

HIGHLIGHTS

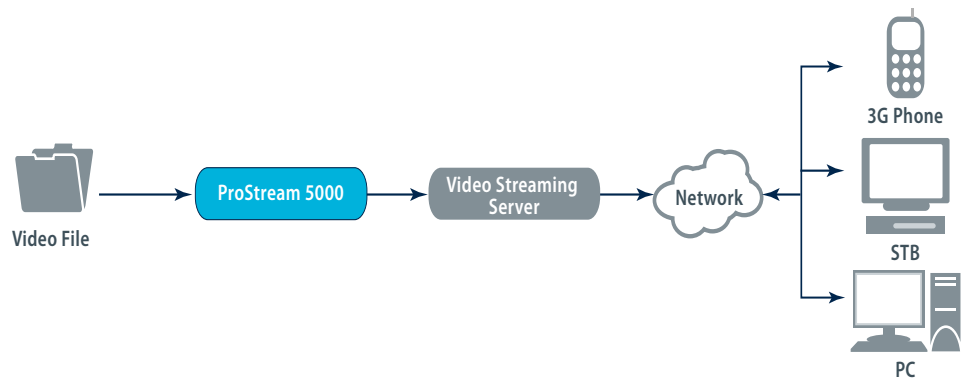
- High-performance, 16-core transcoding appliance, capable of up to 16 simultaneous transcodes
- Leverages award-winning Rhozet™ Carbon Coder™ technology
- Supports any file-based transcoding application
- Flexible software architecture enables upgrades to the latest codecs and transcoding technologies
- Integrated with Harmonic video pre-processing technology for superior video quality on all formats
- Integrated into the MediaPrism™ Convergence Suite

The ProStream™ 5000 is a file-based universal transcoding appliance which converts between a wide variety of video formats. The ProStream 5000 is a 1-RU server with an unprecedented 16 processor cores, offering a very dense and powerful solution to any file-based transcoding problem. Managed through an intuitive interface, the ProStream 5000 can be used as a stand-alone transcoding system, or it can be configured in a cluster of machines for high-volume throughput. Harmonic's MediaPrism™ Workflow Manager system can be used to manage the ProStream 5000 as part of a complete digital workflow solution for television, web, and mobile markets.



Supporting all major formats, the ProStream 5000 is continually updated to accommodate new formats and technologies. The ProStream 5000 can run as a standalone appliance or as part of a multi-node, fully-automated rendering farm. As part of the transcode process, the ProStream 5000 handles a wide array of critical operations including SD/HD conversion, PAL/NTSC conversion, logo insertion, color space conversion, color correction, closed captioning, ad insertion and more.

Distributed enterprise-class transcoding with the ProStream 5000 provides maximum flexibility, future-proofing, and cross-vendor interoperability. The ProStream 5000 allows for automated processing of high-volume transcoding tasks, managing job distribution, job prioritization, load balancing, FTP transfer, status monitoring, and job notification. The ProStream 5000 can be controlled remotely as well as programmatically using the fully-functional, XML-based, Carbon API.



BENEFITS

- **Video Quality:** High quality software codecs and pre-processing libraries ensure outstanding video quality.
- **Performance:** Transcode up to 16 files simultaneously with various formats, bitrates, frame-rates, and resolutions.
- **All-IP Infrastructure:** Native IP inputs and outputs plug seamlessly into an all-IP headend.
- **Management:** Device configuration, complete redundancy, alarm forwarding, and a simple XML-based API for system integration and complete programmatic control.

SUPPORTED VIDEO CODECS

- MPEG-1
- MPEG-2, D-10/IMX
- MPEG-4 Part 2
- H.264/AVC/MPEG-4 Part 10
- VC-1
- AVC-Intra
- DNxHD
- JPEG-2000
- DV25, DV50, DVCPPro, DVCPPro100
- HDV
- DPS
- DPX
- Windows Media
- Flash 8 (VP6)
- Image Sequences
- RealVideo

SUPPORTED AUDIO CODECS

- PCM
- MP3
- DTS
- AC-3
- AAC
- AMR-NB
- Dolby Digital
- Windows Media Audio
- RealAudio

SUPPORTED CONTAINERS

- AVI
- QuickTime
- ASF, WMA, WMV
- MXF (OP1a, OPAtom)
- MPEG-2 PS, MPEG-2 TS
- MP4, F4V
- VOB
- LXF, GXF
- WAV, Broadcast WAV
- 3GPP
- 3G2
- Microsoft Smooth Streaming
- Apple iPhone Streaming

SUPPORTED SYSTEMS

- Omneon Spectrum, MediaGrid
- Leitch VR, Nexio
- Grass Valley Profile, K2
- Quantel sQ
- Panasonic P2
- Sony XDCAM
- Avid Editing Systems
- Apple Final Cut Pro
- Adobe Premiere Pro
- Grass Valley Edius

### BASIC VIDEO OPERATIONS

- Frame size conversion
- Frame rate conversion
- Color space conversion
- Aspect ratio conversion
- Interlace/De-interlace conversion
- Telecine / inverse telecine
- PAL/NTSC conversion
- SD/HD conversion
- Cropping

### VIDEO PROCESSING

- Fade in/out
- Black/white correction
- Blur
- Color correction
- Gamma correction
- NTSC-safe
- Median
- Rotate
- Sharpen
- Temporal noise reduction

### POWER

Input Voltage Range	100-264 VAC
Power Supply	Single
Line Frequency	47-63 Hz
Typical Consumption	530 W

### ENVIRONMENTAL

Cooling	9 fans; air flow front to side
Operating Temperature Range	50° to 95° F 10° to 35° C
Storage Temperature Range	-40° to 158° F -40° to 70° C
Operating Relative Humidity	8% to 90% non-condensing
Non-Operative Humidity	5% to 95% non-condensing
Electromagnetic Compliance	FCC Part 15 Class A CE Mark (EN 55022 Class A)
Safety	UL, CUL Canada EN 60950/IEC 60950-Compliant TUV Germany ROHS 5/6 - Directive 2002 E/C

### AUDIO PROCESSING

- Normalize
- Fade In/Out
- Low-pass
- Volume
- Dynamic range compressor

### ADDITIONAL OPERATIONS

- Timecode imprint
- Subtitle/CC imprint
- XML controllable titler
- Metadata transport and conversion
- Line 21/CC preservation/conversion
- Quality checking
- Logo insertion
- 601/709 color space support
- Video capture board support
- Multiple simultaneous target outputs
- Unlimited number of encoding passes
- Remote job submission
- Batch processing
- Watch folder automation
- Segment extraction/insertion
- FTP delivery

### PHYSICAL

Dimensions (W x H x D)	17.2" x 1.7" x 27.75" 43.7 cm x 4.3 cm x 70.5 cm
Weight	40 lbs 18.1 kg

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