

Canon C300 Alexa Color Emulation Matrices v1.0  
Developed by Art Adams, 1/24/13  
www.artadamsdp.com

Tungsten		Daylight	
Matrix:	EOS Standard	Matrix:	EOS Standard
Gain:	-34 (or to taste)	Gain:	-35 (or to taste)
Phase:	+8	Phase:	0
R-G	+41	R-G	+26
R-B	-12	R-B	-10
G-R	0	G-R	+14
G-B	0	G-B	+7
B-R	0	B-R	0
B-G	+2	B-G	+8

Use at your own risk. When in doubt, test.

**IMPORTANT NOTE:**

These settings attempt to replicate aspects of the Arri Alexa's built-in Rec 709 colorimetry.

**IT DOES NOT TURN YOUR CANON C300 INTO AN ALEXA REPLACEMENT.**

Arri Alexa's look is unique to that camera and can not be replicated perfectly by any other camera.

Thanks to Chater Camera for their assistance  
www.chatercamera.com

Detail circuit settings are not included. When we compared camera detail we discovered that setting the C300 detail circuit to its lowest value resulted in an image that was still sharper than the Alexa. Adjust it to your own taste.

As color and gamma are completely decoupled in the C300 you can use this matrix with any gamma, although be sure to test this first to make sure the results are to your liking. I like Cinema1 and Cinema2 myself.

THESE SETTINGS WILL NOT TURN YOUR CANON C300 INTO AN ARRI ALEXA REPLACEMENT. I've attempted to replicate aspects of the Alexa's colorimetry in a camera whose design and color science are completely different in every way, using very coarse tools whose settings sit on top of Canon's proprietary color science. The C300 doesn't have the subtlety of color that Alexa offers, nor can it match Alexa's dynamic range, and it doesn't duplicate that delicate Alexa softness that makes everyone and everything look great. On the other hand, the C300 is less expensive and much smaller and lighter, and is the perfect tool for certain projects.