

## Olympus Fluoview 1000 Spectral (FLV1000S)

NIH Grant Number: 1 S10 OD010610-01A1

**Lasers Lines (Excitation Sources)**

Lasers (nm)	Type	Power	Maker
405	Diode	50mW	Not listed
440	Diode	25mw	Not Listed
488	Gas	10mW	Melles Griot
515	Gas	10mW	Melles Griot
559	Pumped Diode	15mW	Not listed
635	Diode	20mW	Not Listed

**Objectives**

Magnification	N.A.	Media	Correction	Working Distance
10x	0.4	Air	UPLSAPO	3.1mm
20x	0.75	Air	UPLSAPO	0.65mm
40x	1.30	Oil	UPLFLN	0.2mm
60x	1.40	Oil	PLAPONSC	
30x	1.05	Silicon Oil	UPLSAPO	0.8mm
60x	1.30	Silicon Oil	UPASAPO	0.30mm
Available on request				
LWD20	0.45	Air	LUCPLFLN20X	WD 6.4-7.6mm
LWD40x	0.6	Air	LUCPLFLN40X	WD 2.7- 4.0mm

**4 Confocal Detectors (photomultiplier tubes) + transmitted light detector**

2 PMT with Spectral Detectors  
 100nm max bandwidth  
 2nm max resolution

2 PMT with filters  
 Transmitted light Detector

**Cubes for Visualization**

DAPI Like - Narrow UV EX360-370, DM400, EM420-60 (U-MNIBA3(F))  
 CFP like - WIDE BV CUBE, EX400-440,DM455, EM475 (U-MWBV2(F))  
 GFP/FITC like - NARROW IF BLUE CUBE,EX470-490 DM505,EM510-50 BAND (U-MNIBA3(F))  
 RFP/TRITC like - WIDE IF GREEN CUBE,EX520- 550,DM565, EM580IF (U-MWIG3(F))  
 DIC – Differential Interference Contrast using transmitted light

**DIC Imaging**

10x, 20x, 40x, 60x prisms  
 U-DICTS slider

**Prior Scanning Stage****Enclosure**

WeatherStation Temp, CO<sub>2</sub> and Prior Stage Compatible with Cooling Module