

# HD Rendition

## SD/HD Up/Down Conversion



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### Features:



- ✓ Up/Down Conversion
- ✓ On screen display menus
- ✓ 24p conversion
- ✓ Audio delay
- ✓ Audio embedding and de-embedding
- ✓ De-interlacing for up converted progressive outputs
- ✓ Video cross conversion
- ✓ Ethernet control system
- ✓ Card edge control
- ✓ 12 Cards per 3RU frame
- ✓ 4 Cards per 1RU frame
- ✓ Up and down conversion for common interlaced and progressive signals

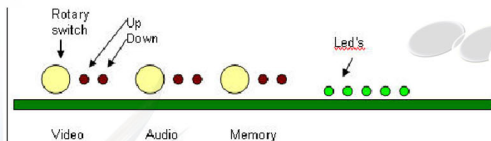
HD-Rendition - a new generation of cost effective standard to high definition up and down conversion available on a single card equipped with an abundance of hardware resources allowing each unit to be loaded with the necessary software and firmware to enable up and down conversion, with a full range of image enhancement features.

In addition to providing basic HD Up and down conversion, HD Rendition provides frame synchronisation, audio delay, embedding and de-embedding and video cross conversion facilities.

HD-Rendition is completely controllable by Ethernet & rotary switches and push buttons on the front edge of the card.

Standard communication protocol allows for control from an ethernet interface card for multi card rack systems.

All of the front card controls will be available for advanced features such as noise reduction and detail enhancement.



## Specifications

### Video Input And Output Formats

#### Standard Definition

Lines	Scan	Frames
576	Interlaced	50
480	Interlaced	60/1.001

#### High Definition Definition

Lines	Scan	Frames
1080	Prog	60 sf
1080	Prog	60/1.001 sf
1080	Prog	50 sf
1080	Interlace	30
1080	Interlace	30/1.001
720	Prog	60
720	Prog	60/1.001
720	Prog	50
1080	Prog	24
1080	Prog	24/1.001
720	Prog	24
720	Prog	24/1.001

And many more .....

### Video Input Processing

#### Interlaced

Horizontal Positioning  
Vertical Positioning  
Horizontal shrink and expand  
Vertical shrink and expand  
Black level offset  
Luminance gain  
Chrominance gain

#### Progressive

Horizontal Positioning  
Vertical Positioning  
Horizontal shrink and expand  
Vertical shrink and expand  
Black level offset  
Luminance gain  
Chrominance gain  
Motion compensation  
3:2 pull down detection  
Noise reduction  
Anti-alias  
Moire

### Video Output Processing

Horizontal picture offset for basic timing control +/- half a line

Vertical picture offset for basic timing control +/- 25 lines

On screen display for menu options

Safe area generator

### Audio Input/output Format

Analogue stereo

AES Unbalanced

AES Balanced

### Audio Input Processing

Analog

Gain

Variable delay

Embed into SDI (HD and SD)

Digital

Gain

Variable delay

De-embed and re-embed

### RS232

Command and debug interface

### Card Size

Length: 345mm

Width: 118mm

Height: less than 15mm

Edge Connector DIN41612 plug rows a,b and c with six BNCs.