



Key Features

- Overdriving function
- Current pulse control < 80A
- Fast current response < 0.5 μ s
- Max. Switching freq. 300kHz
- Auto LED voltage < 80V
- Min. pulse duration: 0.5 μ s
- Support LED protection
- Trigger sequence generator

Application

- Fast moving object capturing for area scan camera (Flying review)
- Controlling exposure for TDI line scan camera
- Where High power LED is required

High-power, High-speed LED controller with Safe & User-friendly Technology

Overdriving for high-power & high-speed LED current control

- Generates repeatable fast & high-power pulse for instant and accurate strobing LED
- Driven by high-speed pulse current less than 0.5 μ s with overdriving function
- Able to acquire the signals up to 300kHz

Provides uniform brightness of lighting output without ripple

- Current-control ensures no change in cable resistance and length
- Protection from switching noise and external noise of power for uniform lighting

Auto-adjustment LED driving voltage function

- Auto-adjustment of voltage for easy & efficient use and LED protection
- Adjusts LED brightness controlling not voltage but current

TDI Exposure control function

- Controlling exposure time for TDI line scan cameras by LED
- Maintaining uniform quantity of light regardless of speed change

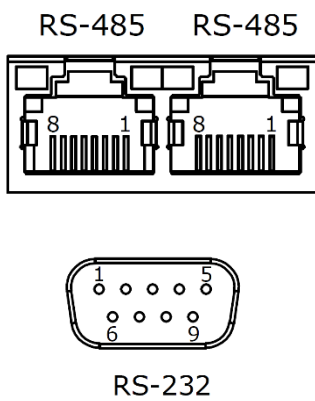
Improvement LED's durability

- LED is always protected by automatically limiting the pulse width and duty cycle

1. Specifications

Model	IP-1P1S-80A
Interface	RS-485 & RS-232
Drive type	Constant current
No. of Channel	1
Min. Pulse width	0.5µs
Max. Switching frequency	300kHz
LED Voltage	1~80V
Max. Power (Continuous / Pulse)	30W / 6,400W
Current (Continuous / Pulse)	5A / 80A
Overdriving	0
Sequence control	0
Power protection	0
No. of strobe controllers configurable	Max. 250 (Modbus Protocol)

2. Interface Pin-map.



RS-485 PORT PIN CONFIGURATION		
3	RS485 Data(A)+	Non-inverting receiver input & driver output
6	RS485 Data(B)-	Inverting receiver input & driver output
4	Trigger Input -	Trigger input RJ45 Port -
5	Trigger Input +	Trigger input RJ45 Port +
7,8	GND	Ground
RS-232 PORT PIN CONFIGURATION		
2	RXD	Receive Data
3	TXD	Transmit Data
5	GND	Ground

3. Mechanical Dimensions

