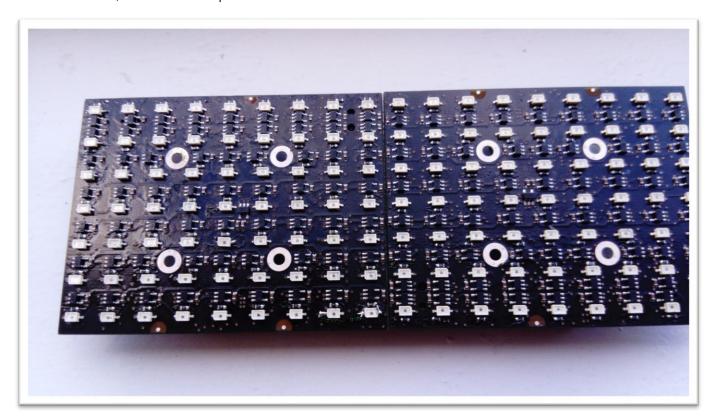
PHOTOARRAY

Photodiodes array board

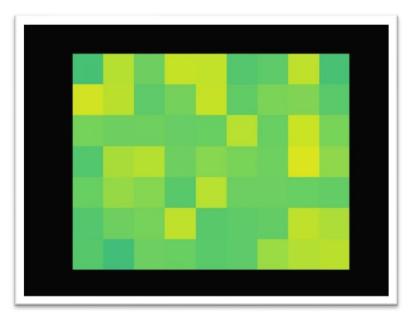
PhotoArray is an array of photodiodes placed at a fixed pitch to measure the incident light on them.

In addition to the array of photodiodes, it also contains the electronic necessary to measure the current through them and a microcontroller capable of digitizing such currents and transmit them, via serial communication, to an external processor.



Applications

- Light calibration
- Industrial illumination
- Optical instruments
- Research & Development



Graphical representation of incident light on PhotoArray



Features

illoi es	
Photodiodes array	 63 photodiodes Matrix 9x7 Pitch 9mm
Photo diodes	Everlight PD93-21C / TR8
ADC	12 bits ADC resolution.12Mhz internal clock
Communication	 RS-485 Up to 16 boards on the same bus Resistor for RS485 bus termination configurable with microswitch
Temperature	Internal temperature sensor +-0.5°C
Id configuration	4 microswitch for ID configuration of the board
Power	9-12V DC input rangeImax: 500mA
Microprocessor	PSOC5 LP family of microprocessor by Cypress. Based on ARM Cortex-M3 core
Dimensions	80x62mm. 4 holes for fixing M2.5
Available documentation	 User Guide Functional & Characteristics description Protocol communication Schematics Tina simulator file

Special requirements, other questions

If you need special requirements please let us know, we can help you. We can adapt this system to your requirements regarding photodiode and array needed.

Contact us for further information.

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Doc: CP030-DOC06-PhotoArray_Brochure_V1.0

