

### FLUORE200 Fluorescent Research Biological



### Microscopy System

FLUORE200 Series Epi-fluorescent microscope is a Professional Fluorescent Research Biological Testing Instrument for Scientific and Research observation & analysis. It is widely used in Biology, Immunology, Genetics, Material science, etc.

#### Main Features:

- Superior qualified optical system offers high stable image
- shape-designed base provides the high stability; Ergonomic Configuration Design achieves simple and convenient operation
- Perfect Fluorescent effect is provided within the range of 2 common wave bands, B&G. through Transmission illumination. U&V. wave band is available for option.

## Standard Specification -----FLUORE200

Standard Specification		FLUORE200	FLUORE203	FLUORE210	FLUORE213
Viewing Head	Compensation Binocular Head Inclined at 30° Interpupillary Distance: 55mm - 75mm	0	0	●	0
	Compensation Trinocular Head, Inclined 30° Interpupillary Distance: 55mm - 75mm	0	0	0	●
	Sliding Binocular Head, Inclined at 45° Interpupillary Distance: 55mm - 75mm	●	0	0	0
	Sliding Binocular Head, Inclined at 45° Interpupillary Distance: 55mm - 75mm	0	●	0	0
Eyepiece	WF10X/18mm	●	●	0	0
	WF10X/22mm	0	0	●	●
Nosepiece	Quadruple nosepiece	●	●	●	●
Objective	Fluorescent Objective: 4X, 10X, 40X(S), 100X(S)	●	●	0	0
	Infinity fluorescent objective: 4X, 10X, 40X(S), 100X(S)	0	0	●	●
Stage	Double layers mechanical stage; Stage size: 180mm X 150mm Moving range: 75mm X 50mm	●	●	●	●
Condenser	Abbe N. A. 1.25 condenser with iris diaphragm & filter	●	●	●	●
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism Fine focusing scale: 0.002mm	●	●	●	●
Florescence Box	B & G Wave Band	●	●	●	●
	U & V Wave Band	0	0	0	0
Illumination	Epi-illumination, 220v (110v)/100w Mercury lamp. Pointer or digital display power supply box. Transmission illumination: 12v/30w halogen bulb	●	●	●	●
Optional	DMC 300 digital eyepiece	0	0	0	0
	DMC 130 Digital eyepiece	0	0	0	0
Accessories	Photo attachment	0	0	0	0


**NILPA CONSULTANCY**

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# FLUORE 300 Fluorescent Research Biological



## FLUORE300 Series Fluorescence Microscope Outfits

Items	Specification	FLUORE300B	FLUORE300T
Eyepiece	WF 10X-20mm	●	●
	WF16X-13mm	○	○
	WF 10X-20 mm (Reticule 0.1mm)	○	○
Infinity Plan Objective	4X 10X , 20X (S) , 40X (S) , 100X (Oil) (S)	●	●
Seidentopf Binocular Head	Inclined 30 °,Rotatable 360° Interpupillary Distance 50-75mm	●	○
Trinocular Head	Inclined 30 °,Rotatable 360° Interpupillary Distance 50-75mm, Light Distribution: 0:100	○	●
Nosepiece	Quintuple	●	●
Mechanical Stage	Size: 190mmX140mm Travel: 55mmX78mm Coaxial Coarse and Fine Focusing Knobs	●	●
Condenser	Abbe N.A. 1.25 (Iris Diaphragm)	●	●
Fluorescence Unit	Fluorescence Illuminator (B,G)	●	●
	Fluorescence Illuminator (UV, V, B, G)	○	○
	100W Mercury Bulb House	●	●
	100W Mercury Bulb Power Source	●	●
	Centering Objective 110V/220V/100W Mercury Bulb Spare: 1 pc	●	●
Koehler Illumination	6V/20W Halogen Lamp	●	●
2 A Fuse	Spare:2 pc	●	●
Filter	Blue	●	●
C-mount	0.3X, 0.5X, 1X	○	○
Adaptor for Digital Camera	DMC 130, DMC 300 digital camera	○	○

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# FLUORE100 Series Six Wave fluorescent microscope



The basic parameters and specifications of the microscope

## 1. Wave Range

G	B	BV	V	U	Y
EX510-560	EX450-490	EX400-440	EX380-420	EX330-380	EX540-580
DM575	DM505	DM455	DM430	DM400	DM595
BA590	BA520	BA470	BA450	BA420	BA600-660

2. Eyepiece: WF10X/22

### 3.Objective

Item	Magnification	Numerical Aperture NA	System	Working Distance mm
Plan High NA. Fluorescent Objective	4X	0.15	Dry	21.6
	10X	0.35		2.9
	20X	0.60		1.5
	40X	0.75		0.6

### 4. The total specifications

Standard Specification		FLUORE100B	FLUORE100T
Viewing Head	Binocular, Interpupillary Distance:55mm -75mm	●	○
	Trinocular, Interpupillary Distance:55mm -75mm	○	●
Eyepiece	WF10X/22mm	●	●
	WF15X	○	○
Nosepiece	Quadruple nosepiece	●	●
	Quintuple nosepiece	○	○
Objective	Infinity plan objectives:4X,10X,20X,40X(S),	●	●
	Infinity plan objectives:50X(S),60X(S) 100X(S,Dry)	○	○
Stage	Double layers mechanical stage; Stage size:180mmX 160mm Moving range :76mmX 50mm	●	●
Condenser	Swing type N.A.1.25 Abbe condenser with iris diaphragm &filter	●	●
Focusing	Coaxial coarse& fine focusing adjustment with rack and pinion mechanism Fine focusing scale : 0.002mm	●	●
Illumination	Reflect light Hg bulb20V/100W,	●	●
	Transmission light AC85-230V , Adjustable Brightness	●	●
Collector	Kohler illumination	●	●

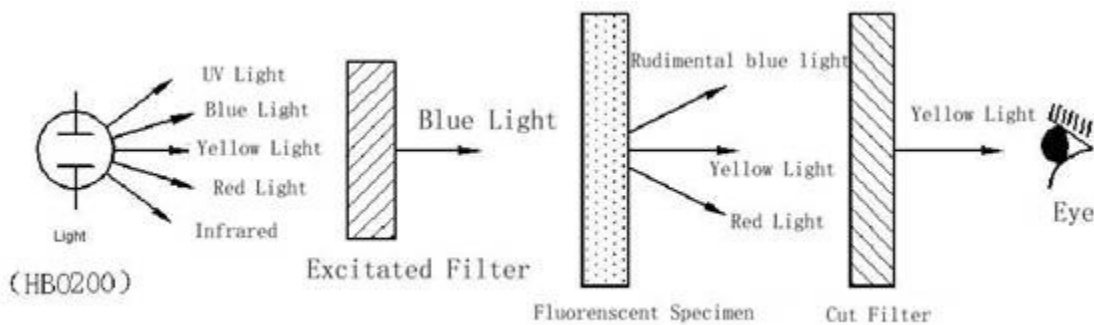
### 5 Optical System: Infinity

6.Microscope tube lens Focal length  $f = 200\text{mm}$

7.Coarse and fine focusing adjustment range 25mm

8.The entire fine focusing adjustment division value0.002mm

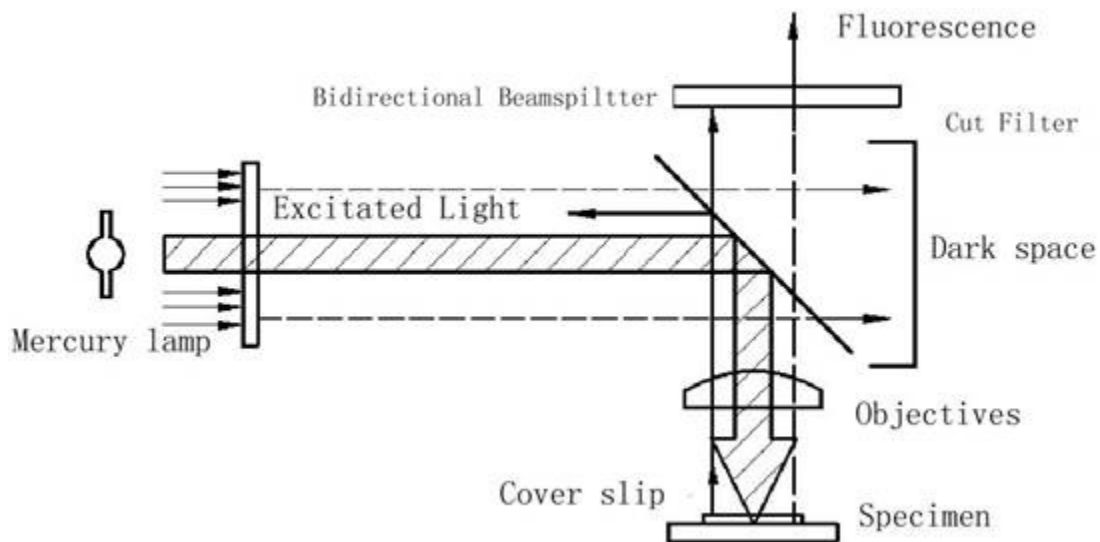
9 Mechanical stageMove 76 mm horizontal, 50 mm vertical, graduation 0.1 mm



10. The optical characteristics combination of Eyepiece and Objectives listed in the following table

Optical characteristics		4X	10X	20X	40X	100X	Remark
Numerical Aperture		0.15	0.35	0.60	0.75	0.90	
Mechanical tube length							
Thickness of cover		0.17	0.17	0.17	0.17	0.17	mm
Color circle mark		Red	Yellow	Green	Blue	White	
System		Dry	Dry	Dry	Dry	Dry	
Working distance		21.6	2.9	1.5	0.6	0.62	mm
Viewing field diameter		$\mu$ 6	$\mu$ 2.4	$\mu$ 1.2	$\mu$ 0.60	$\mu$ 0.24	mm
Resolution		2.24	0.96	0.56	0.45	0.37	micron
10X Eyepiece	viewing field diameter	$\mu$ 22	$\mu$ 22	$\mu$ 22	$\mu$ 22	$\mu$ 22	mm
	Total magnification	40	100	200	400	1000	times
15X Eyepiece	viewing field diameter	$\mu$ 17	$\mu$ 17	$\mu$ 17	$\mu$ 17	$\mu$ 17	mm
	Total magnification	60	150	300	600	1500	times

\* Objective 50X, 60X, 100X and Eyepiece 15X are optional accessories.



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