virtualsets.com™

This brochure was downloaded from www.virtualsets.com Please contact us to place an order, or for any questions you have about the Ultimatte products we offer, including blue green paint and fabric.

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ultimatte 9

For The Virtual Studio

Ultimatte 9 has been specifically designed for the special purpose of virtual studio applications - the most dynamic (and most challenging) technology luring the broadcast production community today. The Ultimatte 9 offers a feature set that produces a polished virtual production where visual improvements can be seen on the screen while bottom line production costs are reduced.

ultimatte®

Ultimatte 9 is the third generation of Ultimatte's all-digital compositing devices and represents the culmination of over 20 years of experience in the field. It features the Emmy and Oscar winning technology that has gained Ultimatte Corp. a reputation for the best blue- and green-screen compositing in the world. A fully linear matting system, it produces totally realistic composites even when the foreground contains smoke, shadows, soft edges, and other transparent and translucent qualities.

DEPTH OF FIELD with BACKGROUND DEFOCUS

Ultimatte 9 includes automatic background defocusing that requires no software programming or physical hookup to the camera or computer. There is no need to assign the computer's valuable computational power, which is needed for rendering texture and detail, to defocus the background for realistic close-ups. Ultimatte 9 overcomes the logistics problems of when to defocus, where to defocus and how much to defocus, to provide a totally appropriate and realistic depth of field effect. Additionally, there are times when specific elements of the background should not be defocused. Using the Matte In input, an externally generated alpha channel will indicate to the Ultimatte 9 not to defocus on a particular background object.

IF THE BACKGROUND IS TOO SHARP, THE COMPOSITE DOESN'T LOOK REALISTIC.

NEW FEATURE

OVER EXPOSURE CONTROL

Evenly lit cycloramas are difficult to achieve and many times portions of the backing, typically near the top of the back wall, are over-exposed, creating problems with the matte. New to Ultimatte 9 is an over-exposure control that corrects the problem with no loss in the final composite.

NEW FEATURE

COLOR CONFORMANCE with AMBIANCE and COLOR CONTROLS

A truly realistic composite requires the foreground to match the color influence of the background set and lighting colors. Not only are programmable controls for RGB black, RGB gamma, RGB level and RGB saturation of both foreground and background provided, but also our new Ambiance logic has been added to analyze the background and adjust, automatically and in real time, additional foreground color parameters. When the Ambiance feature is enabled and dramatic lighting or set changes occur on air, the foreground will automatically adjust and perfectly track these background color changes.

NEW FEATURE

EDGE CONTROL with AdvantEdge and MATTE SIZING & POSITIONING

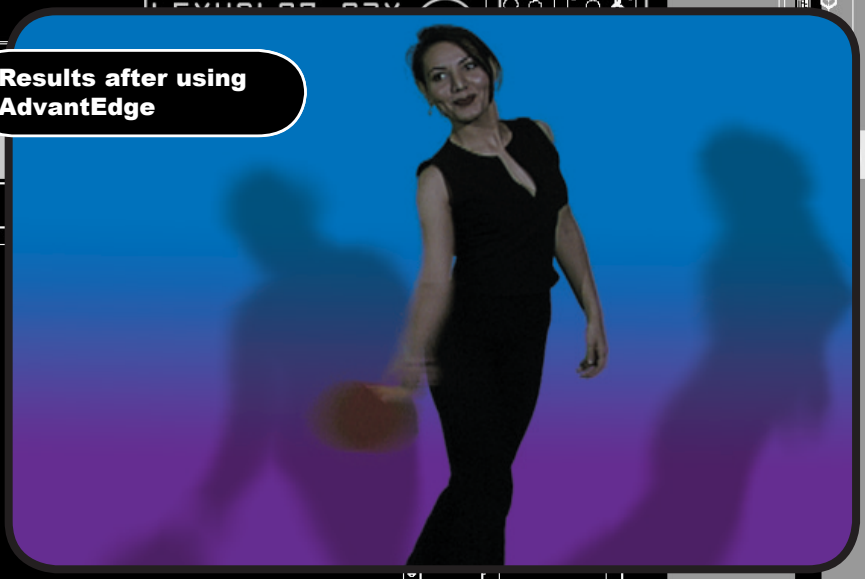
Detail generators in cameras, chromatic lens aberration, compression, excessive screen spill, over lighting, and an assortment of other esoteric phenomena can create distracting edge effects in final composites. Ultimatte 9 provides two distinct tools sets to eliminate these edge effects. AdvantEdge produces a flawless edge without the detail loss associated with typical choking and softening techniques. Additionally, sub-pixel matte sizing and positioning controls can be used alone or in conjunction with AdvantEdge for further matte edge refinement.

original with edge artifact.

composite with edge artifact.

using traditional methods to reduce edge artifact also reduces fine detail, motion blur, hair detail, and shadows

Results after using AdvantEdge



AdvantEdge

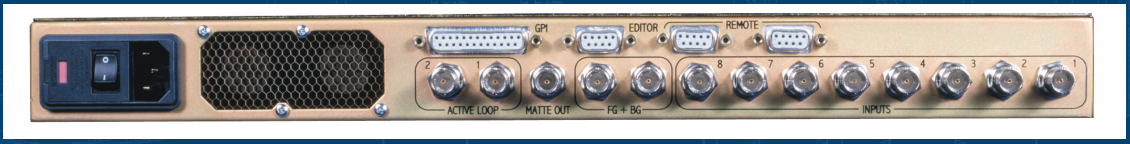
PROGRAMMABLE REMOTE CONTROL

The new Ultimatte 9 remote allows for greater access to controls with reduced menu layers. Users can now create their own menus to solve special production problems or to satisfy personal preferences. You can control up to four Ultimatte 9 units with one remote while displaying "on air" tally lights.

The high-contrast display and inputs for an optional PS2 keyboard and mouse interface provide the optimum in user convenience.

EIGHT-INPUT ROUTER

You can configure the new 8-input router so that any of the inputs can used for the Foreground, the Background or a Matte signal, providing much more versatility than a fixed input configuration.



ADDITIONAL

§ Conforms to CCIR 601 and SMPTE-29M-C Standards
§ 10-bit or 8-bit Serial Inputs and Outputs
§ Internal Foreground and Matte Processing: 4:4:4:4
§ 525/625 auto-selectable

SPECIFICATIONS

Video

525/625 Line Standards	Auto Selectable	
Input/Output Resolution	4:2:2	
FG Input		4:2:2
BG Input		4:2:2
Matte In		4:0:0
Digital Reference		4:2:2
FG and BG Out	4:2:2	
Matte Out		4:0:0
Internal FG Processing and MATTE generation	4:4:4	
Relative Input Timing (DIGITAL REF IN)		TBD
Inputs		Eight Serial CCIR 601, BNC 75 with two programmable active loop-through outputs
Outputs	Serial CCIR 601, BNC 75	

Data Control

Remote		RS422, DB9 Female
Editor Interface	RS232/RS422, DB9 Female	
GPI		Contact Closure/TTL, DB25
PC Port (on remote)	RS232, DB9 Female	

Power

Mains	100V to 240V AC, 50/60 Hz 1A (at 120 VAC)

Dimensions

Main Unit	Width x Depth x Height
Size	17.0in x 21.0in x 1.75in 43.18cm x 53.34cm x 4.45cm
Weight	20 lbs 9 kg

Remote Control	Width x Depth x Height
Size	17.0in x 7.0in x 1.75in 43.18cm x 17.78cm x 4.45cm
Weight	8 lbs 3.6 kg

Specifications Subject to Change Without Notice

ultimatte® corporation

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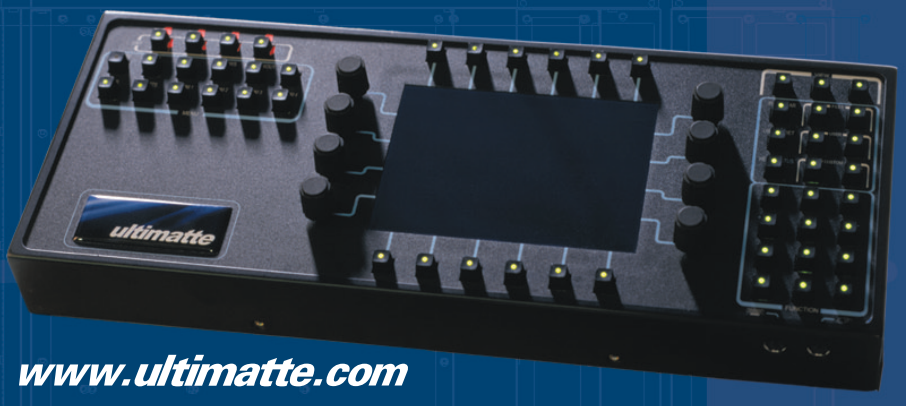

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