



FIBER OPTIC ILLUMINATOR

Illumination Light Source

Product Information

Fiber Optic Illuminator *Brighton I Series*



The **Brighton I Series Model PT1101/1102** is a high quality yet cost effective fiber optic illumination cold light source.

The features and performance enhancement are incorporated into this units are tailored to meet the needs of virtually all microscopy applications. In addition, it can satisfy the requirements of many machine vision systems.

The **Brighton I series** provide shadow-free, intense cool illumination for many applications including assembly, inspection, and laboratory analysis.

A knob potentiometer adjusts lamp intensity from 0 to 100%, optional color filter is available upon request

TECHNICAL SPECIFICATION

General Technical Specification

Input Voltage: 220/240V
Input Frequency: 50/60 Hz
Input Current: 1.5A
Output Power: 15-150W
Output Current: 1.5-7.5A
Efficiency: 65%
Operating Temperature: 0-40 Centigrade
Storage Temperature: -25-85 Centigrade
Illumination: > 100000 Lux
Maximum Color Temperature: 3200K
Spectrum Range: 450-700nm
Dimension: 190mm x 180mm x 160mm
Weight: 4.25 Kg
Replacement Lamp Model: 1115

Features.

- Low noise and vibration
- Up to of 150W output
- Lamp life from 200 up to 1000 hrs
- Easy lamp change
- Cost effective solution
- Quick change of fiber optic light guide
- Wide range of light guide
- Optional of color filter available
- CE certified



Model Available	Type of Accessory Available*
<p>PT-1101 (white) PT-1102 (black)</p>	<p>PT-1103 Fiber Optic Single Pipe Guide PT-1104 Fiber Optic Double Pipe Guide PT-1105 Fiber Optic Ring Light I.D. 51mm PT-1106 Fiber Optic Ring Light I.D. 67mm PT-1107 Fiber Optic Ring Light I.D. 64.5mm PT-1108 Fiber Optic Ring Light I.D. 34.5mm PT-1109 Polarizer for #1105 Ring Light only PT-1110 Color Filter Adapter PT-1111 Red Color Filter PT-1112 Green Color Filter PT-1113 Darker Blue Color Filter PT-1114 Bright Blue Color Filter (Make Day Light) PT-1115 Replacement Lamp</p> <p>For flexible fiber optic light guide refer to PT-1204 ~ 1211 *Kindly Specify the type of model require when ordering</p>

<p>Fiber Optic Illuminator</p>  <p>#1101</p>  <p>#1102</p>	<p>(#1101 / 1102) Fiber Optic Illuminator Main Power: 220/120VAC 60HZ Max. Temp: 3200K Bulb: 150W Halogen Bulb (#1115) Bulb Life: 100 ~ 2000 Hrs Out Put Port: 15.8mm/5/8" Inner Diameter Fuse: 2 A Weight: 8 LB.(4.25 Kg) Package Dimensions: 38x26x21cm</p> <p>(#1115) Replacement Halogen Bulb (For Fiber Optic Illuminator)</p>
<p>Fiber Optics Light Guide</p>  <p>#1103</p> <p>Fiber Optics Light Guide</p>	<p>(#1103) Single Pipe With 5/8inch Adapter to connect illuminator, Gooseneck long 550mm, Diameter 6mm Fiber cable, with a Focusing Lens.</p> <p>(#1104) Double Pipe Light</p>



 <p>#1104</p>	<p>With 5/8inch adapter, Gooseneck length 550mm, in light fitting has Diameter of 8mm Fiber cable, out lighting has Diameter of 6mm Fiber Cable, with Focusing Lenses at the end.</p>
<p>Fiber Optic Ring Guide</p>  <p>#1102 + #1105</p>	<p>(#1105) 51mm ID Fiber Optic Ring Guide Shadow free. With a 5/8 inch adapter to connect illuminator, length 90mm, Diameter 8mm Fiber cable, Opening Ring ID 51mm, accepts Polarizer Accessories. When using this Ring Light you can attach to auxiliary lens, if no auxiliary lens, a Ring Adapter is necessary. (Note: Different styles of Microscope Bodies may need different size of Ring Adapter)</p>
 <p>#1101 + #1106</p>	<p>(#1106) 67mm ID Fiber Optic Ring Guide We also provide ID 67mm (2.6") Ring Light, length 1000mm, in lighting Diameter 10mm Fiber cable.</p>
 <p>#1107</p> <p>Fiber Optic Ring Guide</p>	<p>(#1107) 64.5mm ID Fiber Optic Ring Guide Length: 1000mm ID: 64.5mm</p>
	<p>(#1108) Ring Light for Single Zoom Microscope</p>



 <p>#1108 Polarizer</p>	<p>Length: 800mm ID: 34.5mm</p>
 <p>#1109 Color Filter Kit</p>	<p>(#1109) Polarizer for Ring Light For #1105 ID 51mm Ring Light use. Polarizer is used for reducing glare from highly reflective surfaces or high lighting spots from viewing items.</p>
 <p>Replacement Lamp</p>	<p>Filter for Fiber Optic Illuminator: For separations and contrast enhancement application. (#1110) Color Filter Adapter (#1111) Red Color Filter (#1112) Green Color Filter (#1113) Darker Blue Color Filter (#1114) Bright Blue Color Filter (make day light)</p>
 <p>#1115</p>	<p>(#1115) Replacement Lamp Replacement lamp for #1101/1102 Fiber Optic Illuminator</p>

Product Information

Fiber Optic Illuminator *Brighton II Series*



Model : PT-1201

The **Brighton II Series Model PT1201** is a supreme quality **DC regulated** fiber optic illumination cold light source.

The features and high performance enhancement are incorporated into this units are tailored to meet the needs of virtually all microscopy applications.

In addition, it can satisfy the requirements of many machine vision systems. The **Brighton II series** provide shadow-free, intense cool illumination for many applications including assembly, inspection, and laboratory analysis.

The Brighton II series also offers continuous intensity-variation from 0% to 100%. It features flexible light delivery and uniform illumination by an optical fiber bundle. Its color temperature can reach 3200K at the maximum output.

TECHNICAL SPECIFICATION

General Technical Specification




Input Voltage: 220/240V
Input Frequency: 50/60 Hz
Input Current: 1.5A
Output Power: 15-150W
Output Current: 1.5-7.5A
Efficiency: 85%
Operating Temperature: 5-40 Centigrade
Operating Humidity: 0-80% w/o condensation
Illumination: > 50000 Lux
Maximum Color Temperature: 3200K
Spectrum Range: 450-700nm
Dimension: 105mm x 160mm x 260mm
Weight: 2.50 Kg
Replacement Lamp Model: 1203

Features.

- Compact, light weight
- Lamp life from 200 up to 10000 hrs
- Uniform Illumination (Fiber Optic)
- Offers continuous intensity-variation from 0% to 100%
- Quick change of fiber optic light guide
- Wide range of light guide
- CE certified

Model Available	Type of Accessory Available*
PT-1201 *PT-1202 <i>*PT-1202 ARC Lamp Type Fiber Optic Illuminator available upon request</i>	PT-1203 Replacement Lamp PT-1204 1.5m Flexible Fiber Optic Light Guide PT-1205 2.0m Flexible Fiber Optic Light Guide PT-1206 1.5m Flexible Fiber Optic Light Guide PT-1207 2.0m Flexible Fiber Optic Light Guide PT-1208 1.5m Flexible Fiber Optic Light Guide PT-1209 2.0m Flexible Fiber Optic Light Guide PT-1210 0.8m Flexible Fiber Optic Light Guide PT-1211 0.4m Flexible Fiber Optic Light Guide



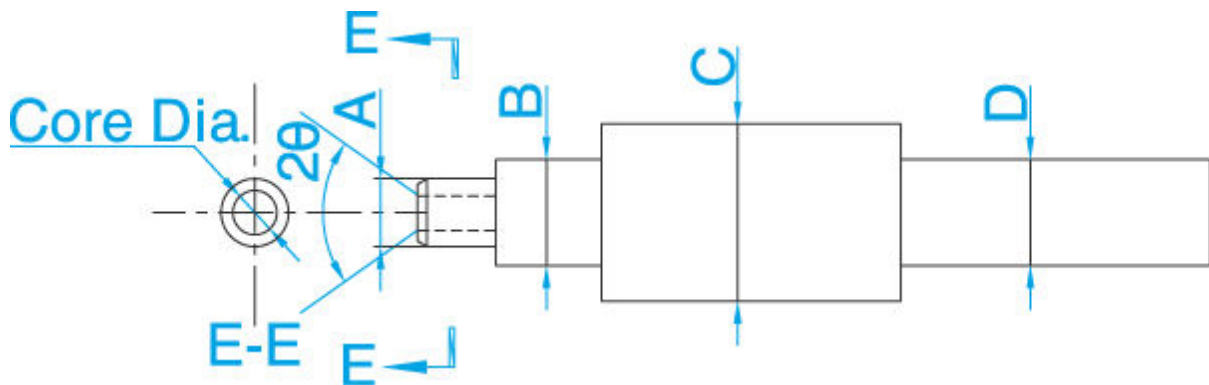
<p>Fiber Optic Illuminator</p>  <p>#1201</p>	<p>(#1201) Fiber Optic Illuminator Main Power: 220/120VAC 60HZ Max. Temp: 3200K Bulb: 150W Halogen Bulb (#1203) Bulb Life: 200 ~10000 Hrs Out Put Port: 12 mm/ 0.47" Inner Diameter Fuse: 2 A Weight: 5.5 LB.(2.5 Kg) Package Dimensions: 10.5 x 16 x 26 cm</p> <p>(#1203) Replacement Halogen Bulb (For Fiber Optic Illuminator)</p>
<p>Replacement Lamp</p>  <p>#1203</p>	<p>(#1203) Replacement Lamp Replacement lamp for #1201 Fiber Optic Illuminator</p>
<p>Flexible Light Guide</p>  <p>#1204-1211</p>	<p>(#1204) 1.5m Flexible Fiber Optic Light Guide (#1205) 2.0m Flexible Fiber Optic Light Guide (#1206) 1.5m Flexible Fiber Optic Light Guide (#1207) 2.0m Flexible Fiber Optic Light Guide (#1208) 1.5m Flexible Fiber Optic Light Guide (#1209) 2.0m Flexible Fiber Optic Light Guide (#1210) 0.8m Flexible Fiber Optic Light Guide (#1211) 0.4m Flexible Fiber Optic Light Guide</p> <p>* Refer to below table A for selection of light guide</p>



PRODUCT INFORMATION

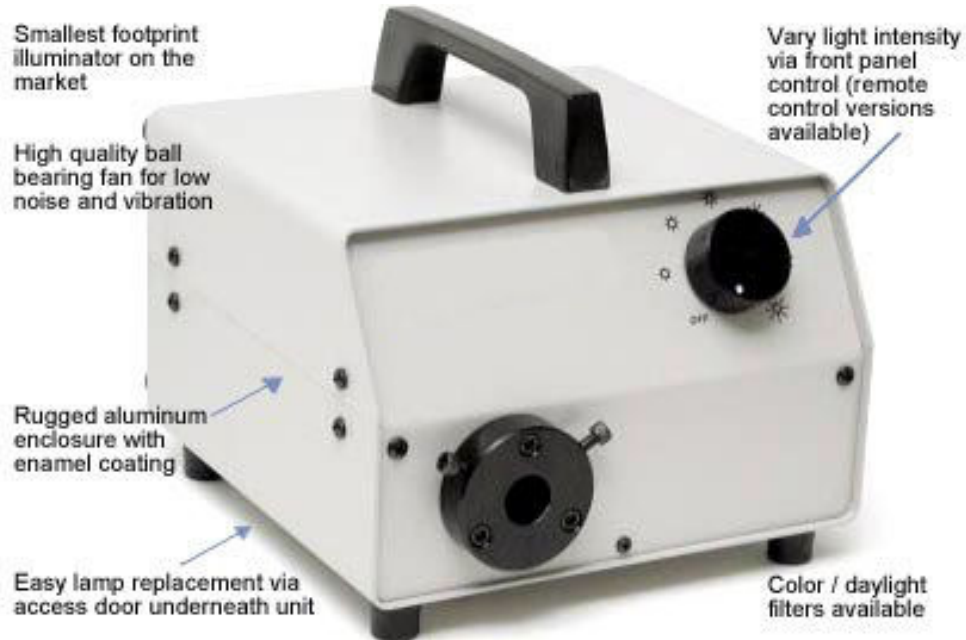
FLEXIBLE FIBER OPTIC LIGHT GUIDE SELECTION REFERENCE TABLE A

Model No.	Core Dia.(1)	Core Dia.(2)	Length (mm)	A(mm)	B(mm)	C(mm)	D(mm)
PT1204	Ø3	Ø3	1500	7.67	12	20	5.8
PT1205	Ø3	Ø3	2000	7.67	12	20	5.8
PT1206	Ø4	Ø4	1500	7.67	12	20	5.8
PT1207	Ø4	Ø4	2000	7.67	12	20	5.8
PT1208	Ø5	Ø5	1500	7.67	12	20	5.8
PT1209	Ø5	Ø5	2000	7.67	12	20	5.8
PT1210	Ø4	Ø1	800	7.67	12	20	3
PT1211	Ø4	Ø0.125	400	7.67	12	20	2





Brighton I Series Bundle Pack




Brighton I series Bundle Pack A

Cold Light Source PT1101 + 2m Long Flexible Light Guide PT1205

Brighton I series Bundle Pack B

Cold Light Source PT1101 + Double Pipe Goose Neck PT1104

For More Information

For more information on our products and services, kindly send an  Email to sales@pinnacletech.biz

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