

# Specifications Zeiss Cell Discoverer 7

## STAND

- Zeiss Cell Discoverer high content microscope with LSM900 confocal head

## OBJECTIVES

- PlanApochromat 5x/0.12 (WD=5.1mm)
- PlanApochromat 20x/0.35-0.8 (WD=2.2mm) Autocorrection\*
- PlanApochromat 50x/1.2 water (WD=0.84mm) Auto correction\* and auto water immersion

These objectives are used in combination with a 0.5X, 1x and 2x optovar lens

Possible magnifications: 2.5x, 5x, 10x, 20x, 25x, 40x, 50x, 100x.

\* 20x and 50x objectives are automatically corrected for coverslip/plate bottom material and thickness

## EXCITATION

- Confocal: 405, 488, 561, 640 nm diode laser lines
- Widefield excitation: Colibri 1: 385,470,567,625 nm  
Colibri 2: 420,520,590

## DETECTION

- Confocal:
  - 1 Airyscan2 detector, fast, high s/n ration and (Super) high resolution
  - 2 PMT detectors
- Wide field:
  - Axiocam 506 b/w camera 2752 × 2208 pixels

## STAGE / INCUBATION

- Fully automated xyz stage
- Almost all multiwell plates will fit
- Insert for 3,5/ 6 cm petri dishes
- Insert for 2x incubation boxes
- Insert for 2 microscopy slides
- Temperature controlled
- CO2 and O2 levels controlled
- Software and hardware (definite) autofocus
- Tiling, z-stack, positions, time lapse in different combinations possible

## SOFTWARE

- ZEN blue acquisition, image analysis
- Cell Profiler analysis
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This system has coupling with a ThermoFisher Cytomat incubator for 42 plates via a PAA robot.

