



Helix™ Mobile Producer — On-Demand

Reaching the World Through Wireless Devices

Mobile video is emerging as an exciting new communications medium for content owners and consumers, as well as a new revenue source for mobile operators. RealNetworks leads the adoption of mobile video with advanced products for the creation, delivery and broadcast of digital media to mobile devices.

Helix Media Delivery System Delivers an End to End Solution

Helix Media Delivery System is the leading cross-platform, multi-format software suite designed to enable carrier-grade digital media applications and services. It serves as the streaming media infrastructure for over 100 key broadband and mobile operators around the world. Helix Mobile Producer — On-Demand creates mobile content for the Helix Media Delivery System.

Next Generation Open Standards: 3GPP Rel 6 with H.264

Helix Mobile Producer generates compliant on-demand 3GPP Rel 6 files with H.264 codec support. Features include support for metadata, AACPlus/Enhanced AACPlus audio, and multi-rate on-demand streaming. Encoding with H.264 has the same quality as MPEG-2 at half the bitrate or less.

Key Benefits

- **Deliver High Quality Media:** Optimize video quality with controls to set your bitrate, resolution, and other pre-filtering options. Choose to encode in Variable Bit Rate and Constant Bit Rate for highest video quality.
- **Control Quality and Simplify the Encoding Process:** Preview your results with a graphical interface that displays both the source and encoded content side by side for comparison. Use preconfigured Job files as setting templates or customize your own Job files for reuse.
- **Manage Large Workloads Easily with High Volume Management Tools:** Use a graphical batch interface for processing large volumes of content and monitor progress through an SNMP network management system.

Key Features

- Support for mobile audio/video specifications, 3GPP Rel 5, 3GPP2, and 3GPP Rel 6. Supported codecs include: MPEG-4 Simple Profile, H.263 Profile 0, H.264 Baseline Profile, AAC-LC, AAC Plus, Enhanced AAC Plus, AMR-NB, AMR-WB, and QCELP
- Encoding of compressed and uncompressed content into high quality RealAudio® and RealVideo®
- Pre-filtering options to produce the highest quality video: including cropping, frame rate conversion, inverse-telecine, de-interlacing, noise filtering, brightness, contrast, and gamma adjustments.
- Ability to encode in Variable Bit Rate and Constant Bit Rate for highest video quality
- Video scaling for a range of mobile display resolutions from SQCIF (128x96) up to CIF (352x288)
- RealVideo encoding up to 2 Mbps and VGA (640x480) resolution
- Broad range of input file support including AVI, MOV, DV, MPEG-, MP3, MPEG-4, WAV, and MPEG-2*.

*MPEG-2 requires a separate DirectShow MPEG-2 reader, not included.

- IPv6 and IPv4/IPv6 mixed network support
- GUI that displays both the source multimedia content and the encoded content side by side for comparison
- Import and export XML Job files for management of pre-established settings and fast reuse of the same settings for multiple input files.
- Ability to imprint logos as part of the video stream/feed
- Ability to add title, author, copyright, and other metadata attributes

High Volume Management Tools

- SNMP monitoring to review encoding settings and check the health of encodes including: Clip Size, Duration, Input Source Filename, Stream Identification, CPU/Bit Rate Usage, Bandwidth Range, Average Frame Rate, Source File Information
- Graphical Batch interface for processing large volumes of content
- Scriptable command line interface

Technical Specifications

Video	Codec/Output	H.264 Baseline Profile (Level 1, 1b, 1.2, 1.3), RealVideo (8, 9, 10), MPEG4 Simple Profile (Levels 0, ob, 1, 2, 3), H.263 Profile o (Level 10, 20, 30)
	Resolution	SQCIF (128X96) up to CIF (352x288)
Audio	Codec/Output	AAC Plus, Enhanced AACPlus, AMR-NB, AMR-WB, AAC-LC, QCELP, MP3, RealAudio
Input	File Formats	AVI, MOV, DV, MP3, MPEG-4, WAV, MPEG-2* *MPEG-2 requires a separate DirectShow MPEG-2 reader, not included.
Output	File Formats	3GPP Rel 6 singlerate, 3GPP Rel 6 multirate, 3GPP Rel 5, 3GPP2, ISMA Profile o, AMR, QCP, MP3, RealAudio/RealVideo
Network	Transport	IPv6 and IPv4 support, RTP Unicast and Multicast (3GPP), Broadcast (RealVideo and RealAudio)



System Requirements

OS	Windows 2000, Windows XP or Windows 2003 (Latest service packs recommended)
CPU	Pentium III or equivalent (minimum); Pentium 4 (recommended)
Memory	128 MB of RAM (minimum); 256 MB (recommended)
Video Card	A video card and display supporting 1024x768 or greater
Software	Direct X 8.1 or later (to read .avi, .wav, and Windows Media files) (minimum); QuickTime 6.5 (to input .mov, .mp4, .3gp, and other filetypes) and a DirectShow MPEG-2 Decoder (to input MPEG-2 files) (recommended)

Contact Real Today

To learn more about Helix Mobile Producer and the Helix Media Delivery System, please contact a Real sales representative at **1-800-444-8011** or visit www.realnetworks.com/industries/serviceproviders/mobile/products/index.html