

Digital Rapids Advantages (Encoding)

Digital Rapids media encoding solutions offer a broad range of advantages over competing systems. While specific advantages will vary, there are a number of general differentiators that summarize some of the compelling ways in which StreamZ, StreamZHD and DRC-Stream excel against alternatives.



Hardware-based preprocessing (quality) - our advanced real-time hardware features such as motion adaptive de-interlacing and 3D noise reduction deliver visible quality advantages over competing systems, reduce the amount of work that the software compression engine needs to do, and enable the most efficient use of bandwidth in the compressed result. Note that some competing systems that (legitimately) claim to have hardware preprocessing only have a limited number of such features, as opposed to Digital Rapids products' full suite of preprocessing technology. In addition, you can apply software-based processing functions to each chosen output format independently for flexibility when encoding to multiple formats.

Tightly integrated software - unlike solutions that provide only basic utility-grade software or require the use (and tech support) of separate third-party encoding utilities, Digital Rapids systems feature comprehensive, tightly integrated, easy to use software that minimizes training requirements, simplifies operation and increases productivity.

Functional flexibility - Digital Rapids Stream, StreamZ and StreamZHD encoding solutions each provide media encoding, transcoding and streaming all in one system, reducing equipment requirements in dynamic environments where tasks may vary frequently.

Format flexibility - unlike single-format hardware encoders and solutions limited to only a limited number of formats, our flexible codec architecture supports a broad range of standard and optional compression and file formats, and enables the easy addition of new formats to ensure against obsolescence

Audience flexibility - Digital Rapids systems can encode to multiple compression formats, resolutions and bit rates simultaneously, enabling you to create optimized media for a diverse audience across multiple platforms without additional effort or complexity.

Performance - our highly efficient, scalable, multi-processor and multi-core optimized software architecture boosts encoding throughput for maximum productivity. Customers have reported test results with our systems providing file-to-file transcoding speeds up to multiple times faster for some formats than the competing solution they were testing against, which also claimed advanced performance on multi-CPU systems.

Scalability - in addition to the scalability within each of our systems, multiple Digital Rapids solutions can be combined with our Broadcast Manager or Transcode Manager management software to support applications from individual workstations to enterprise and global workflows with hundreds of streaming or encoding channels.

Reliability - designed for demanding broadcast television and telco environments, our solutions are ready for the unforgiving demands of IPTV, live event webcasting and mission-critical applications, and support robust failure recovery options for worst-case scenarios.

Integration - our systems include powerful tools for easy integration into any production, post, broadcast or enterprise workflow, including RS422 device control, genlock, GPI triggers, LTC, watch folder support, automatic FTP distribution, XML project file structures and automated publishing.

Cost-effectiveness - using open-standards, general-purpose PC workstation platforms for our hardware and software enables us to offer our systems less expensively than dedicated proprietary hardware solutions; meanwhile, the automation and management capabilities and exceptional performance of our solutions help our customers reduce operational costs.