



# DVNR 1000-HD

## HDTV Image Processing Workstation



### About DVNR 1000-HD

Digital Vison's DVNR1000-HD real time Image Processing Workstation allows you to tailor an HD system to meet your specific requirements. The packing density of the DVNR1000-HD enables up to three processing options in one single unit.

For optimum flexibility, the image processing options in the DVNR1000-HD range includes Grain & Noise Reducer, Advanced Scratch Concealer, Colour Corrector, Aspect Ratio Converter, Pan & Scan Processor, Advanced Aperture Corrector and Chroma Desaturizer. We supply the tools - you configure the tool box!

### General Features

- Industry standard Image Processor
- High Packing Density
- 625/525 line operation
- Frame store synchroniser
- Field based 2-D Aperture Corrector
- Scene Change detector
- 3:2 pull-down detector
- Adjustable re-blanking
- Video Gain Control
- External 3/2 input
- Analogue monitor output
- Cross-conversion between P and PsF formats

# Technical Specifications

## DVNR 1000-HD

### Input Interfaces

Video Control	Bit Serial Interface SMPTE292M RS232 up to 57 kBaud (DB25) or RS422 up to 230 kBaud (DB9) 75 ohm terminated (BNC) 75 ohm terminated (BNC)
Genlock 3/2 phase	

### Output Interface

Digital Video	Bit Serial Interface SMPTE292M
Analogue Video 3/2 phase	YCbCr for monitoring 75 ohm (BNC)
Control cascade	RS422 up to 460 kBaud (DB9) for cascading units. Delay matched to video.

### Video Input Formats

System	SMPTE standard no.	Scanformat	Lines	Pixels
1080i/60	274M type 4	Interlace	1080 (1125)	1920 (2200)
1080i/59.94	274M type 5	Interlace	1080 (1125)	1920 (2200)
1080i/50	274M type 6	Interlace	1080 (1125)	1920 (2640)
1080P/30	274M type 7	Progressive	1080 (1125)	1920 (2200)
1080P/29.97	274M type 8	Progressive	1080 (1125)	1920 (2200)
1080P/25	274M type 9	Progressive	1080 (1125)	1920 (2640)
1080P/24	274M type 10	Progressive	1080 (1125)	1920 (2750)
1080P/23.976	274M type 11	Progressive	1080 (1125)	1920 (2750)
1080PsF/24	274M type 12	Interlace	1080 (1125)	1920 (2750)
1080PsF/23.976	274M type 13	Interlace	1080 (1125)	1920 (2750)
1035i/60	260M type 1	Interlace	1035 (1125)	1920 (2200)
1035i/59.94	260M type 2	Interlace	1035 (1125)	1920 (2200)

### Input Processing

No. of bits	8 or 10
Y Gain	0 - 200%
C Gain	0 - 200%
Test Signals	Colour bars, Ramp, Black

### Output Processing

No. of bits	8 or 10
Black clip	Off, On (level 64)
White clip	Off, On (level 940)
Chroma clip	Off, On (levels 64 & 960)
Monochrome	Off, On
Horizontal re-blanking	0-255 pixels (left/right symmetric)
Vertical re-blanking:	0-1080 lines (upper/lower separately)

### Mechanical

Height (12.2")	Rack mount 7 RU – 310 mm (+ 1 RU – 44.5 mm (1.8") for air-flow)
Depth	480 mm (18.9")
Width	435 mm (17.1")
Weight	28 kg (61.7 lbs)
Cooling	Rear and bottom mounted fans.

### Power

Voltage	90 – 260 VAC, 48 – 66 Hz
Consumption	< 600 VA, typ 200 VA

Specifications, features, availability and prices are subject to changes due to the continuous development of our products.

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