

Technical Specifications – sCMOS Monochrome

- **Objectives:**

- 10X/0.3 Plan-Neofluar. Brightfield (H) and Nomarski (DIC I)
- 20x/0.5 Plan-Neofluar. Brightfield (H) and Nomarski (DIC II)
- 25X/0.8 Plan-Neofluar. Brightfield (H) and Nomarski (DIC II)
- 40X/1.3 oil Plan-Neofluar. Brightfield (H) and Nomarski (DIC III)
- 63X/1.4 oil Plan-Apochromat. Brightfield (H) and Nomarski (DIC III)

- **Other Objectives to be requested:**

- 2,5x/0.075 Plan-Neofluar. Brightfield (H)
- 5X/0.15 Plan-Neofluar. Brightfield (H)
- 40X/0.6 LCD Plan-Neofluar. Brightfield (H)
- 40X/1.2 Water C-Apochromat. Brightfield (H) and Nomarski (DIC III)
- 63X/1.2 Water C-Apochromat. Brightfield (H) and Nomarski (DIC III)
- 100X/1.3 oil iris Plan-Neofluar. Brightfield (H) and Nomarski (DIC III)

- **Fluorescence Excitation – Fast Filter Wheel [LAMBDA 10-2 \(SUTTER\)](#)**

DAPI 390-420	CFP 423-448	CFP 426-446	GFP 460-480	GFP 470-490	YFP 490-510
RHODAMINE 553-558	DAPI/TEXAS 380-410/560-590	DAPI/GFP/TRITC/Cy5 D380-404/G461-487/T543-566/C626-644			Cy5 590-650

- **Reflector Turret:**

- CFP (**Dichroic:** 455FT **Em:** 460-500) (Chroma)
- DAPI/GFP/ROD/Cy5 (**Dichroic** D381-404/G461-488/R543-566/C626-644 and **Em:** D414-450/G499-530/R580-611/C659,5-800)
- GFP/DSRED (**Dichroic** and **Em:** 500LP)
- Dichroic 495LP
- DAPI/TEXAS (**Dichroic:** D440-485/T600-670 **Em:** D440-480/T600-655)

- **Fluorescence Emission – Fast Filter Wheel [LAMBDA 10-2 \(SUTTER\)](#)**

OPEN	CFP 465-499	YFP 520-550	YFP 510-560	DAPI 414-450	GFP 505-530	RHODAMINE 560-575	Cy5 662-732	TEXAS 570-640	TEXAS 600-660
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- **Optics:** Brightfield, Nomarski and Fluorescence ([CoolLED pE-4000](#))

- **Camera:** [ORCA-Flash4.0 LT sCMOS \(C11440-42U\)](#) (Hamamatsu)

- **Motorized Stage**

- **In vivo System:** Temp, CO₂ and perfusion system

- **Software:** Metamorph 7.10.4.407