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Innovation to the Core



inVISION TOP INNOVATION 2025

inspect award 2025 winner

iPulse

COM Series

iCore Smart LED Strobe Controller

Perfect Compatible
with diverse global lighting products

Cost Effciency
Competitive High-Performance Strobe Controller

Powerful Overdrive
Up to 10x Overdrive

Individual channel Triggering
Flexible Lighting Control

Min. Pulse Width
≥ 4µs

On The Fly Inspection
Providing brighter images at high-spped magnification

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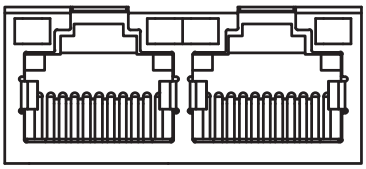
iPulse COM Series

Specifications

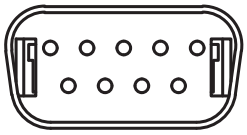
Model	No. of channel	Min. Pulse width	Max. Switching freq.	Max. Voltage output	Max. Current output (Continuous/Pulse)	Max. Power Output (Channel / Total)	Sequence Control
IP-COM2-02	2	4μs	70kHz	48V	2A / 2A	48W / 200W	O
IP-COM2-10	2				2A / 10A	48W / 200W	O
IP-COM2-20	2				2A / 20A	48W / 200W	O
IP-COM4-02	4				2A / 2A	48W / 200W	O
IP-COM4-10	4				2A / 10A	48W / 200W	O
IP-COM4-20	4				2A / 20A	48W / 200W	O
IP-COM8-02	8				2A / 2A	48W / 250W	O
IP-COM8-10	8				2A / 10A	48W / 250W	O
IP-COM8-20	8				2A / 20A	48W / 250W	O
IP-COM16-02	16				2A / 2A	48W / 300W	O
IP-COM16-10	16				2A / 10A	48W / 300W	O
IP-COM16-20	16				2A / 20A	48W / 300W	O

Interface Pin-map.

RS-485 RS-485



RS-232

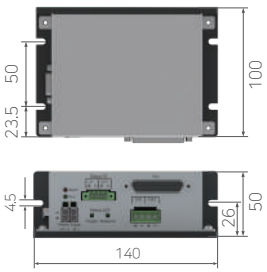


RS-485 PORT PIN CONFIGURATION		
3	RS485 Data(A)+	Non-inverting receiver input & driver output
6	RS485 Data(B)-	Inverting receiver input & driver output
4	Trigger Input -	Trigger input RJ45 Port -
5	Trigger Input +	Trigger input RJ45 Port +
7,8	GND	Ground

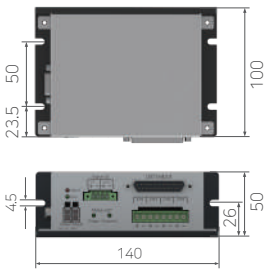
RS-232 PORT PIN CONFIGURATION		
2	RXD	Receive Data
3	TXD	Transmit Data
5	GND	Ground

Dimensions (mm)

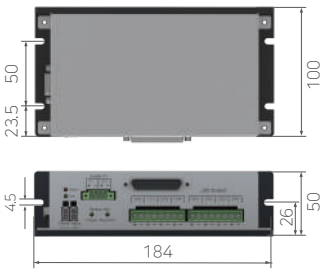
2channel



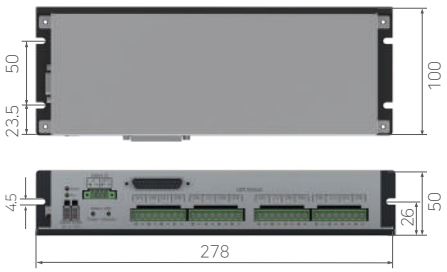
4channel



8channel



16channel



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iPulse 'A' Series

iCore Smart LED Strobe Controller

Max. Frequency
300kHz

Powerful Overdrive
Up to 10x Overdrive

Ultra-fast pulse generation
≤0.5μs at up to 200A

On The Fly Inspection
Providing brighter images at high-spped magnification

Fast Current Response
0.5μs

Perfect Compatible
with diverse global lighting products

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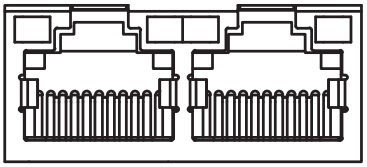
iPulse 'A' Series

Specifications

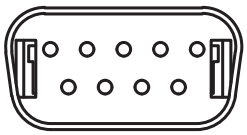
Model	No. of channel	Min. Pulse width	Max. Frequency	Max. Voltage output	Max. Current output (Continuous/Pulse)	Max. Power (Per Channel / Total)
IP-1P1S-20A	1	0.5μs	300kHz	80V	2A / 20A	30W / 30W
IP-1P1S-50A	1			80V	5A / 50A	30W / 30W
IP-1P1S-100A	1			80V	5A / 100A	30W / 30W
IP-2P2S-20A	2			80V	2A / 20A	30W / 60W
IP-2P2S-50A	2			48V	5A / 50A	125W / 250W
IP-2P2S-200A	2			48V	20A / 200A	250W / 500W
IP-2P2S-200B	2			48V	20A / 200A	500W / 1000W
IP-4P4S-20A	4			48V	3A / 20A	75W / 300W
IP-4P4S-50A	4			48V	3A / 50A	75W / 300W
IP-8P8S-20A	8			48V	3A / 20A	75W / 600W

Interface Pin-map.

RS-485 RS-485



RS-232

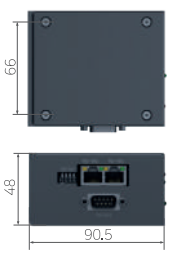


RS-485 PORT PIN CONFIGURATION		
3	RS485 Data(A)+	Non-inverting receiver input & driver output
6	RS485 Data(B)-	Inverting receiver input & driver output
4	Trigger Input -	Trigger input RJ45 Port -
5	Trigger Input +	Trigger input RJ45 Port +
7,8	GND	Ground

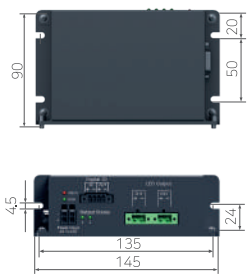
RS-232 PORT PIN CONFIGURATION		
2	RXD	Receive Data
3	TXD	Transmit Data
5	GND	Ground

Dimensions (mm)

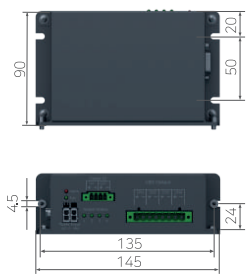
1channel



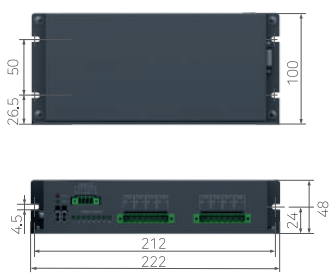
2channel



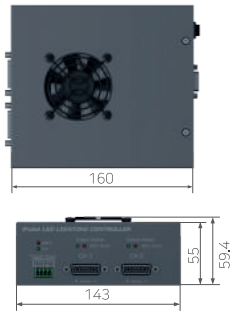
4channel



8channel



IP-2P2S-200A
IP-2P2S-200B



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iPulse Flashing Series

iCore Smart LED Strobe Controller

Powerful Overdrive
Up to 10x Overdrive

Multi Sequence
One scan, multiple images acquired

Ultra-fast pulse generation
≤0.5μs at up to 200A

On The Fly Inspection
Providing brighter images at high-spped magnification

Fast Current Response
0.5μs

Perfect Compatible
with diverse global lighting products

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iPulse Flashing Series

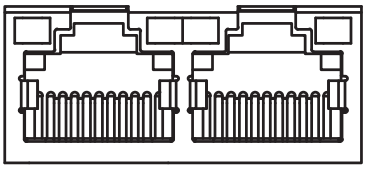
iCore Smart LED Strobe Controller

Specifications

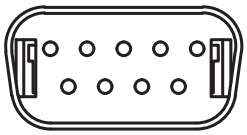
Model	No. of channel	Min. Pulse width	Max. Frequency	Max. Voltage output	Max. Current output (Continuous/Pulse)	Max. Power (Per Channel / Total)
IP-1P1S-200A	1	0.5μs	1kHz	80V	5A / 200A	30W / 30W
IP-1P4S-20A	4			80V	0.2A / 20A	30W / 30W
IP-1P4S-50A	4			80V	0.5A / 50A	30W / 30W
IP-1P4S-100A	4			80V	1A / 100A	30W / 30W

Interface Pin-map.

RS-485 RS-485



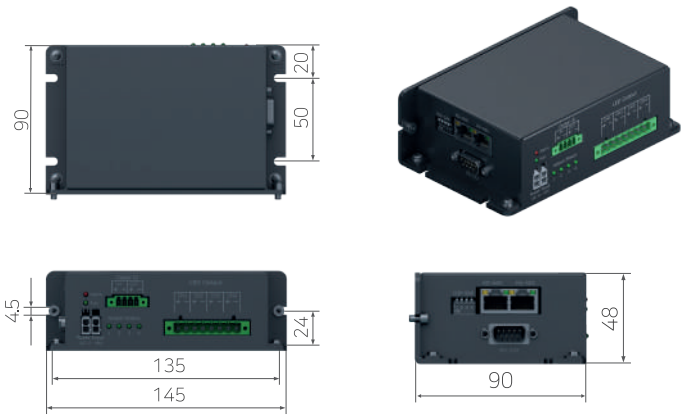
RS-232



RS-485 PORT PIN CONFIGURATION		
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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

Dimensions



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iPulse 'C' Series

iCore Smart LED Strobe Controller

Max. Frequency
300kHz

Multi Sequence
One scan, multiple images acquired

Ultra-fast pulse generation
≤0.5μs

On The Fly Inspection
Providing brighter images at high-spped magnification

Fast Current Response
0.5μs

Global Brand Compatibility
Compatible with a wide rangeof major global LED brands

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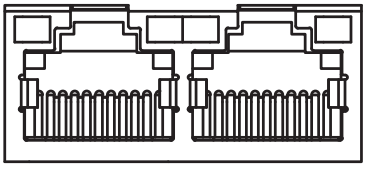
iPulse 'C' Series

Specifications

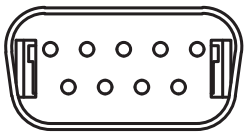
Model	No. of channel	Min. Pulse width	Max. Frequency	Max. Voltage output	Max. Current output (Continuous/Pulse)	Max. Power (Per Channel / Total)
IP-1P1S-2C	1	0.5μs	300kHz	80V	2A / 2A	30W / 30W
IP-1P1S-5C	1			80V	5A / 5A	30W / 30W
IP-1P1S-30C	1			48V	30A / 30A	500W / 500W
IP-2P2S-2C	2			80V	2A / 2A	30W / 60W
IP-2P2S-5C	2			48V	5A / 5A	125W / 250W
IP-4P4S-1C	4			48V	1A / 1A	75W / 300W
IP-4P4S-3C	4			48V	3A / 3A	75W / 300W
IP-8P8S-3C	8			48V	3A / 3A	75W / 600W

Interface Pin-map.

RS-485 RS-485



RS-232

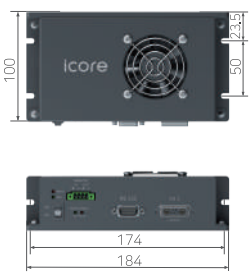


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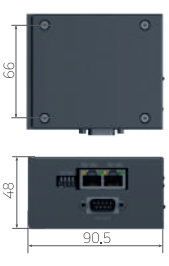
RS-232 PORT PIN CONFIGURATION		
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Dimensions (mm)

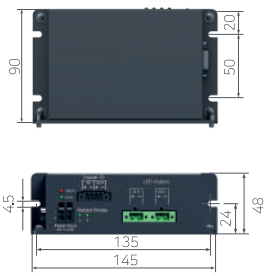
IP-1P1S-30C



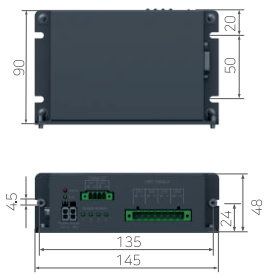
1channel



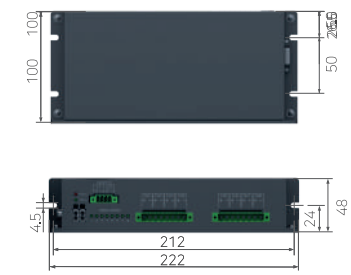
2channel



4channel



8channel



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