

Digital Fiber Spot Lights **OPT-DOFP Series** **New**



Product Features

- Up to 2500k lux illuminance
- Integrated light control circuit design
- Ethernet and RS232 interfaces
- Programmable and external triggers available; up to 50kHz trigger frequency

Application Cases

- Replacement of halogen lights with fiber
- Medical illumination
- Semiconductor equipment
- General industrial illumination

Selection Guide

OPT-DOFP150

- Power
- Digital fiber spot light
- Brand name

Customizable Items

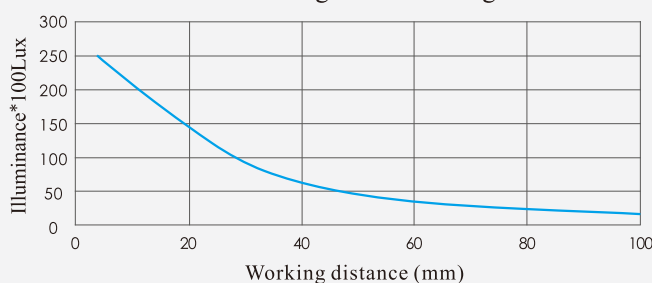


Fiber length



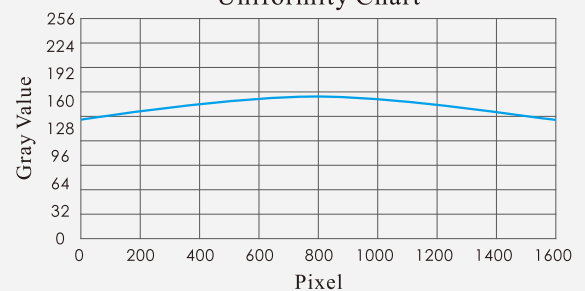
Fiber emitting surface diameter

Illuminance change over working distance



Test result based on 20 mm FOV with OPT telecentric lens

Uniformity Chart



Remarks: The OPT telecentric lens (FOV: 20mm) is equipped with in the test. The data above is for reference only.

Application Example

- Mobile phone LCD screen defects detection



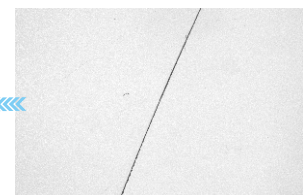
Workpiece



Illumination



SciSmart Analysis Result



Image

Model Table

No.	Model	Input Voltage ○	* Output Power ○
1	OPT-DOFP150	110~240V	150W

* Note: The data is for reference only.

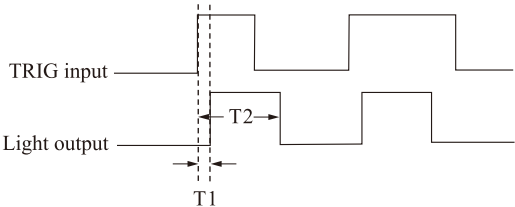
Specifications

Item	Parameter	Description
Input voltage	100-240V AC	50/60Hz
Light intensity	256 levels	Set via the adjustment knob or DEMO software
Short circuit protection	Yes	Protection shuts down the related channel and “ER2” displays.
Overcurrent protection	Yes	When the current is over 10% of the set value, the related channel is shut down and “ER1” displays.
Trigger mode	Level trigger	High level: 5-24V; low level: 0-2V
Normal trigger	256 intensity levels settable	
High-intensity trigger	8A per channel	
Normal trigger pulse width	1μs-30s	Set via the adjustment knob or DEMO software (The time unit can only be set via the software.)
High-intensity trigger pulse width	0.01-5.00ms	Set via the adjustment knob or DEMO software

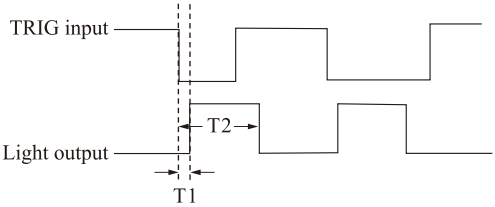
Item	Parameter	Description
Programmable trigger	Yes	Both the intensity and pulse width can be set.
Response time	≤15μs	
Trigger frequency	50kHz	
Output power	120W	
Communication	RS232 / Ethernet	
Standby power consumption	18.2W	220V input
Hi-Pot test	AC1500V 1min	Leakage current < 10mA
Insulation	500V DC	Insulation resistance > 20MΩ
Operating temperature	-5℃-50℃	
Dimensions (mm)	164x178x186	Please refer to the drawing for details.
Weight (kg)	3.72	

Response Time and Sequence

Rising edge trigger



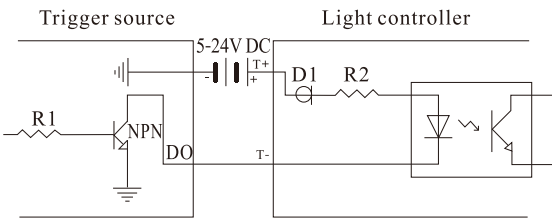
Falling edge trigger



Remarks: T1 is the enabling response time (≤15μs);
T2 is the trigger pulse width (Range: 1μs-30s).

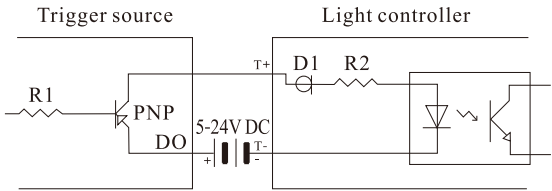
Trigger Wiring Reference

(1)NPN Wiring



Trig input circuit for NPN type trigger

(2)PNP Wiring



Trig input circuit for PNP type trigger

Dimensions (mm)

