA mini-blades, dual AC power supply, 90-132V and 180-240VAC, 47Hz-63Hz, 400 Watt max.
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## Video Furnace Systems - Base Furnace Video Over IP System (Single Server)

S-VFBASE –	Furnace Base Live System 20/0/0 - InStream Portal Server; 20 Live, 0 Playback, 0 Mbps VOD capacity. 1U Server, 250 GB RAID.
S-VFB-CH –	Furnace Base System with Playback 20/10/0 - InStream Portal Server, Playback Manager. 20 Live, 10 Playback, 0 Mbps VOD capacity. 2U Server, 2 TB RAID.
S-VFB-50 –	Furnace Base System with Playback & VOD 20/10/50 - InStream Portal Server, Playback Manager, Media Server (50Mbps). 20 Live, 10 Playback, 50 Mbps VOD capacity. 2U Server, 2.5 TB RAID.
S-VFB-100 –	Furnace Base System with Playback & VOD 20/10/100 - InStream Portal Server, Playback Manager, Media Server (100Mbps). 20 Live, 10 Playback, 100 Mbps VOD capacity. 2U Server, 2.5 TB RAID.

Advanced Furnace Video Over IP System with Dual Server up to 300Mbps also available.

## Video Furnace Systems - Stream Management, NVR & STB's

S-VF-TMX –	Furnace Transmux System - Necessary for external video streams (not Live Furnace streams). Each stream licensed with the "Expansion Stream" line item separately. Up to 20 Streams per System. 1U Server.
SWO-VF-NVRS-B –	Furnace Scheduled NVR Module for Base VF Systems - NVRS- Support for scheduled recording directly to asset library, 1 channel of SD/HD. Software module for a Base Media Server or Playback Manager system.
SWO-VF-NVRS-ADV –	Furnace Scheduled NVR Module for Advanced VF Systems - NVRS- Support for scheduled recording directly to asset library, 3 channels of SD/HD. Software module for an Advanced Media Server or Playback Manager system.
S-VF-STING –	Furnace STINGRAY 2 Set Top Box (Small Form Factor) - MPEG 1/2/4 & H.264 SD, HD, & XGA. InStream Viewer and Program Guide Support. HDMI, Component, Composite, Outputs, dual network cards for WAN.
S-VF-STB –	Furnace STINGRAY Set Top Box - MPEG 1/2/4 & H.264 SD, HD, & WXGA. InStream Viewer and Program Guide Support. Composite, S-Video, and Component (optional cable required) Outputs.