rtMosaic

RUDRAKSHA TECHNOLOGY

Mosaic Generator

rtMosaic is a compact 1 RU Mosaic Generator for Multi channel service operators seeking the highest quality and most cost effective solution to provide video rich interactive Program guide to their subscribers. rtMosaic is all digital MPEG2 / MPEG4 system utilizing Gigabit Ethernet/ASI interfaces for input and output. The system can be configured Locally or remotely in real-time.

MSO's can group similar content together and create audience specific portals for News, Sports, Family, Movie and Local contents, and incorporate advertising, service promotions and other interactive elements to the presentation. The viewer uses the arrow buttons on their remote to highlight and navigate individual video tiles and hear the accompanying audio and can directly tune to a channel that captures their interest. These video rich channels provide operators value added opportunities to direct subscribers to services such as video-on-demand and pay per view gateway, localized advertising.

KEY FEATURES

- Create audience specific video portals for News, Sports, Children's, Movie and Local programming
- Real time processing of video inputs for creation of a tiled, interactive mosaic program guide.
- Pre-defined 4/9/16 picture arrangement mode
- Supports different inputs ASI, IP
- Supports ASI and IP output
- MPEG2 / H.264 Video Encoding
- Direct configuration on local system or remote operation over Ethernet.
- Real time, visual user interface simplifies the creation of custom mosaic layouts.
- Supports file input for video based loop for Video On Demand assets

- Flash animation or Image overlays on mosaic output to add advertising material
- Support trapezoid shape for video thumbnail
- XML Based configuration
- Use, save and recall mosaic templates files.

INPUTS

- **Interface** : Gigabit Ethernet (UDP Multicast IP), Local file and DVB-ASI*
- **Stream** : SPTS or MPTS
- **Video** : MPEG2 / MPEG4
- **Audio** : MPEG Layer II or Dolby Digital AC-3
- **Background** : Still image

PROCESSING

- Capable of processing 8 ASI Inputs (MPTS) or 16 IP Inputs (SPTS/MPTS) for the creation of a tiled, mosaic output.
- End-to-end production: multi-program input, de-multiplexing, decoding, rescaling and cropping, encoding and re-multiplexing.
- Capable of generating two mosaic services from one server each containing 12 thumbnails each.

OUTPUTS

- **Interface** : Gigabit Ethernet (UDP Multicast IP), DVB-ASI
- **Stream** : MEPG-2/MEPG-4 SPTS (ASI/IP)
- **Video** : MPEG-2/MEPG-4
- **Bit rate** : 2 to 15 Mbps, Constant Bit Rate (CBR) & Variable Bit Rate (VBR)
- **Horizontal Resolutions** : 720, 704, 544, 528, 480 & 352
- **Vertical Resolution** : 576 and 480
- **Aspect Ratio**: 1:1, 4:3, 16:9, 2.21:1, Letterbox (4:2:0), Pan-Scan(4:2:0)
- **Audio** : MPEG Layer II or Dolby Digital AC-3

SPECIFICATION

Mosaic Generator is available as a 1RU system. The hardware specifications may vary dependent on options such as redundant power supply, failover requirements, input/output interfaces etc.

- 1U Rack Mountable Chassis with Mounting Rails
- Intel Dual Quad-core Xeon Processor
- Dual Gigabit Ethernet Controller
- 1400W High Efficient Power Supply
- Windows 7 Operating System

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