



PP1600 Series LED Lighting Controllers Multi-channel LED controllers with Ethernet option

The PP1600 series LED lighting controller range provides very fast accurate large current pulses for high end applications.

With new generation LEDs the PP1600 series can provide high intensity pulses which exceed the brightness of xenon strobes.

- 16 channel LED lighting controllers
- Pulsing up to 20A per channel
- 8 trigger inputs
- RS232 or Ethernet connection
- Designed for new generation LEDs
- Compatible with most machine vision LED lighting

# Application benefits

- Very fast bright strobing for freezing motion
- Very repeatable lighting intensity
- Driving the LEDs with a constant current, rather than voltage
- Ability to pulse the output at a higher current to achieve a higher output intensity
- Pulsing turns the LEDs off when not in use, increasing their MTBF rates, reducing downtime

# **Miniature Web Server**

The PP1620 Ethernet versions LED lighting controllers have all of the features of Gardasoft's LED lighting controllers with the addition of an Ethernet connection.

The PP1620 acts as a miniature web server and can be controlled by images processing software on a remote PC.

All versions can be remotely controlled and dynamically configured using commands sent from an image processing application on a remote PC.

## **Flexible operation**

Three modes of operation are provided separately for each channel:

Continuous:	Output is a continuous level
Pulsed:	Output is pulsed once per trigger
Switched:	Output is switched by a digital input

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#### **Options for configuration**

The PP1600 Series has models with options for configuration via RS232 or Ethernet. With the Ethernet options, a web browser can be used to access the PP controllers' internal Web pages allowing status to be viewed and parameters to be changed.

The PP1600 Series also has options to be configured using simple string commands sent from an application program using RS232, TCP/IP or UDP.

The Gardasoft Vision website 'www.gardasoft.com' has a free download of a demonstration program (with fully commented source) showing how the PP1600 can be controlled from a PC using  $C^{++}$ .

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@ 192.168.8.73/channel.cgi? ×	
← → C [] 192.168.8.73/channel.cgi?	chan=0 ☆ =
GARDASOFT VISION	
LED Lighting Controller - Lighting	Channel 0 Configuration
PPCC1620 (HW01) V101pre07, s	erial number 630005
Mode:	Pulse •
Output Current:	0.5000A
Pulse Delay:	500.00ms
Pulse Width:	20.0us
Retrigger Delay:	0.0us
Click to update	Submit

# SPECIFICATIONS

	PP1620	PP1621	PP1660	PP1661		
User interface	Ethernet		RS232			
Output channel	16 independent constant current outputs					
Output current	20A pulsed 2A continuous Steps of 6mA	2A pulsed 2A continuous Steps of 1mA	20A pulsed 2A continuous Steps of 6mA	2A pulsed 2A continuous Steps of 1mA		
Trigger inputs	8 opto-isolated digital inputs. Require 3V to 24V					
Lighting pulse width timing	1µs to 1ms in steps of 1µs, variation <1µs					
	1ms to 1 second in steps of 100µs, variation <5µs					
Lighting delay timing	4µs to 1ms in steps of 1µs, variation <5µs					
	1ms to 1 second in steps of 100µs, variation <10µs					
Output voltage	1.5V to [supply voltage] – 1V					
Supply voltage	12V to 48V regulated DC					
Dimensions	280mm by 54mm by 78mm					
Weight	700g					
Mounting	Panel mount or optional DIN rail kit (Gardasoft PP705)					

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