



Order Information

5058000

Archangel Ph.C-HD - Real-time Motion-compensated SD and HD Video content Restoration System (Dirt, Dust, Tramline Scratch, Noise Reduction, Dropout, Unsteadiness and Flicker) for Film and Video originated material with PC based GUI

Archangel Ph.C-HD Specification

Signal Inputs			
Serial Digital	2 x 75 Ohm SD/HD Serial Digital with embedded audio (4 Groups) – 270M Mbit/s SD-SDI SMPTE259M – 1.5 Gbit/s HD-SDI SMPTE292M / SMPTE299M – 3 Gbit/s Dual HD-SDI SMPTE372M		
Reference	2 x loop-through HDTV Trisync/SD Bi-sync (Black & Burst) SMPTE 240M/274M.		
Audio AES	8 channels unbalanced AES-3 via BNC connectors (75 Ohm)		
Signal Outputs			
Serial Digital Primary	2 x 75 Ohm SD/HD Serial Digital with embedded audio (4 Groups) – 270M Mbit/s SD-SDI SMPTE259M – 1.5 Gbit/s HD-SDI SMPTE292M /SMPTE299M – 3 Gbit/s Dual HD-SDI SMPTE372M		
Serial Digital Secondary:	2 x 75 Ohm SD/HD Serial Digital with embedded audio (4 Groups) – 270M Mbit/s SD-SDI SMPTE259M – 1.5 Gbit/s HD-SDI SMPTE292M / SMPTE299M Audio AES: 8 channels unbalanced AES-3 via BNC connectors (75 Ohm)		
Control Functions			
Input Select	Input A, Input B (Single Link Only)		
Input Material Type	Auto, Video, Film (2,2), Film (2:3)		
Field Dominance	F1:F2, F2:F1		
Input Blanking	Left, Right, Top, Bottom		
Input Standard (Single)			
YCbCr 4:2:2, 10 bit:	525, 625, 1080 50i, 1080 59i, 1080 23.98PsF, 1080 24 PsF, 1080 25 PsF, 1080 29.97 PsF		
Input Standard (Dual)			
YCbCr 4:4:4, 10 bit:	1080 23.98 PsF, 1080 24 PsF, 1080 25 PsF, 1080 29.97 PsF		
RGB 4:4:4, 10 bit:	1080 23.98 PsF, 1080 24 PsF, 1080 25 PsF, 1080 29.97 PsF		
Output Blanking	Left, Right, Top, Bottom		
Output Split Screen	H Split, H Repeat, V Split, Diagonal Split		
Restoration Functions			
Artefact Repair	Dirt & Dust, Tramline Scratch, Stabilization, Flicker, Video Dropout, Dead Pixel		
Noise & Grain	Film Grain Management, Video Noise Reduction		
Non-linear Enhance	Horizontal & Vertical Enhancement		
Audio Functions			
Audio Select	Embedded, AES		
Audio Type	PCM, Data		
Audio Mode	Pass, Mute, Tone (1KHz, 4KHz)		
Audio Gain	-6dB to +6dB (PCM only)		
Audio Delay Offset	-250 to +250 ms (global) -250 to +250 ms (per pair)		
Up/down conversion		SD to HD and HD to SD conversion at the same frame rate with independent ARC available for primary and secondary outputs	
System Utilities			
Test Patterns		Black, Colour Bars, Pluge	
Video Utilities		Procamp, Color Corrector, Clipper, Gamut Legaliser	
Genlock		Input, Ref A, Ref B	
Output Timing		H & V Offset	
VANC data		VANC data passing in same format processing modes (HD/HD and SD/SD)	
Power			
Input Voltage Range		100 V to 240 V rms., 50/60 Hz	
Mains Fuse Rating		T 8 AH 250 V. (Each Power supply)	
Maximum Input Current		7 - 3 A (Each Power supply)	
Power Consumption		500 W	
Mechanical			
Temperature Range		0 to 35° C operating	
Cooling		Axial fan, front-to-rear airflow	
Weight		Approximately 20 kg	
Case Type		3 RU Rack Mounting	
Dimensions (W, D, H)		483 mm x 563 mm x 132 mm	

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