



Axiolmager Z1 Upright Microscope

Axiolmager Z1 Upright Microscope, Carl Zeiss Canada, North York, ON

A cornerstone in Biotron’s Imaging Module is the Z1 Imager by Zeiss. This compound microscope offers users an ideal upright imaging solution with superb optics. The Z1 provides 8 channels of fluorescence (Please refer to Table), bright field, dark field, phase contrast and DIC imaging.

This fully digital Z1 allows users to design and implement complex imaging projects with repeatability and control. The software and motorized features of this instrument allow the user to create z-stacks with extended depth of focus or for 3D reconstruction, whole slide scans using Zen 2012 “stitch and tile”, save multiple x-y positions, and create time lapse experiments.

Axiolmager Z1 Technical Specifications

<p>Filters available</p> <ul style="list-style-type: none"> 00-Texas Red 10-FITC/Alexa 488 15-Alexa 546* 20-Rhodamine 26-Alexa 660 31-Alexa 568/Rhod 38-GFP 49-DAPI/Hoechst Reflector cube 	<p>Excitation Wavelength:</p> <ul style="list-style-type: none"> Excitation BP 530-585 Excitation BP 450-490 Excitation BP 546/12 Excitation BP 546/12 Excitation BP 575-625 Excitation BP 565/30 Excitation BP 390/22 Excitation BP 470/40 Reflected light only 	<p>Emission Wavelength:</p> <ul style="list-style-type: none"> Emission LP 615 Emission BP 515-565 Emission LP 590 Emission BP 575-640 Emission BP 660-710 Emission BP 620/60 Emission BP 460/50 Emission BP 525/50 All
<p>Objectives available*</p> <ul style="list-style-type: none"> 2.5x/0.075 NA 5x/0.16 NA 10x/0.3 NA 20x/0.5 NA 20x/0.5 NA (materials)* 40x/0.75 NA* 40x/1.3 NA Oil 63x/1.4 NA Oil 100x/1.4 NA Oil* 	<p>Features and Quality:</p> <ul style="list-style-type: none"> EC Plan Neofluar PH1 EC-Plan Neofluar Plan NeoFluar PH2,DIC EC Plan Neofluar EC Epiplan-Neofluar (Materials lens-no coverslip) PH2 DIC EC Plan Neofluar DIC Plan Apochromat DIC Plan Apochromat DIC Plan Apochromat 	
<p>Cameras (2)</p> <p>Colour/Brightfield:</p> <p>Fluorescent:</p>	<p>Colour MRC 5:</p> <p>12 acquisition modes, 5 megapixel, 1:1300 dynamic range, high sensitivity 2/3” CCD sensor, up to 16 frames/sec, 36 bit RGB, perfect colour accuracy</p> <p>Monochrome MRm (Fluorescence):</p> <p>1.4 megapixel, 1:2200 dynamic range, high sensitivity 2/3” CCD sensor, up to 48 frames/sec, 12 bit, expanded spectral range to near-IR, barrier filter-free for extremely high fluorescence sensitivity on dim samples.</p>	

* Available by request