

## High-performance media encoding and delivery.



Until now, broadcasters and enterprises have had to make significant investments in fragmented systems for high-performance media encoding and delivery. Now, all of that has changed. With Helix Broadcaster, organizations get everything they need in one unified system at a price that makes it all possible.

Helix Broadcaster is an affordable way to encode and deliver the highest-quality live and on-demand media with outstanding performance for IPTV, OTT and more. Using leading-edge technology, this system allows for extremely low latency, high content security and efficient content distribution to help organizations be competitive.

Helix Broadcaster is brought to you from RealNetworks, the company that pioneered streaming media. This culture of innovation is demonstrated in the system's advanced capabilities. With multi-layered digital rights management (DRM), live cloud encoding and live repackitization, organizations can efficiently respond to a changing media landscape.

### Benefits

- Encode and deliver live and on-demand
- Provide outstanding quality and performance
- Improve content security
- Increase efficiency of content distribution
- Support IPTV, OTT and more
- Benefit from extremely low latency
- Reduce your investment

### Features

#### Low latency live

Benefit from a low latency that meets or exceeds industry standards.

#### Live cloud encoding

Encode content directly from the cloud to reduce hardware requirements.

#### DRM protection

Utilize multi-vendor DRM to encrypt content, URL protection to help prevent unauthorized sharing and session security to control sessions.

#### Content distribution architecture

Efficiently deliver live and on-demand media with live splitting, VOD caching, forward error correction (FEC), UDP resends and multicasting.

#### Live repackitization

Pass content through Helix Broadcaster without transcoding.

#### Scalable encoding

Encode up to 100 HD channels and 400 SD channels from a single appliance.

#### Easy integration

Connect to any streaming architecture and support diverse sets of live ingest and on-demand content then deliver to multiple devices. A complete set of APIs provides easy integration with custom applications.

## Helix Broadcaster Series Comparison

Helix Broadcaster is sold in a range of models from Series 100 through Series 600 to support a wide variety of broadcasting requirements and budgets.

		Series 100	Series 200	Series 300	Series 400	Series 500	Series 600 (Blade)
<b>Form Factor</b>		Portable Unit	1RU	3RU	3RU	1RU	4RU (10 blades)*
<b>No. Output Channels</b>	<b>HD 1080p</b>	2	2	4	10	20	100*
	<b>HD 720p</b>	4	4	8	20	40	200*
	<b>SD 480p</b>	8	8	16	40	80	400*
	<b>SD 360p</b>	12	12	24	60	120	600*
	<b>SD 240p</b>	16	16	32	80	160	800*
<b>Input Boards</b>		1	1	4	4	2	1

\* Dependent upon number of blades used.

## Technical Specifications

<b>Inputs</b>	Video	SDI, HD-SDI w/ genlock, HDMI, DVB-C, Digital QAM(Annex A,B,C), DVB-S/S2, DVB-T, DVB-ASI, 8VSB(SMPTE 310), Analog (component/composite)
	Audio	SDI Embedded, AC3 Embedded, AES/EBU
	IP Inputs	UDP, RTP, RTSP, HTTP, HTTP Live (HLS), FTP, RTMP, Windows Media Video 9 with HTTP/ASF
<b>Outputs</b>	Video	SDI, HD-SDI (input monitoring)
	Codecs	H.264, AAC, Ogg Vorbis, MPEG-1 Layer II, MP3, Dolby Digital AC3, H.263, VC1
	Formats	MP4, FLV, F4V, 3GP, 3GP2, WMV, QuickTime, RealAudio, RealVideo, MP3, SMIL
	Protocols	UDP, RTP, SDP, RTSP, HTTP, HTTP Live (HLS), HTTP Smooth Streaming, MPEG-DASH, RTMP, RTMPT, RTMPS, FTP, MMS, Windows Media Video 9 w/ HTTP/ASF, IP-Unicast, IP-Multicast
<b>Storage</b>		60GB Internal SSD (expandable upon request) External Storage: USB, NFS, Samba, iSCSI, Fiber channel
<b>Administration</b>	Access	Web Interface SSH Access
	Monitoring	SNMP

## About the Helix Media Delivery Platform

The Helix Media Delivery Platform helps organizations encode, manage and securely deliver media to users on a wide range of platforms, formats and devices. This fully-supported, end-to-end solution allows organizations to automate the creation and delivery of high-definition, live and on-demand media. Easily integrated and managed, this solution helps educators, governments, enterprise organizations, broadcasters, carriers and OEMs reach more people with the content they want through a solution that saves money by streamlining the entire media delivery process.

## Contact Us

Contact a Helix sales representative at 800.444.8011 or [helix-sales@realnetworks.com](mailto:helix-sales@realnetworks.com).

To learn more about the Helix Media Delivery Platform, visit [www.realnetworks.com/helix](http://www.realnetworks.com/helix) and follow @RealHelix.