

## Technical Specifications

### Input Formats and Supported Video Standards

<b>CVBS</b>	PAL (I,B,G,D,M,N) NTSC (EIA, EIA-J, 4.43) SECAM
<b>Y/C</b> <b>YPbPr/GBR</b>	As CVBS 525/625 N10 or Betacam Sync on Y/G Ext. on CVBS#2

<b>/SDI Option</b> <b>SDI (x2)</b>	CCIR 601 Digital Component Serial (270 Mbps) 525/625
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<b>/DV Option</b> <b>IEEE1394</b>	DV/DVCAM 525/625
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### /VGA Option

### Input Video Connectors

<b>CVBS</b>	2 x BNC – can be configured as dual input or single looping
<b>Y/C</b> <b>YPbPr/GBR</b>	4 pin female S-Video connector 3 x BNC
<b>Analog Reference</b>	2 x BNC – can be configured as As dual (525 and 625) or single (525/625) looping

<b>SDI (1 and 2)</b>	BNC 75R Terminating (/SDI Option)
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<b>IEEE 1394</b>	Firewire connector (IEEE 1394) 6 Pin (/DV Option)
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<b>CCIR 601 Ref.</b>	BNC 75R Terminating (/SDI Option)
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<b>VGA</b>	15-DP Sub-Min (/VGA Option)
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### Output Formats and Supported Video Standards

<b>CVBS</b>	PAL (I,B,G,D,M,N) NTSC (EIA, EIA-J, 4.43) SECAM
<b>Y/C</b> <b>YPbPr/GBR</b>	As CVBS 525/625 N10 or Betacam Sync on Y/G

<b>SDI (x2)</b>	CCIR 601 Digital Component Serial (270 Mbps) 525/625 (/SDI Option)
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<b>IEEE1394</b>	DVCAM 525/625 (/DV Option)
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### Output Video Connectors

<b>CVBS</b>	2 x BNC
<b>Y/C</b> <b>YPbPr/GBR</b>	4 pin female S-Video connector 3 x BNC

<b>SDI (1 and 2)</b> <b>IEEE 1394</b>	BNC 75R (/SDI Option) Firewire connector (IEEE 1394) 6 Pin (/DV Option)
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### External Audio Interface (/A Option)

Analog Input Channel 1 Or AES/EBU Channels 1 and 2	XLR-3 Skt.
Analog Input Channel 2 Or AES/EBU Channels 3 and 4	XLR-3 Skt.

Analog Output Channel 1/ AES/EBU Channels 1 and 2	XLR-3 Plg.
Analog Output Channel 2/ AES/EBU Channels 3 and 4	XLR-3 Plg.

### Audio Processing

Digital Audio	24 Bit
Audio Delay Time	Approx 1sec. max (depending upon sample rate)
Audio Gain	+/-6dB/Mute
ADC/DAC Resolution	20 Bit

### Video Processing

Quantizing Scheme	CCIR 601 10 Bit (4:2:2)
Sampling – Luminance	13.5MHz x 12 Bit
Sampling – Chrominance	2 x 6.75 MHz x 12 Bit
Digital Enhancement	Horizontal and vertical, Y and C
Noise Reduction	Recursive Y and C up to 20dB Median Filtering 2/3D
Aspect Ratio Conversion	Fixed common formats and continuously variable. Pan, Scan and Crop controls.
TBC	Full Frame TBC
Line/Field Rate Conversion	Four Field, Four Line spatio temporal motion adaptive interpolation
SECAM Ident (input)	Horizontal
SECAM Ident (output)	Horizontal + Vertical
CVBS Chroma Modulation	PAL R-Y/B-Y Axis NTSC I/Q Axis
Signal Performance (Analog)	
Frequency Response	
Luminance (Y)	5.5 MHz
Chrominance (C)	0.5-1.5 MHz
Differential Phase	<1°
Differential Gain	<1%
Signal to Noise Ratio	>68dB CCIR Weighted Flat field

### Power Requirements

AC Voltage	90-260V
Line Frequency	50/60 Hz
Power Consumption	100VA

### Physical

Dimensions	44x444x500mm (HxWxD)
Weight	8kg approx
Chassis	1RU 19" Rack mounting
Cooling	Forced air – cross flow (side to side)

### Options

Factory fitted options, to be specified on ordering:

<b>/SDI</b>	Provides CCIR 601 interfaces inc. embedded audio processing.
<b>/DV</b>	Provides DV/DVCam Video and audio interfaces (IEEE1394 Firewire)
<b>/A</b>	Provides external interface for analog and AES/EBU digital Audio
<b>/VGA</b>	Provides additional input for computer display format video

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