

# Zeiss Inverted Microscope

Mono1 Printer



**Tool Type:** "Inverted Microscope"

**Location:** "Elings Hall 2411"

Supervisor	Tool Lead
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**Description:** "Inverted Microscope"

**Manufacturer:** "Zeiss"

## About

Inverted microscope Axio Observer 7 ACR for transmitted-light brightfield LED, phase contrast, differential interference contrast, fluorescence with Colibri 7; equipped with ACR function, Scanning Stage STEP and Docking station

## Detailed Specifications

Objective	Magnification	Imm	NA	Ph	FWD	Resolution (µm/px)	Field of View (µm)
10X EC Plan-Neofluar Ph1-Air	10	AIR	0.3	1	5.2	0.586	1,125 x 713
20X Plan-Apochromat M27	20X	AIR	0.8	1	0.55	0.293	563 x 356
20X LD-Neofluar Korr Ph2 M27 Air	20X	AIR	0.4	2	7.4 – 8.4	0.293	562 x 356
40X LD Plan-Neofluar Korr Ph2 M27-Air	40X	AIR	0.6	2	3.3 – 2.5	0.1465	281 x 178
40X LD LCI Plan-Apochromat Imm Korr DIC M27 Water	40X	WATER	1.2	2	0.41	0.1465	281 x 178
63X Plan-Apochromat Oil DIC M27 Oil	63X	OIL	1.4	2	0.19	0.093	178 x 113

FWD: Free Working Distance  
NA: Numerical Aperature  
Imm: Immersion media  
Ph: Phase contrast

Position	Filter Set	Exitation (nm)	Emmision (nm)	Beamsplitter
1	38 HE GFP	BP 470/40	BP 525/50	FT 495
2	43 HE DsRED	BP 550/25	BP 605/70	FT 570
3	50 CY5	BP 640/30	BP 690/50	FT 660
4	90 HE D/G/C3	BP 385/30	QBP 425/30	QBS 405
		BP 469/38	QBP 514/30	QBS 493
		BP 555/30	QBP 592/25	QBS 575
		BP 631/33	QBP 709/100	QBS 653
5	96 HE BFP	BP 390	BP 450	FT 420
6	POL TL			

## Safety Concerns

Read the manufactures manual before first use. If the Mono 1 printer acts in a way that is not described by the manual, turn off the printer and contact monoPRINTER.

- Never place your finger near the machine until all parts have stopped moving. Moving parts can cause serious injury
- Never clean or service the printer while it is on
- The printer uses UV light for curing. Never look directly at UV light nor expose skin. Serious injury may result from exposure
- Always ensure that equipment is correctly mounted before use. Improperly mounted print beds, build platfomrs can be dangerous. If any equipment appears damaged, turn off the printer, unplug all connections and contact monoPRINTER.

## Operating Procedures

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## Reference Documentation

mono3manual.pdf

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## Training Documentation

From:

<https://bpm-wiki.cnsi.ucsb.edu/> - NSF BioPACIFIC MIP Wiki

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