

Aivia (Image Analysis Software)
Specifications

Item	
Package	Aivia Apex
Features	<p>Cell Analysis Recipes: Observe complex cellular interactions in 2D and 3D fluorescence data sets:</p> <ul style="list-style-type: none"> • Analyze whole tissue sections • Visualize whole embryos • Detect cell membranes, cytoplasm, nuclei, vesicles, and more
	<p>Neuron Analysis Recipes Automatically detect and trace neurons in 3D fluorescence and electron microscopy (EM) data sets:</p> <ul style="list-style-type: none"> • Segment soma, dendrites, and spines • Count the number of neurons, dendrites, and spines • Measure dendritic branch length, angle, and points
	<p>Image Analysis Recipes Deploy a wide range of 2D to 5D image analysis recipes for the most popular analysis applications:</p> <ul style="list-style-type: none"> • Nuclei count and tracking • Cell count and tracking • Particle count and tracking • Cell proliferation assay • Neurite outgrowth • Cell tracking (phase contrast) • Wound healing assay (phase contrast) • Stem cell colony detection (phase contrast)
	<p>AI-powered Classifiers Machine learning-powered tools that leverage your expertise to enhance, segment, and analyze your data sets</p> <ul style="list-style-type: none"> • Pixel Classifier: radically simplifies image enhancement and segmentation of 2D to 5D data sets • Object Classifier: easily classify objects and identify new phenotypes
	<p>Deep Learning Models Apply any of Aivia's 20+ pre-trained deep learning (DL) models or your own custom models for image enhancement and segmentation; as well as apply DL models from third party and open source repositories</p>
	<p>Batch Processing Apply recipes, deep learning models, and Pixel Classifiers in batch mode</p>
	<p>File Reading and Rendering</p>

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	Read 40+ microscopy file types and render multi-channel 2D to 5D images of up to 3TB (raw size per volume), including millions of detected objects, cells, neurons, and tracks
Installed on	Image analysis PC (Aivia, ImageJ, CODEX MAV, ZEN Blue 3.1 w/ airyscan) (Rm 6141AB)
Training	Recordings available (please find the link on our booking system, under the Specifications of “Image analysis PC (Aivia, ImageJ, CODEX MAV, ZEN Blue 3.1 w/ airyscan) (Rm 6141AB)”
Wiki page	https://aivia-software.atlassian.net/wiki/spaces/AW/overview