



RealProducer®

Create Live and On-Demand Digital Media

Extend your customer reach through compelling digital media. Streaming video grew by 80% in 2004 and is forecasted to grow by 48% in 2005 to over 21 billion served (Accustream, Jan 2005). RealProducer creates live and on-demand digital media with the flexibility to produce the highest quality content for audiences from dialup to broadband.

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 70 key broadband and mobile operators around the world. RealProducer creates broadband content for and is a component of the Helix Media Delivery System.

RealProducer is available in two editions: RealProducer Basic provides core features to stream live and on-demand content. RealProducer Plus includes all the features of the Basic version plus powerful tools to manage the demands of professional production.

RealProducer Benefits

- **Richer Customer Experience:** Provide your customers with improved real-time experiences for live events and interactivity such as polling, voting, and Q&A applications with the latest Helix Media Delivery System. The Helix Media Delivery System enables you to deliver content with reduced startup delays and low live latency.
- **Quality & Performance:** Choose from a broad range of input formats, optimize quality with pre-processing settings, and encode to RealVideo® 10. RealVideo 10 delivers unparalleled quality from dialup to HDTV - with a 30% increase in quality over RealVideo 9.
- **Efficient & Flexible Production:** Work smart by storing and reusing your customer parameters in audience and server templates. Setup job files with all the necessary encoding settings and use batch processing to automatically and sequentially encode multiple jobs.

Key Features

New Feature Highlights

- Low Live Latency in the Helix Media Delivery System provides near real-time experience for entertainment and live interactivity
- Improved firewall traversal - broadcast to servers behind NAT firewalls
- IPv6 and IPv4/IPv6 mixed network support

Core Features

- Creates industry-leading RealAudio® 10 and RealVideo 10
- Robust, reliable, and fault tolerant for offline encoding or live server connections

Superior Pre-Processing Support

- De-interlace and Inverse Telecine Filter with Automatic Mode

- Noise Reduction Filter
- Black Level Correction Filter

Advanced Video Optimization

- High-Quality Video Scaling
- Two-Pass Encoding
- Variable Bit Rate Encoding (VBR)

Highly Efficient and Flexible

- Easy-to-access encoding controls and an at-a-glance view of active and pending encoding jobs from the main window
- Job Files, Audience Templates & Server Templates - save, reuse and share encoding settings, audience presets and server connection information to create standardized, consistent output
- Batch Processing - queue multiple jobs and walk away; RealProducer will encode an unlimited number of jobs sequentially
- Configurable SureStream™ Encoding - ensures complete control over stream bit-rate to save bandwidth and reduce file size
- Unlimited Target Audiences - create as many target audience presets as you need
- WDM Capture Support - supports capture devices utilizing WDM and VFW drivers
- Enhanced Multiprocessor Encoding - takes advantage of multiple processors for single-rate and SureStream encoding
- Multiple Destination Support - Allows multiple files and/or servers to receive encoded output
- File to Server Live Broadcast

Troubleshooting and Error Correction

- Log Files - diagnostic, informational, warning and error messages saved to file for troubleshooting and analysis
- Log Viewer - displays log messages real-time during encoding sessions
- Forward Error Correction - RealProducer resends additional packets at preset intervals to insure against dropped packets on "lossy" networks
- Loss Protection - additional information sent in each packet to enable RealPlayer® to reconstruct missing frames in the event of packet loss
- Independent Output - each file output method and server destination runs in separate processes to ensure reliable encoding
- Automatic File Rollover - creates a new RealAudio/RealVideo file and continues encoding when previous file reaches a specific size or encoding duration reaches limit specified

Advanced Broadcasting Functionality

- Server Reconnect - RealProducer automatically reconnects to Helix Server if the initial push connection is lost
- Multicast - single broadcast stream is sent simultaneously to multiple servers - conserves bandwidth while increasing redundancy and scalability
- Pull Broadcasting - allows servers to proactively connect to RealProducer after a player has requested a media stream
- Connectionless UDP Transport - reliable one way data transmission





Product Comparison

Feature	Basic	Plus
Creates RealVideo 10/ RealAudio 10	Yes	Yes
Capture & Save/Capture & Broadcast live feeds	Yes	Yes
File to Live Broadcast	Yes	Yes
SureStream Encoding	Up to 3 audiences	Unlimited
Multiple Destination Support	1 server and 1 file only	Unlimited
Low Live Latency with Helix Media Delivery System	Yes	Yes
IPv6 and IPv4/IPv6 mixed support	Yes	Yes
Customize Target Audience Settings	No	Yes
Batch Encoding	No	Yes
Video Cropping and Scaling	No	Yes
Audience and Server Templates	No	Yes
Job File Support	No	Yes
Multicast Broadcasting	No	Yes
Upgrade & Support	No	Yes

System Requirements

For complete requirements, visit www.realnetworks.com/products/producer/specifications.html

OS	Windows 2000 or Windows XP (Latest service packs recommended), Linux 2.4 with Glibc 2.1 or greater, Linux 2.6 *Any distribution that meets these requirements should work but Real tests and supports Redhat 9.0 and SUSE 9
CPU	500 MHz Pentium-class CPU (Pentium 4 processor, 2.4 GHz or faster recommended)
Memory	128 MB of RAM (512 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) Recommended: QuickTime 6.5 (to input .mov, .mp4, .3gp, and other filetypes) and a DirectShow MPEG-2 Decoder (to input MPEG-2 files)

Contact Real Today

To learn more about RealProducer and the Helix Producer Software Development Kit (SDK), please contact a Real sales representative at **1-800-444-8011** or visit www.realnetworks.com/products/producer/index.html