

Fast Electronic Makeup Artist

Cameras do not see as the human eye does. High definition and harsh lighting can add unwanted skin detail. Million dollar studio cameras have built in circuits to correct this. Now you too can have that power in your post production workflow. The Fast EMA plugin, much like the original Electronic Makeup Artist, does selective smoothing of skin tones while using edge detection techniques to maintain enough detail to avoid an overly blurry, "vaseline lens" look. Although the Fast EMA plugin is not as flexible as the original EMA, it is easier to use. This simplicity translates into increased speed both in workflow and processing and means it is generally about 2 to 3 times faster than EMA.



How to install the Fast EMA plugin

After download, you should find a folder called FastEMA containing an installer and these instructions. Double click on **FastEMA.pkg** to install SSfastEMA.fxplug into the /Library/Plug-Ins/FxPlug folder.

How to use the Fast EMA plugin

Fast EMA (or FEMA) is an FxPlug plugin for use in Apple's Final Cut Pro and Motion software. It is compatible with FCP 6 and higher and Motion 3 and above. It requires at least 10.5 (Leopard) of the operating system. FEMA makes use of the power of your GFX card to do its rendering, thus does not load down your CPU.

FEMA generates a mask based on standard skintones. This mask is used to determine where smoothing occurs. You can adjust the mask to suit your situation. You may alter the mask density and the detail retention. Fast EMA contains an Advanced section for blocking unwanted smoothing when it's high-speed skin selection routines mistakenly pick up areas of your image you do not want smoothed.

The easiest way to use FEMA is to activate the Show Mask checkbox so you can see the results of your adjustments and play with the controls until you get the results you're looking for, then turn off Show Mask. The goal should be to achieve adequate skin smoothing while avoiding an over-smoothed "plastic-y" look.

Because FEMA keys into standard skintones, if you are planning on adding a stylized "look" to your material (for instance with the Movie Color plugin), it is best to add FEMA first, before anything that may alter the skintones. However, if skintones are "off" due to localized lighting conditions, it would be better to correct for that prior to adding FEMA.

Softness	
Mask Density	
Mask Detail	
Mask Contrast	
Show Mask	
	Advanced

Fast EMA plugin Control Description

Fast EMA's basic controls are simple and in most cases are all that is needed to achieve a good result. You may control the Softness, Mask Density, Mask Detail and Mask Contrast. The Show Mask Checkbox makes these changes easily visible.

If you have problems with smoothing occuring in unwanted areas of your image, Open the Advanced section to generate a Cutout Mask. See the Advanced section below for more details.

	•- <u>û</u> •[
--	----------------	--

10

Softness controls how much the skin is smoothed. Don't overdo it as this can result in a unnatural "plastic-y look".

Softness

Mask Density	4-11 + 1 + 1 + 1 = 9
--------------	----------------------

Mask Density controls how "thick" the mask is. This mask will determine where and to what degree the smoothing is applied. Subjects with darker skin or in lower lighting conditions may require higher Mask Density levels to achieve adequate skin smoothing. The Mask Density setting may be more efficient than Mix to control the mixing of the original image and the smoothed one.

Mask Detail	18
-------------	----

Mask Detail controls how much detail is retained and "shows thru" the mask..



Mask Contrast affects both the detail retention of the mask and the areas of the image that are smoothed.







Show Mask
Show Mask makes the areas that will be smoothed visible by showing them as white.
▼ Advanced
Cutout Mask There are times when Fast EMA's high-speed skin selection routines mistakenly pick up areas of your image you do not want smoothed, like the red shirt in the image here. To correct for this, you can use the Advanced Cutout Mask. Be aware that this does cause increased overhead during render.
Cutout Color Cutout Color Turn off Show Mask, then use the eyedropper to
sample the color most representative of the area you want excluded from smoothing. Then turn back on Show Mask to see if you need to adjust the Cutout Mask.



Grow Mask	
Soften Mask	<
Clamp Mask	

Grow, Soften, Clamp Mask alter the mask generated by the Cutout Color. At left you can see how they can be used to "clean up" the mask. Grow expands the mask. Soften blurs the mask. Clamp is a threshold, the lower it is set, the higher the mask's contrast. Note: this can only be seen in how it "eats away" at the skintone mask.

<image/>		Hue Threshold Sat Threshold Luma Threshold	• • • • • • • • • • • • • • • • • • •
		Hue, Sat, and Luma Thresholds adjust the chroma key that is used for the Cutout Mask. They deter- mine how close an image color has to be to be in order to be included. The higher the thresholds, the closer the color must be to be included. Note: this can only be seen in how it "eats away" at the skintone mask.	
		cause loss of detai	Advanced Advanced as can be oversmoothed and l or generate light artifacts (like t). The Advanced Cutout Mask se too.