



Helix Mobile Producer encodes live and on-demand streaming mobile video that is optimized for wireless networks – all from a single, software encoding platform.

Helix Mobile Producer powers hundreds of streaming mobile video services worldwide today and is designed to optimize Quality of Service (QoS) and Quality of Experience (QoE) to help mobile operators deliver the highest quality video service.

Helix Mobile Producer is the content encoding component of the [Helix Media Delivery Platform](#) – the gold standard for mobile video among mobile operators, media companies and device manufacturers.

Next Generation Helix Mobile Producer

The next-generation Helix Mobile Producer architecture combines industry-leading mobile video quality with the interoperability, performance and reliability mobile operators worldwide have come to expect from Helix Technology. Next generation encoding advancements include multi-channel video input, monitoring and support for exciting features such as Live Rate Adaptation. The next-generation Helix Mobile Producer teams up with the Helix Mobile Server and Helix client technologies to form the definitive end-to-end solution for future-proof mobile video.

- **High Quality Encoding**
Highly optimized H.263 and H.264 video compression for both live and on-demand content for delivering the best video quality to mobile devices.
- **Multi-Channel Input / Multiple Profile Output Capacity**
High density four channel input supporting up to 12 output profiles maximizes encoding capacity, throughput, and supported devices.
- **Live Rate Adaptation and Multi-Rate File Creation**
Create multi-rate streams to improve overall end-user QoS by delivering the highest bit-rate possible supported by the wireless network at any given time for both live and on-demand content.
- **Full Automation and Productivity Toolset**
Fully automate the encoding process with the command-line interface and maximize productivity with XML job file templates – tailored recipes for mobile devices.
- **Quality Monitoring**
Audio and video watchdogs reports for no, noisy or frozen video channel and for silent, imbalanced, clipping or out of phase audio channel. A graphical audio/video preview, encoding and broadcast statistics and session logging highlight bitrate, frame rate, latency, packets and quality.



Helix Mobile Producer

- [Settings Advisor](#)

This GUI settings advisor provides automatic alerts of errors, warnings and informational conditions to help optimize encoding recipes. Standards-based guard railing ensures compatible stream delivery.

Product Features

- Import job files from previous versions of Helix Mobile Producer or RealProducer
- Standards-based 3GPP Rel 5 and Rel 6 and RTP compliance
- SNMP monitoring
- Carrier-grade encoding platform – redundancy and forward error correction
- Broadcast content to multiple servers for ultimate scalability and redundancy
- Productivity: Job files, batch encoding and command-line
- Encode in Variable Bit Rate and Constant Bit Rate for highest video quality
- Pre-filtering options include: cropping, frame rate conversion, inverse-telecine, de-interlacing, noise filtering, brightness, contrast, and gamma adjustments
- GUI that displays both the source multimedia content and the encoded content side by side for comparison
- Metadata attributes, such as title, author, copyright
- Standard, On-Demand and Professional versions available
- Future proof IPv6 support

Technical Specifications

Input	General	4 input source license with professional 1 input source license with standard Additional source licenses available
	Capture Card	Most capture cards that support Direct Show, VFW or WDM Osprey (100, 210/220, 230, 240e, 440, 450e, 500DV, 530, 540, 700e HD) Winnov (Videum Duo, Videum Quattro) USB and Firewire (IEEE 1394) based PC cameras
	File Format	AVI, MOV, DV, MP3, MPEG-4, WAV, MPEG-2* *MPEG-2 requires a separate Direct Show MPEG-2 reader, not included.
Output	Protocol	RTP Unicast Helix (RBS) support for push, pull and multicast Multiple destination support (live or file)
	Video	H.264 (MPEG-4 AVC) Baseline Profile up to level 3.2 H.263 Profile 0 up to level 50 MPEG-4 Simple Profile up to level 3 RealVideo 8, 9, 10



Helix Mobile Producer

Output, cont.	Resolution	SQCIF (128x96), QCIF (176x144), CIF (352x288) or user-defined H.264 custom frame sizes up to 1280 x 1024 H.263 custom frame sizes up to CIF (352x288) MPEG-4 custom frame sizes up to CIF (352x288) RealAudio/RealVideo custom frame sizes up to 1920x1080
	Audio	AAC-LC HE-AAC v1 (AACPlus) AMR-NB AMR-WB MP3 RealAudio
	File Format	3GPP Rel 6 singlerate 3GPP Rel 6 multirate 3GPP Rel 5 MP3 MP4 RealAudio/ RealVideo

System Requirements

OS	Windows XP, Windows Vista, Windows 7, Windows Server 2003, Windows Server 2008
CPU	Pentium 4 or Core2Duo (recommended)
Memory	512 MB of RAM (minimum) 2 GB (recommended)
Video Card	A video card and display supporting 1024x768 or greater
Software	Direct X9.1 or later (to read .avi, .wav, and Windows Media files) (minimum) QuickTime 7 (to input .mov, .mp4, .3gp, and other filetypes) (recommended) DirectShow MPEG-2 Decoder (to input MPEG-2 files) (recommended)

About The Helix Media Delivery Platform

The Helix Platform includes all the tools needed to rapidly build and deploy mobile TV services to subscribers, from media encoding and asset authentication through to accounting and playback.

- **Carrier-Grade Scalability**

Helix Media Delivery Platform is specifically designed to scale and deliver content reliably across distributed networks.

- **Bandwidth Efficiency**

Maximize bandwidth efficiency and improve quality of service through multi-tier architecture enabling splitting and content caching.



Helix Mobile Producer

- **End-To-End Quality and Reliability**
From encoder to server, from server to server or from server to player, the Helix Platform can be configured fully redundantly to provide a proven, fault-tolerant failover delivery service.
- **The Broadest Reach**
The Helix Media Delivery Platform offers proven handset interoperability and is fully 3GPP compliant delivering the broadest reach to any device including, PCs, mobile phones, smartphones, iPhones, netbooks, MIDs and other emerging devices.



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