OC-G-5646-2-ET Industrial OLED lighting Controller

- 2 channels of independent control

- Extremely fast, stable light output

- Safe overdrive limits

- Specifically designed for OLED lighting

- Compatible with CCS OLED panels

- Gardasoft triniti™ Ethernet communications including GigEVision compatibility

- Compatible with Gardasoft triniti™ utilities

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OLED panels have many benefits in machine vision applications because they give an exceptionally stable and uniform light intensity across the width of the panel. They are also very thin and can be moulded into complex shapes. However, OLED lights are challenging to control because the physical properties inherent in OLED panels demand sophisticated drive techniques to obtain fast and accurate pulsing.

The Gardasoft controller makes use of innovative techniques to obtain performance which reaches the very limits of OLED physical capabilities. The result is extremely fast, highly-accurate, very stable light pulses.

Gardasoft OLED lighting controller is fully-compatible with the CCS range of OLED panels.

GigE Vision Integration

The OLED lighting controller is fully GigE Vision compliant. Ethernet capability includes a Web Server which allows the devices to be controlled by image processing software or Explorers on a remote PC. With the introduction of GigE cameras, the Machine Vision market is moving towards Ethernet and the advantages of high speed, long distance, standardisation worldwide and inexpensive implementation.

The Gardasoft OLED controller as full access to product-specific data that is stored within the CCS OLED panel. This provides full plug-and-play capability and ensures that the panel can be overdriven without risk of damage to the panel. Lifetime usage data provides dependable end of life management.

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GARDASOFT
Industrial LED technology

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Communications and Control

The Gardasoft Industrial OLED controller forms part of the Gardasoft triniti™ machine vision platform which gives users seamless access and control of system cameras, lighting and lenses, all within the same environment. This can be a standard image processing package or the triniti™ SDK which is available for free download from www.gardasoft.com. In addition to LabVIEW support, utilities are also available for other leading machine vision imaging software packages such as Cognex VisionPro, Teledyne Dalsa Sherlock and Stemmer Imaging CVB.

The OLED controller can also be controlled using simple string commands sent from an application program using TCP/IP or UDP. All configuration is stored in non-volatile memory providing turn-key operation.

The controller provides fine control of intensity, even of OLED panels rated at 20mA. The dual range ouput provides high stability and high resolution at all currents. This controller is excellent choice for safely overdriving OLED panels.

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Parameter	Specifications
Output Channels	2 independent precision constant-current outputs
Current Drive	Pulse max 10A, Continuous max 2A
Current Drive Resolution	Steps of 6mA (0.3A to 10A) and 100uA (0 to 0.3A)
Output Voltage	Max 46V
Output Power	Max 56W per controller
Ethernet	100base-T
Triggers	2 opto-isolated digital inputs. 3V to 24V operation
Pulse Delay	4us to 10ms in steps of 1us
Pulse Width	100us to 10ms in steps of 1us
Timing repeatability	+/- 1us
Power supply	24V +- 10% at 10A
Operating temperature	0 - 40 °C
Humidity	20% - 85% non-condensing
Dimensions	112 (length) x 140 (width) x 61 (height) mm
Standards	CE, RoHS, REACH
Mounting	6 off M4 clearance holes on integral mounting flanges. Fix to heatsinking surface. DIN rail mounting option.
Communications	GigE Vision V2.0, GenICam, UDP/TCP, Third party protocols