

The logo for Hecho, featuring the word "Hecho" in a bold, blue, sans-serif font. A small red inverted triangle is positioned above the letter "h".

A magnifying glass with a black frame and a clear lens is centered over a white search bar. The search bar contains the text "http://www.gohecho.com" and a green search icon to its right. The background behind the search bar is a grey textured surface.

<http://www.gohecho.com>



2017 Catalog

NANJING HECHO TECHNOLOGY CO., LTD



Our Advantages:

Hécho



Halogen light source



Multi-branch bundles

.....

Professional production,
meet to various design
requirements



Fiber optic amplifier



Threaded sensor



LED light source



Straight light guide



Dual arm light guide



Ring light guide



Line light guide



Tailed fibers



Fiber illumination



Silica fiber



Light source module



Machine visions

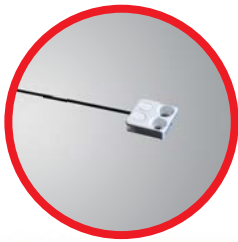
Professional Optical Fiber & Illuminator Manufacturer

Professional service,
to provide system
solutions

Provide more cost-effective
products, Lowering the
operating costs

Constant pursuit of
perfect quality, to sincere
cooperation with you

Energy conservation and
environmental protection
product design concept



Flat-thin sensor



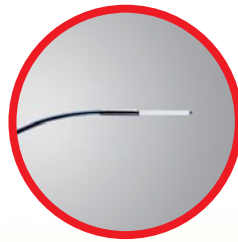
Wide area sensor



Heat resistant sensor



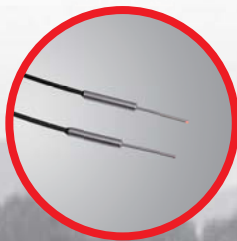
Sensor lens



Liquid-level sensor



Cylinder sensor



Defined light sensor



MITSUBISHI POC



Toray POF

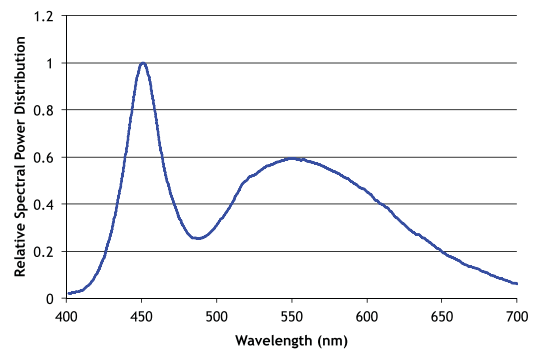


AsahiKASEI POF

S5000 LED light source



- The highest brightness LED cold light source in the field
- 60w high brightness LED chip and patent optical focusing system
- Alternative 250 w metal halide lamp as high power fiber illuminator
- Color rendering index Ra70 / Ra90 optional
- Support high-speed trigger function, response time is less than 1 um
- Support red/blue/green light order



Specification

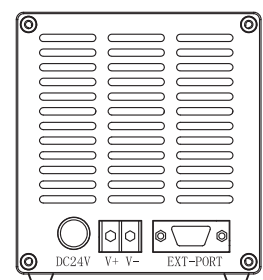
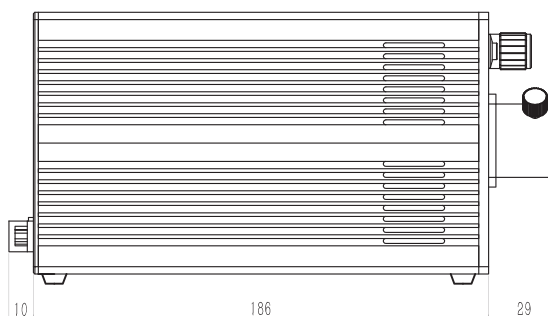
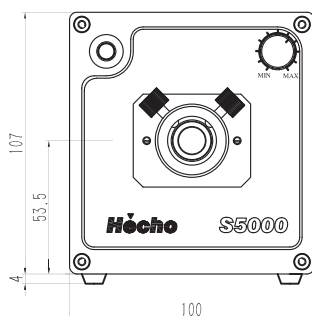
Item	LED Light Source
Model	S5000
Drive mode	The adjustable current, maximum voltage limits
Input voltage	AC90-250V power adaptor, (DC24V/5A) Or 24V Dc power supply
Power consumption	65W Max (Not Incl. AC-DC)
Dimming method	Manually adjusted potentiometer / Analog control DC 0-5V / Digital signal PWM(200Hz-100KHz) External voltage/PWM Level 5V Max
*Av illuminance	572,000lx
Stroboscopic time	>10us
Color temperature	6500K
CRI	Ra>70
LED life	Normal life >30,000h
Cooling system	Body+high speed fan
Operating condition	-20 to +50°C/20%-80%RH (No condensation)
Installation	Desktop or bottom case 4 - M3 screws
N.W.	2.2kg
Dimension	225(L)*100(W)*114(H) mm

DB9 Connector specification

1	TRI High-speed trigger pins (DC5-12V, High level effective)
2	5V Internal power output (2mA max)
3	ADJ Potentiometer dimming signal (Potentiometer tap pin)
4	DIM (External dimmer 0-5V Analog voltage Or 5V PWM)
5	EN (External standby signal pin)
6	GND
7	GND
8	GND
9	GND

*The average luminance is at 50mm from the fiber output at maximum volume when a Hecho standard light guide (GOF-C-58H-1000-F1) is attached.

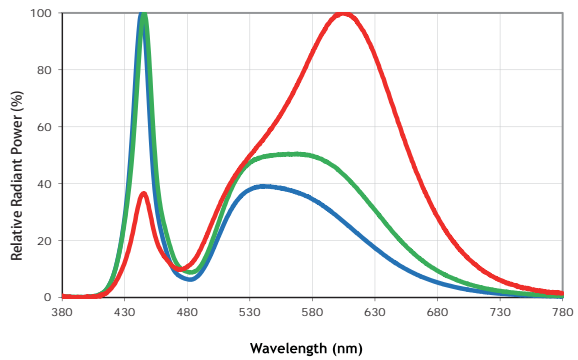
Drawing



S3000 LED cold light source



- Higher power output, body cooling design, longer life
- Higher brightness LED chip, special focus system
- Complete machine with 20w power consumption
- AC or DC power supply
- Compact appearance, outside with fixed groove design



Specification

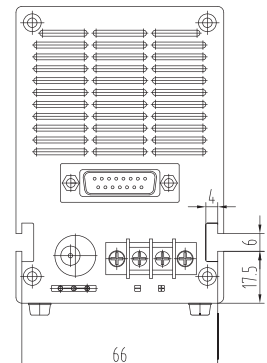
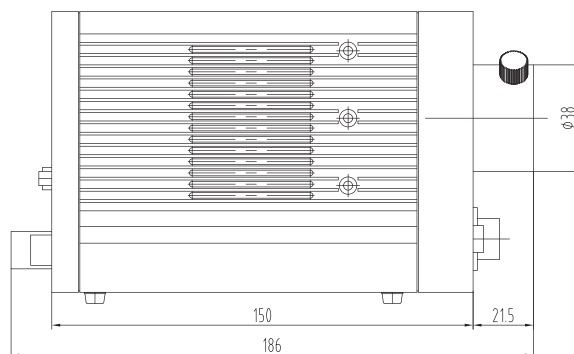
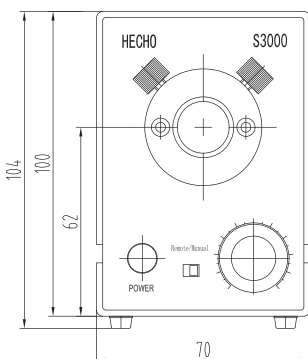
产品名称	LED Cold light source	
型号	S3000	S3000W
驱动方式	Constant-current system	
输入电压	AC96-240V power adaptor / DC 24V 1.5A	
功耗	15W Max.	
亮度调节方式	Continuous Dimming / 0~5v Analog Control / PWM 200Hz 5V	
*平均照度	143,000lx	114,000lx
色温	6500K	3000K
LED寿命	Approx.30000 Hours	
散热方式	Body+high speed fan	
工作温度湿度	0°C to +45°C/20%-80%RH	
安装方式	Horizontal installation on rubber supports at the bottom of unit or Side T slot	
净重	840g	
尺寸	186(L)×72(W)×104(H) mm	

DB9 Connector specification

1	ON DC3.5-24V/OFF <DC1.5V
2	GND
3	NC
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	External PWM/DC0-5Vdimming signal input +
11	GND
12	NC
13	NC
14	NC
15	NC

*The average luminance is at 50mm from the fiber output at maximum volume when a Hecho standard light guide (GOFCS8H-1000-F1) is attached.

Drawing



B5100/5200 Halogen light source



- Switching power supply design, low power consumption, high light efficiency
- No heavy power frequency transformer
- Wide voltage range, output voltage stability
- Soft start, effectively protect bulbs and PCB
- Good heat dissipation design, low lighting temperature
- Optional analog control function, more suitable for assembly line work

Specification

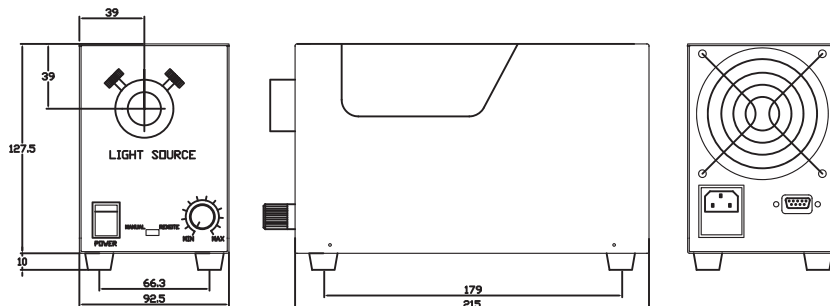
Model	B5100	B5200
Power supply	AC220V , AC110V, 50/60Hz	
Lamp spec.	OSRAM 12V 100W	PHILIPS 21V 150W
Rated life	50Hours	200Hours
Dimming method	Manual + Analog control 0-5V	Manual + Analog control 0-5V
*Av illuminance	Approx. 80,000Lx	Approx. 120,000Lx
Color temp.	3100k(4200k filter installed. changable)	
Operating condition	0°C to +45°C/20%-80%RH	
N.W.	2.0 KG	
Dimension	215(L)×90(W)×127(H)mm	

DB9 Connection specification

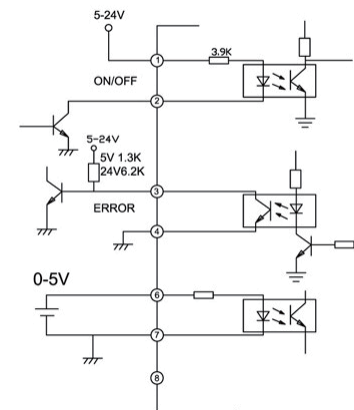
No.	Item
1	Switch signal>DC1.5V OFF
2	Switch signal GND
3	NC
4	NC
5	NC
6	External dimming signal DC 0-5V
7	External dimming signal GND
8	NC
9	NC

*The average luminance is at 50mm from the fiber output at maximum volume when a Hecho standard light guide (GOFCS8H-1000-F1) is attached.

Drawing



Input/output circuit diagram



H-100/150 Halogen light source



- Switching power supply design, low power consumption, high light efficiency
- No heavy power frequency transformer
- Wide voltage range, output voltage stability
- Soft start design, effectively protect bulbs and PCB
- Good heat dissipation, low lighting temperature
- Self power-off protection design, to avoid accidents

Specification

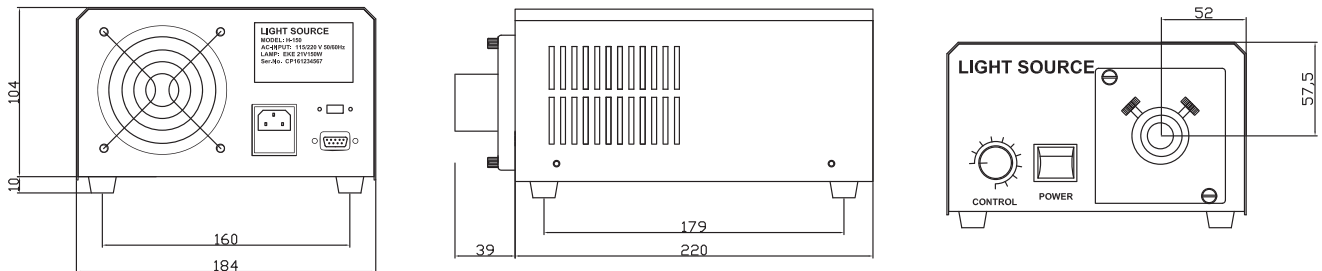
Model	H-100	H-150
Power supply	AC96-240V, 50/60Hz	
Lamp specification	OSRAM 12V 100W	PHILIPS EKE 21V 150W
Lamp rated life	50 Hours	200 Hours
Dimming control	Manual + Analog control 0-5V	Manual + Analog control 0-5V
*Av illuminance	Approx. 80,000Lx	Approx. 120,000Lx
Color temperature	3100k(Light source device installed 4200 k color filter, replaceable)	
Operating condition	0°C to +45°C/20%-80%RH	
N. W.	2.5 KG	
Dimension	215(L)*90(W)*127(H) mm	

DB9 Connector Specification

No.	Item
1	Switch signal >DC1.5V OFF
2	Switch signal GND
3	NC
4	NC
5	NC
6	External dimming signal DC 0-5V
7	External dimming signal GND
8	NC
9	NC

*The average luminance is at 50mm from the fiber output at maximum volume when a Hecho standard light guide (GOF-C-S8H-1000-F1) is attached.

Drawing



SF Illuminator head for Fiber



- High power LED light source, can be combined with tailed series Ringlights or Line lights;
- Combined with fiber optic can provide more uniform light distribution and effective intensity of illumination;
- More flexible installation;
- Combined with tailed fiber series, can be used in narrow space, effective isolation light source heat to provide real cold illumination;
- With dedicated variable constant current power supply S1200, provide stable illumination.

Model	Color	Wavelength	Color temperature	Max. current	Weight
SF-W016	White		5600K	1.6A	Approx. 120g
SF-R007	Red	620nm-630nm		0.7A	Approx. 120g
SF-G010	Green	520nm-535nm		1.0A	Approx. 120g
SF-B010	Blue	465nm-485nm		1.0A	Approx. 120g

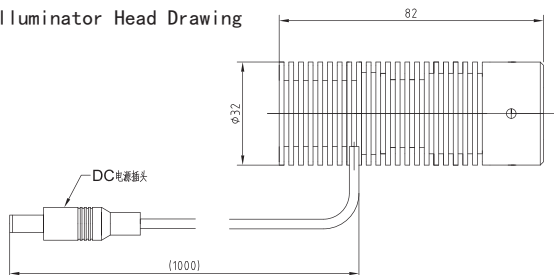
SC Coaxial spot light



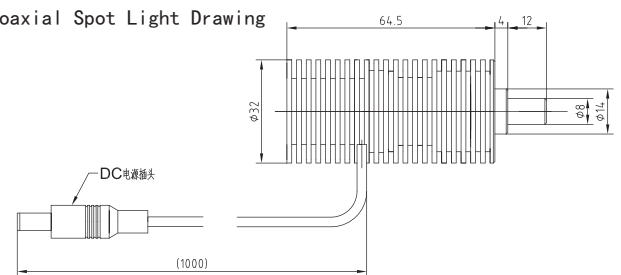
- High power LED coaxial spot lighting;
- Unique cooling structure to enhance luminous efficiency;
- Efficient focusing optical system design, maximize the light intensity and the light uniformity;
- Four kinds of color optional, easy to user selection;
- With dedicated variable constant current power supply S1200, provide stable illumination.

Model	Color	Wavelength	Color temperature	Max. current	Weight
SC-W8-016	White		5600K-8000K	1.6A	Approx. 100g
SC-R8-007	Red	620nm-630nm		0.7A	Approx. 100g
SC-G8-010	Green	520nm-535nm		1.0A	Approx. 100g
SC-B8-010	Blue	465nm-485nm		1.0A	Approx. 100g

SF Illuminator Head Drawing



SC Coaxial Spot Light Drawing



★ Cautions:

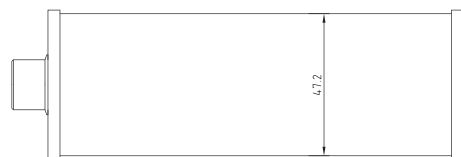
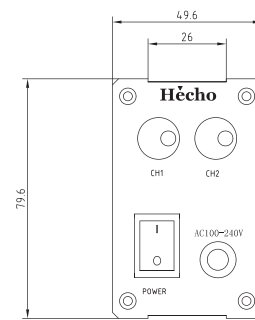
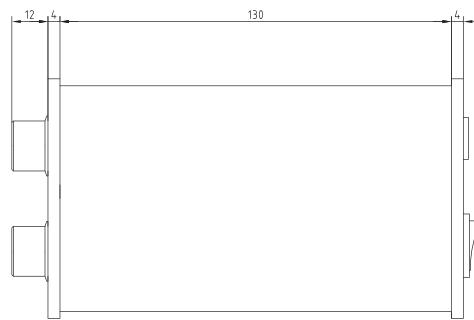
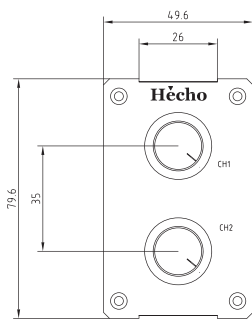
Before operation, please confirm LED working current matches with the analog control units output. Otherwise, LED chip maybe damaged.

Analog Control Units



- Suitable for various of double channel output;
- Brightness stepless adjustable;
- Short circuit protection.
- Constant current control, fine adjustment of light intensity can be gained to obtain the best exposure;
- Super small volume, convenient integration installation;
- Solid aluminium shell, ensure stable performance;

Item	2 channel analog control units
Model	S1200
Output	Independent 2-channel
Input voltage	AC90V-240V 50/60Hz
Output	DC continuous output.2A max/channel
Drive way	Constant-current (current adjustable)
Operation condition	0~+45°C/20%-80%RH
Net weight	Approx.500g



LED light source module



- Heat pipe + mute fan heat dissipation structure design, the realization of high power output of long life;
- Using special high power LED lamp bead and unique condenser system, the illuminance value soared;
- Support analog voltage and PWM external light dimmer;
- High-speed trigger, switch response < 5 us, realize ultra-high speed stroboscopic;
- Ra90 high color rendering index design;
- The whole units with aluminum alloy shell, more compact size;
- Provide the LED lamp bead overheating shutoff protection function.

Specification

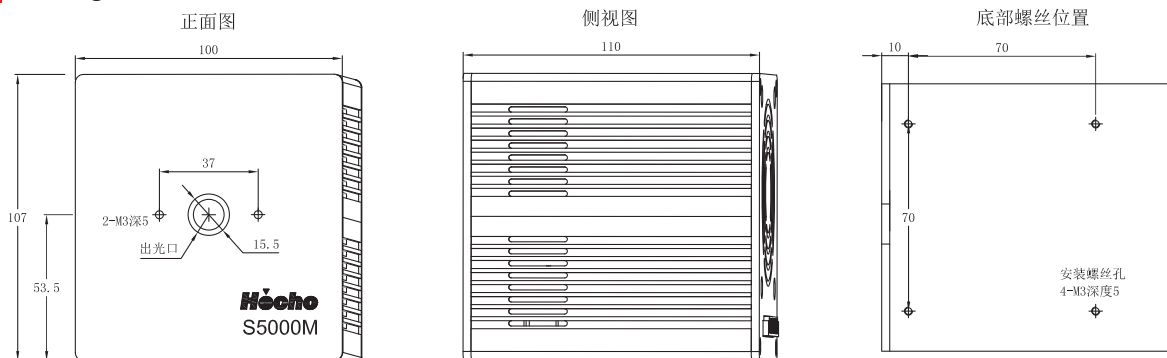
Item	High power LED light source module
Model	S5000M
Drive mode	Constant current mode driver
Input voltage	AC90-250V power adaptor(DC24V/5A)or 24V DC power supply
Power consumption	65W Max
Dimming method	Manual adjusted potentiometer / Analog control DC 0-5V / Digital signal PWM(200Hz-100KHz) PWM 5V
*Av illuminance	>320,000lx
Color temperature	5400K
CRI	Ra90
LED life	Normal life >20,000h
Cooling system	Heat pipe + mute fan
Operating condition	-20 to +50°C/20%-80%RH (No condensation)
Installation	bottom case 4 - M3 screws
N.W.	840g
Dimension	110(L)*100(W)*107(H)mm

Pin definition sheet

1, 2	V+(DC24V)
3, 4	V- (Power Ground)
5	Mechanical switch lead 1
6	Mechanical switch lead 2
7	EN-external signal switch ON (0-0.5VDC) ; OFF (2.5-12V)
8	DIM (External dimmer 0-5V Analog control Or 5V PWM)
9	GND (public)
10	Potentiometer output
11	5V Benchmark output
12	TRI (External high speed trigger port DC2.5-12V)

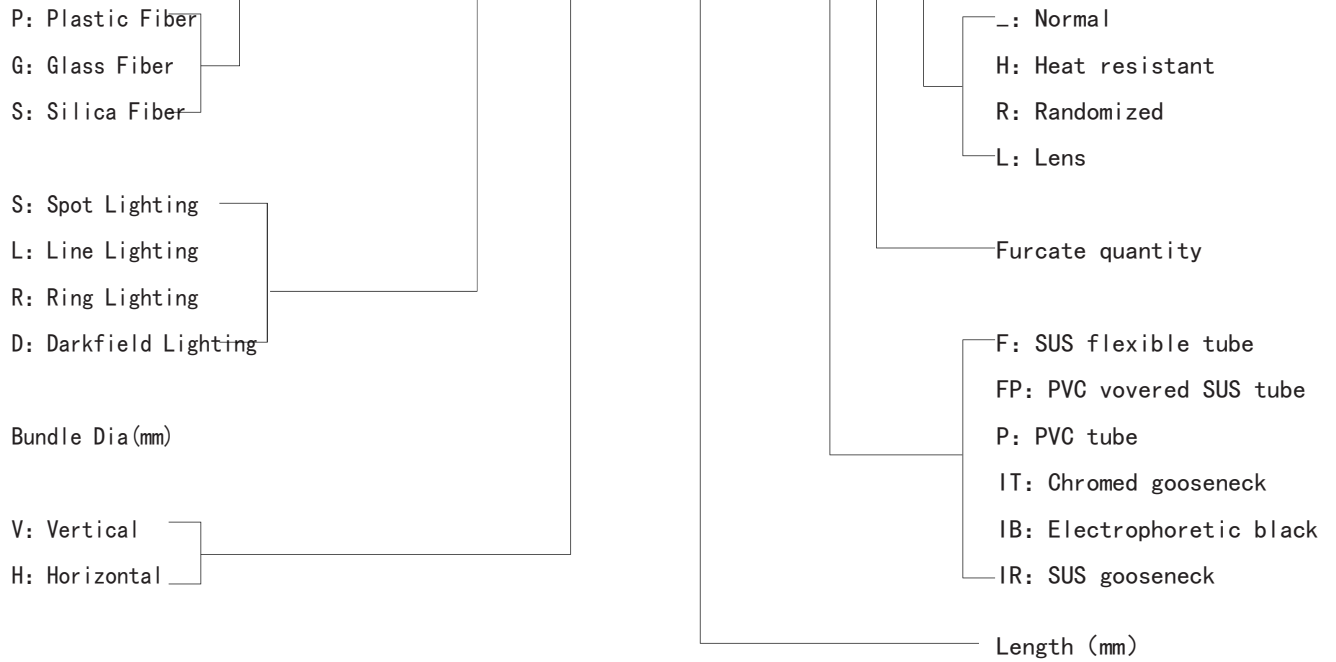
*The average luminance is at 50mm from the fiber output at maximum volume when a Hecho standard light guide (GOFCS8H-1000-F1) is attached.

Drawing



Fiber Optic Bundles

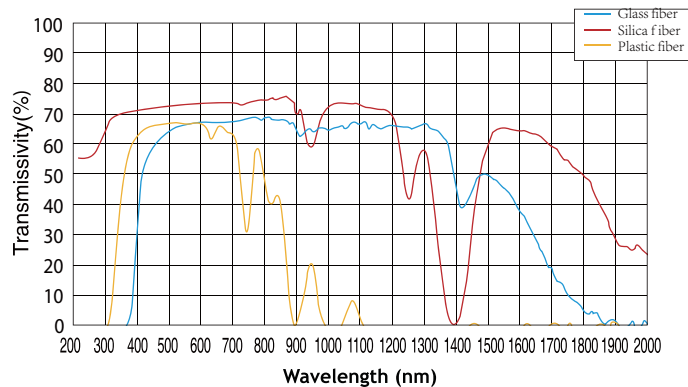
GOF C-S8H-500-F2H



▶ Technical Data

Materials	Glass Fiber	Plastic Fiber (PMMA)	Silica fiber
Fiber diameter	30 μm / 50 μm / 70 μm	125μm 175μm 250μm 500μm 750μm 1000μm	100μm 200μm 400μm 600μm
Number Aperture (N. A.)	0.54/0.64	0.5	0.22/0.37
Aperture angle	65° / 80°	60°	25° / 44°
Operating temperature	Standard: <180°C	Standard: <75°C	Standard: <200°C
	Heat resistant: <350°C	Heat resistant: <105°C	Heat resistant: <500°C
Durability	Good	Great	Normal
Heat resistance	Great	Normal	Great
Transmission	Good	Good	Great

▶ Spectral Transmission of Different Optical Fiber materials

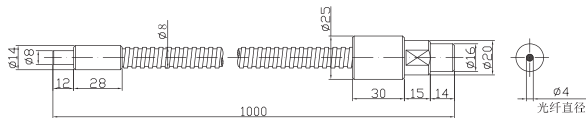


Straight Light Guide

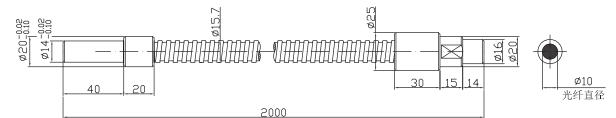
- Free bending, flexible use;
- Selects the high transmittance optical fiber materials;
- Transmission spectrum 190nm-2500nm;
- Variety of standard interface;
- OEM & ODM is available



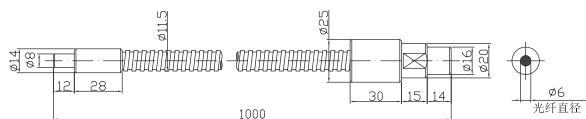
POFC-S4H-1000-F1
GOFC-S4H-1000-F1



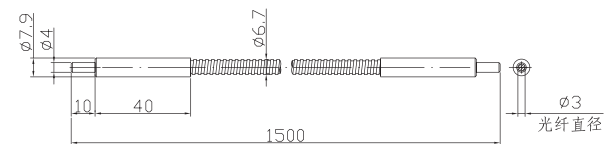
POFC-S10H-2000-F1
GOFC-S10H-2000-F1



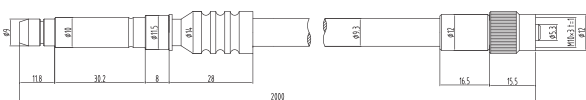
POFC-S6H-1000-F1
GOFC-S6H-1000-F1



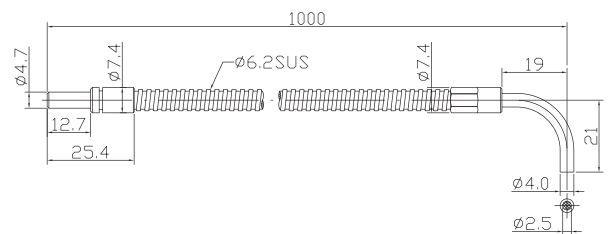
GOFC-S3H-1500-F1H
SOFC-S3H-1500-F1



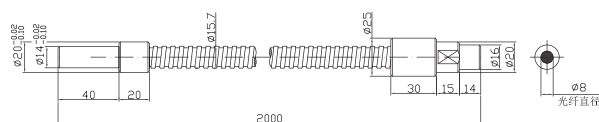
GOFC-S4H-2000-FP1



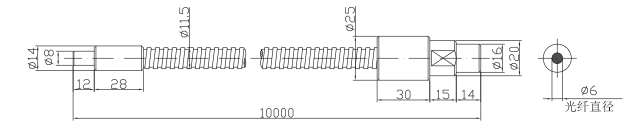
GOFC-S2.5H-1000-F1H



POFC-S8H-2000-F1
GOFC-S8H-2000-F1



POFC-S6H-10000-F1
GOFC-S6H-10000-F1

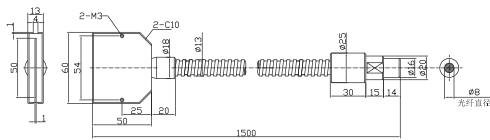


Line light guide

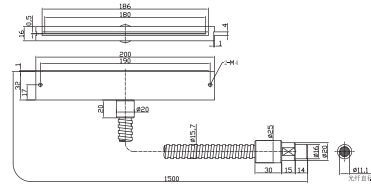
- Linear out of light design;
- High-intensity, seamless uniform linear lighting;
- Cylindrical lens is available to increase the light intensity;
- Select high transmittance of fiber materials, implementation of UV to IR fiber linear distribution;
- OEM & ODM service is available.



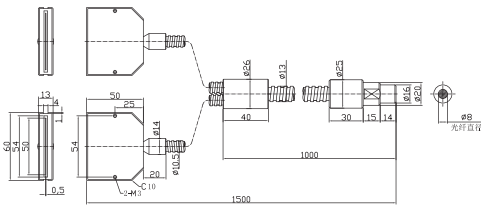
POFC-L50H-1500-F1
GOFC-L50H-1500-F1



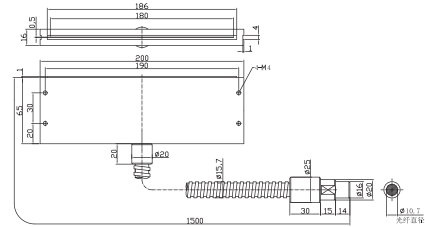
POFC-L180H-1500-F1



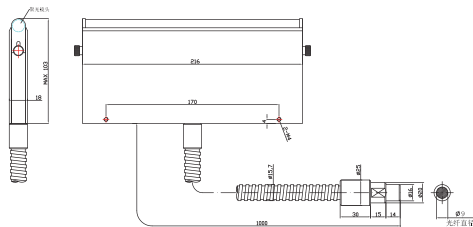
POFC-L50H-1500-F2
GOFC-L50H-1500-F2



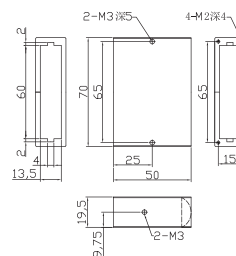
GOFC-L180H-1500-F1



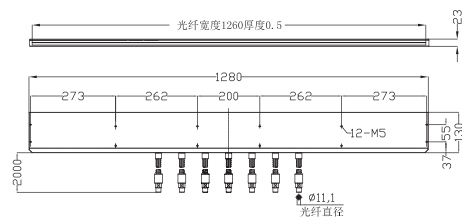
POFC-L200H-1000-F1L
GOFC-L200H-1000-F1L



L-50



POFC-L1260H-2000-F7



Medical Laser Fiber



- Optical fiber materials meet medical standards, can be disinfection sterilization, which is accord with the requirement of biocompatibility, which entered the body, meet the demands of high power laser.

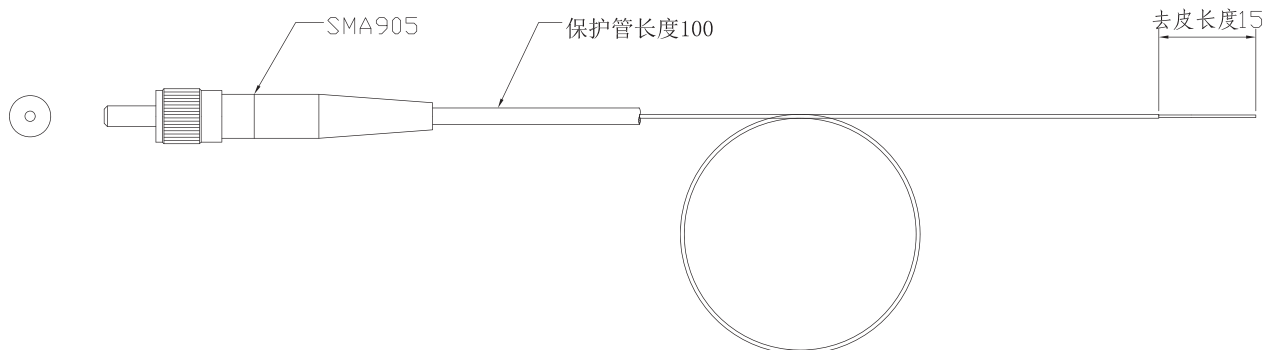
Fiber type	HCS/PCS
Fiber dia.(μm)	200/300/400/600/800 μm
Length	Customized
Wavelength(nm)	200~1100/350~1700
N.A.	0.22/0.37
Transmittance	≥80% (632.8nm)
Connector	SMA905/SMA906/FC/ST Or Customized

Holmium laser medical fiber



- Holmium laser medical fiber is a kind of special used for the transmission of large power holmium laser medical optical fiber, mainly used to treat kidney stones, prostatitis, fat cutting, etc.

Fiber type	HCS
Fiber dia.(μm)	275/365/550 μm etc.
Length	Customized
Wavelength(nm)	400~2500
N.A.	0.22
Power	≤800W/cm ² 550μm Silica fiber, Nd:YAG CW laser
Transmittance	≥80% (632.8nm)
Connector	SMA905/SMA906/FC/ST Or customized



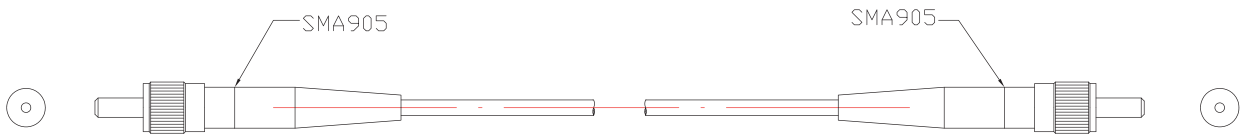
Spectrum detection fiber



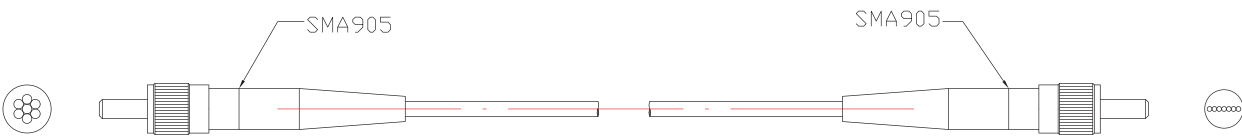
➤ The fiber wavelength can be 190~1100nm or 400~2700nm. It is widely used on popular spectrometers. OEM or ODM is welcome.

Fiber type	HCS/PCS
Fiber dia.(μm)	200/300/400/600/800μm etc.
Length	Customized
Wavelength(nm)	190~1100/350~1700/400~2500
N.A.	0.22/0.37
Connector	SMA905/SMA906/FC/ST Or Customized

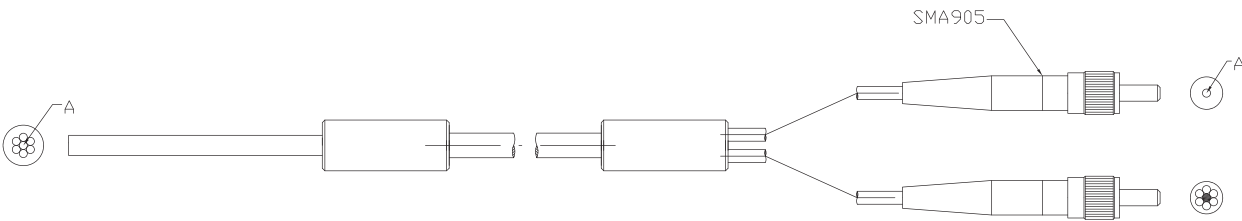
■ Patch Cord Assemblies



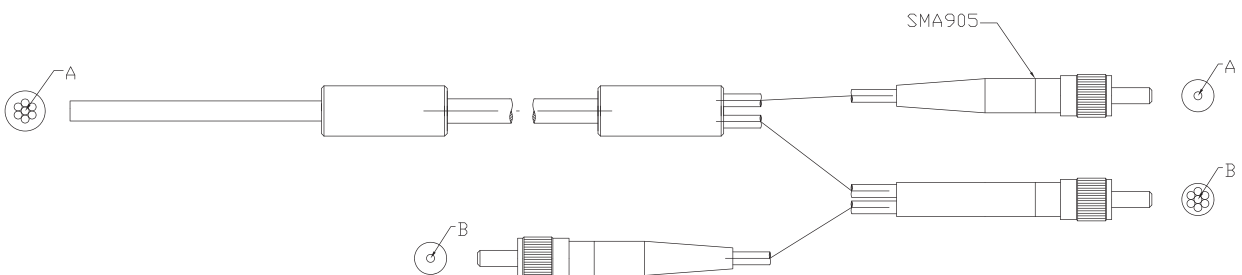
■ Round to Keyed Linear Fiber



■ Y shape Premium Reflection Probe



■ Z Shape



ODM/OEM Optical Fibers

HECHO has a strong R & D capability and rich experience in the industry and production, we can manufacture various fiber optic bundles according to customer requirements, and provide a complete fiber optic transmission program. Our products are widely used in various industries, such as printing chromatography equipment, infrared polarized pain treatment, edge machine, cigarette testing, environmental water quality analysis.



➤ Applicable to Taiyo colour register control system DT-860MII, DT-950MII, to test on the gravure printing overprint error between various groups, and automatically real-time correction.



➤ used for BOBST Registron® color printing equipment. Through preventive correction can be extremely precise register control quickly.



➤ Semiconductor cutting machine fibers, used for blade damage detection BBD performance same as HPF - P223.



➤ Suitable for use in Komori LG and GS series printing machines, the side gauge electric eye, detection of slanting. Performance compared to FU-2412

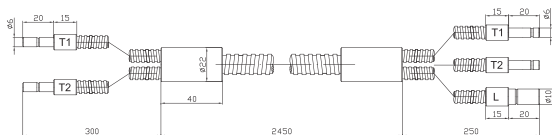


➤ Super Lizer Therapy Fiber optic cables, use Germany imported high transmission rate glass fiber, Single tube or Y-type cable is available for customized.

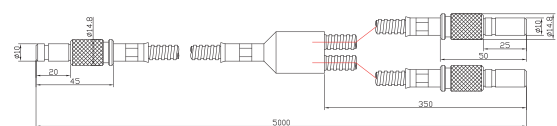


➤ For extremely sensitive PCR instruments, any minor differences in detection of the optical path are scaled up at an exponential level. We can effectively guarantee the transmission fiber transmittance, insertion and reflection loss.

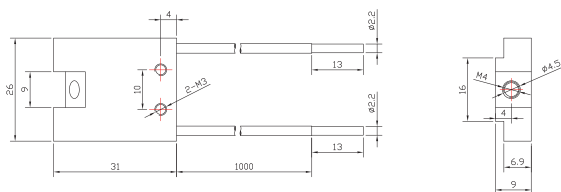
DT-950



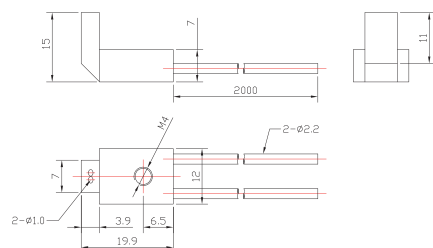
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HPF-P223



PR-2412





Nanjing Hecho Technology Co., Ltd.

Address: No. 381, Pugang Street, Nanjing, China. ZIP: 211102

Telephone : 86-025-52374096 025-52360905 Fax: 025-52374095

Website: <http://www.gohecho.com>

E mail: sales@gohecho.cn owen@gohecho.com



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