ADVANCED ILLUMINATION

Quad Controller Series

DCS – 400E   Single Output 4 Channel

DCS – 800E   Dual Output 8 Channel

Controller Features

- ❖ Multi-channel controller
- ❖ Channels can be synchronized or run independently
- ❖ Strobe and/or continuous modes
- ❖ Compatible with all vision system cameras

Uses Ai's Multiple Lighting Configurations

- ❖ Segmented / Quadrant Ring Lights
- ❖ Multi-Wavelength Lights
- ❖ Multi-Axis Single Lights (e.g. Dark Field / Bright Field)
- ❖ Multiple Individual Lights

Product Applications

Computational Imaging (CI) applies to digital image processing and enhancement techniques to generate images not readily available from single-shot imaging.
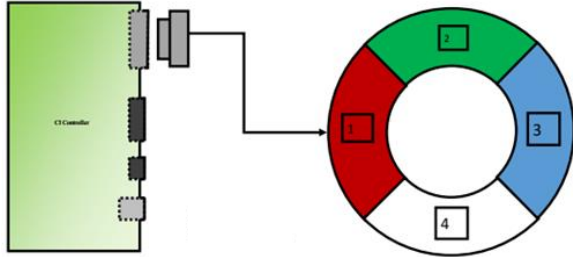
- ❖ Photometric Stereo / Quad Control
- ❖ High Dynamic Range Imaging (HDR)
- ❖ Multi-spectral / Wavelength
- ❖ Extended Depth of Field
- ❖ Sequential Multi-Light / Axis Imaging
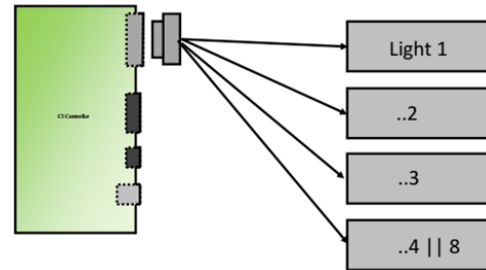
Inquiries : info@advancedillumination.com

Quad Controller Available to Ship in Early 2019

Quad Controller Series – Lighting Configurations

Example: RGB Single Light Source

Example: Multi Light Array

Requires 4 Major Components

❖ Lights
❖ Controller – Handles the communications and triggering I/O
❖ Communications and setup software (provided)
❖ Third party vision system to accomplish image processing

Specifications - Preliminary	DCS-400E & DCS-800E Quad Controller Series
Input Power Requirements	24V DC Nominal, 4.5A
Output Power	Up to 100W Total
Channel Control	4 or 8 channels synchronous, asynchronous or any combination
Modes	Continuous, Pulsed, or Gated Continuous
External Trigger I/O	24V DC Typical; tolerant 5 – 30V
Pulse Width Range	10 uSec to 1 hour
Trigger-to-Pulse Latency	10 uSec
Duty Cycle/Frequency Mode	15% duty cycle limit in overdrive/pulsed Higher duty cycle in continuous -on mode
Operating Temp. Range	-23C to 52 C
Dimensions (mm) / Weight	97 L x 41.7 W x 128.9 H / 680 g
Communications	10/100 Ethernet Standard TCP -IP, UDP
Software	.NET library compatible w/ C#, Windows