



# *ultimate* **12**

*hardware*

***Practically Perfect in Every Way!***  
(from Mary Poppins, a Petro Vlahos milestone )



SD

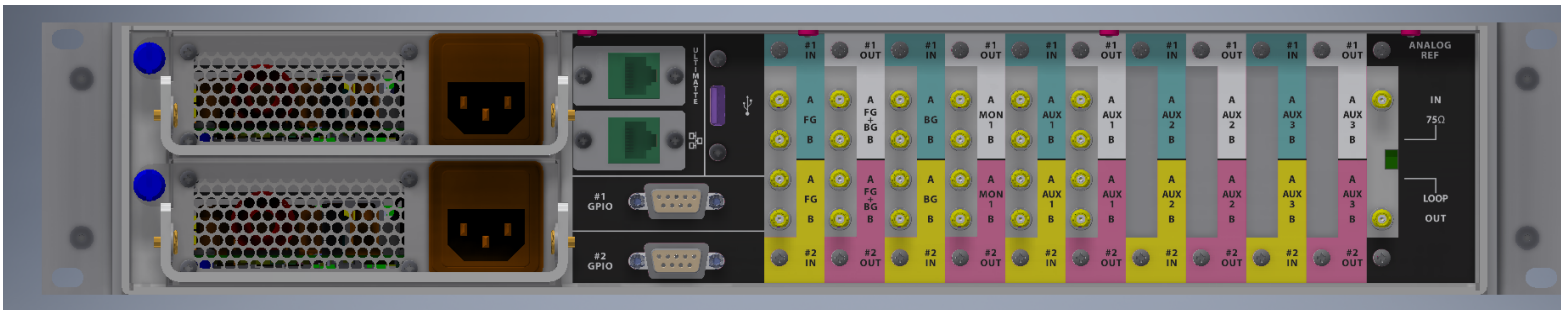
HD

UHD

Edge artifacts, spill suppression noise and artifacts, imperfect color integrity, uneven lighting, floor glare, loss of detail, and loss of shadows that plague all virtual studios, are solved with Ultimate-12's:

**Perfected Matte Algorithms  
Perfected Flare Algorithms  
Perfected Color Reproduction  
Floor Glare Reduction  
Noise Reduction**

**3 Alphas in 1 Alpha Channel Input  
External Garbage Matte Softening  
Single or Dual Channel in SD / HD incl. 1080p/50-60Hz  
Field Upgradeable to UHD  
Redundant Power Supply**



Video Inputs		
	Signal Type	Connector
SD: 720 x 525; 59.94i 720 x 625; 50i  HD: 1280 x 720; 60p 1280 x 720; 59.94p 1280 x 720; 50p 1920 x 1080; 60p 1920 x 1080; 59.94p 1920 x 1080; 50p 1920 x 1080; 60i 1920 x 1080; 59.94i 1920 x 1080; 50i  UHD: 3840 x 2160; 60p 3840 x 2160; 59.94p 3840 x 2160; 50p	<b>SD or HD</b> SD/HD SDI inputs per channel Foreground: 4:2:2 / 4:4:4 - user selectable Background: 4:2:2 / 4:4:4 - user selectable Matte In 1: 4:0:0  <b>UHD</b> Quad-link 3G-SDI Level A - Square division Quad-link 3G-SDI Level A, Two sample Interleave Foreground: 4:2:2 Background: 4:2:2 Matte In 1: 4:0:0  Reference Source – user selectable: Analog (per unit) Foreground-A (per channel)	HD-BNC (75 ohm)
Input Capture Range:	+/- 0.5H max relative to Reference Video timing	
Adjustable FG input delay	1 - 7 frames	
Video Outputs		
	Signal Type	Connector
	<b>SD or HD</b> SD/HD SDI per channel 2 x FG + BG (4:2:2) or 1 x FG + BG (4:4:4) 2 x AUX-1 (4:2:2) or 1 x AUX -1 (4:4:4) 2 x Monitor Out (4:2:2) or 1 x Monitor Out (4:4:4)  <b>UHD</b> Quad-link 3G-SDI Level A - Square division Quad-link 3G-SDI Level A, Two sample Interleave 1 x FG + BG (4:2:2) 1 x AUX-1 (4:0:0) 1 x Monitor Out (4:2:2)	HD-BNC (75 ohm)
Audio and data	All outputs include embedded audio and ancillary data from FG	
Control Interface		
	Purpose	Connector
Ethernet	Smart Remote 4 connection Control 10/100 Mbps Computer Interface	RJ-45
GPIO per channel	5 x GP In; 1 x GP Out; 1 x Talley In	D-SUB HD15 Female
Power		
	Voltage	Current
	100 VAC to 240 VAC, 50 / 60 Hz	0.30 - 0.15 A
Operating Temperature		
	0°C to +50°C (+32°F to +112°F)	
Enclosure		
	Dimensions	
	H = 8.9 cm / 3.5 in (2RU) W = 43.18 cm / 17 in D = 30.48 cm / 12 in	