Cobalt Digital Inc.

2406 E. University Ave.
Urbana, IL 61802
Voice 217.344.1243 • Fax 217.344.1245
www.cobaltdigital.com • info@cobaltdigital.com

System Solutions Application Note

Unified Color Correction Control for On-Set Monitor Wall

You've probably noticed that the use of video wall processors for on-set virtual backdrops has become increasing commonplace in the content production market. The flexibility and visual impact that these systems provide has enhanced the experience of the viewer and the content producer alike.

There are a myriad of wall processors available to the technical producer, and while some have the native ability to perform internal color correction across all displays, ***most do not***.

We know the advantages of performing color correction for individual on-set monitors to match the native colorimetry characteristics of the cameras being used, but what do we do when we need to control multiple discreet signals/monitors in a unified fashion?

The answer is the Cobalt® suite of color correction solutions, which include:

- The **OGCP-9000/CC Remote Control Panel** which provides a unified, single point-of-control for multiple devices
- **Color Corrector** cards, such as our **9084** and **9064** cards (which both also includes frame sync)
- Software-option licensable **Color Correction Feature (+COLOR)**, which is available for a wide range of processing cards that support signals from SD up to 3G 1080p to further leverage the functionality of these card.

When the OGCP-9000/CC is configured in the "Master Mode" it can control 100's of individual color correctors as one, effectively letting the operator "paint their canvas" of multiple display devices as one unified display. This established and easy to use RGB-space color corrector technology offers YCbCr proc features and is available on Cobalt® cards that offer full frame sync capabilities. This means that each channel has independent video delay available to correct for the inherent delay properties of the display devices being used. The end result is perfect sync and color balance across all displays even if they are different models, manufacturers, or technologies such as LCD, LED, or projectors.

Our economical, compact BlueBox™ 3G/HD-SD-SDI to HDMI Converters allow SDI signals to be fed directly to monitor HDMI inputs, with full 3G transfer to these monitors.