

Product Information Version 1.0

ZEISS ZEN 2 core

Smart. Precise. Open. Imaging Software Simplified.



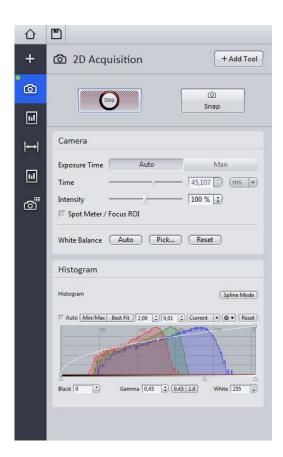
ZEN 2 core: Smart. Precise. Open.

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- > The Applications
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ZEISS ZEN 2 core combines maximum flexibility with minimum complexity in a single piece of software. Put this powerful software, with its ease of use and straightforward design, together with established ZEISS hardware and you will experience best-in-class microscopy.

For everyday use when you're running routine tasks with repeatable results, ZEN 2 core keeps it simple and gives you total efficiency. But when you need to tease out the highest technical performance from your microscope, ZEN 2 core delivers maximum flexibility with access to every functionality and parameter you might wish to optimize.

ZEN 2 core lets you create task-specific "workbenches" that show only the required microscope controls on the screen. Combine these workbenches to create dedicated "jobs" to guide your operators through a defined flow of consecutive tasks. Generate your reports – it's easy, using predefined or self created MS Word® templates. A dedicated user management allows you to set permissions so that each operator will have access to exactly the workbenches and jobs which are needed.



ZEN 2 core: Simpler. More Intelligent. More Integrated.

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Smart: Easy-to-Configure User Interface for a wide variety of Tasks

ZEN 2 core gives you the benefit of an adaptive user interface suited specifically to industrial and research customers. The easy GUI configuration fits tasks of all kinds and of any complexity. Your tasks will be adapted perfectly by ZEN 2 core and supported by the new GUI.

ZEN 2 core also offers you configurable user management, adjusting the software to different users and user levels. Whatever their level of knowledge, operators will learn the software in a short time.

Precise: Fast, Repeatable, Reproducible Results

Given its straightforward workflows, you can count on fast, reproducible analysis and measurement results with ZEN 2 core. ZEN 2 core is intuitive to use and adapts quickly to different tasks in an intelligent and flexible manner.

Its ability for creating job templates gives you peace of mind, knowing you will get the same reliable results every time.

Open: Works with other Software Platforms and Hardware Accessories

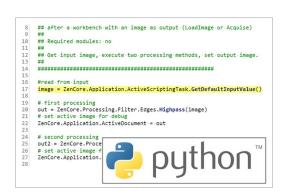
ZEN 2 core offers you an interface to other software platforms and hardware accessories. It controls Linkam heating stages and features a connection to ImageJ.

In addition, your ZEN 2 core comes with a scripting interface for programming (Open Application Development) that allows you to adjust the software to your specific needs.

It's easy to create user configured report templates in MS Word® – just use the ZEISS Word Add-In. In ZEN 2 core, the reporting functionality creates reports in various file formats.







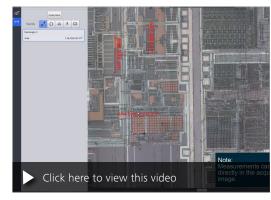
ZEN 2 core at Work

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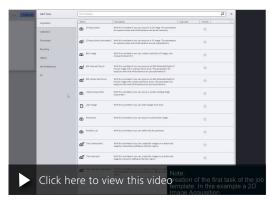
- Benefit from an adaptive user interface for industrial and research material applications which allows simple GUI configuration for all types of tasks.
- Achieve fast and reproducible measurement results.
- ZEISS ZEN 2 core learns tasks quickly and requires little training efforts.
- Interface to other software systems and programming interfaces.
- Convenient results reporting via MS Word®.



How to acquire an image and create a Custom Workbench



How to acquire tiled images



How to create a Job Template



How to run a Job Template

ZEN 2 core: Your Flexible Choice of Components

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Generic Functions	ZEN 2 starter (free of charge)	ZEN 2 core	Description
Microscope Control		•	Control of microscope and devices from software
Camera Control	•	•	Control of the camera out of the software
Workbenches	Generic workbenches	Workbenches depending on functional modules	Depending on the functionality and modules, the respective workbenches are available
Functional Modules	ZEN 2 starter	ZEN 2 core	Description
Manual Extended Focus	•	•	Manually acquire multiple images at different focus positions and combine them to an image with a greater depth of field
Panorama	•	•	Manually acquire high resolution overview images from individual 2D images
Basic Measurement	•	•	Basic functions for interactive measurement
Data Exchange with Image Access and IMS	•	•	Basic interface for storing data in databases
Reporting	•	•	Creation of reports containing all kind of informations
Report template creator (MS Word® Add-In)	•	•	Software to create report templates using MS Word®
Measurement	0	•	Extended functionality of interactive measurement
Image Analysis	0	0	Creation of automatic measurement programs
Motorized Extended Focus		0	Automatically acquire multiple images at different focus position and combine them to an image with a greater depth of field
Tiles & Positions		0	Record exact, highly resolved images of large samples by automatically scanning pre-defined areas
Autofocus		0	Determine the focus position of your sample
Linkam (Hardware Control)		0	Interface to control Linkam heating- and cooling stages
ImageJ Extension		•	Send and retrieve images to and from ImageJ
Macro Environment		0	Use Python programming language to generate customer specific macros

Technical Specifications

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System Requirements ZEN 2 starter ZEN 2 core Intel® Core i5-4670 3.0 GHz Intel® Xeon E5-2643 3.0 GHz Intel® Q87 chipset Intel® C602 chipset 4 GB DDR3-RAM 16 GB DDR3-RAM Graphics adapter with 1920 x 1200 resolution, Graphics adapter AMD FirePro with 2560 x 1600resolution, 32-bit true color, 128 MB RAM, DirectX 8.0 or higher 32 Bit true color, DirectX 8.0 or higher Monitor 20" TFT, vertical resolution 1200 pixels at least Monitor 24" TFT 1600 x 1200 Hard disk 250 GB Serial ATA 3.0 Gbit/s Hard disk 1 x 128 GB SSD and 2 x 2 TB Serial ATA 3.0 Gbit/s (configured as 2 TB RAID 1) 1 x FireWire IEEE 1394a for connecting a FireWire Axiocam camera 2 available PCI Express x8 Gen2 slots for camera interface cards 1x FireWire IEEE 1394a interface 1x FireWire IEEE 1394a interface 2x serial interfaces (COM1 and COM2) 2x USB 2.0, 2x USB 3.0 interfaces 4x USB 2.0, 2x USB 3.0 interfaces Microsoft® Windows® 7 64-bit Ultimate Microsoft® Windows® 7 64-bit Ultimate (Multilanguage), no special customer adapted versions (Multilanguage), no special customer adapted versions

Count on Service in the True Sense of the Word

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Because the ZEISS microscope system is one of your most important tools, we make sure it is always ready to perform. What's more, we'll see to it that you are employing all the options that get the best from your microscope. You can choose from a range of service products, each delivered by highly qualified ZEISS specialists who will support you long beyond the purchase of your system. Our aim is to enable you to experience those special moments that inspire your work.

Repair. Maintain. Optimize.

Attain maximum uptime with your microscope. A ZEISS Protect Service Agreement lets you budget for operating costs, all the while reducing costly downtime and achieving the best results through the improved performance of your system. Choose from service agreements designed to give you a range of options and control levels. We'll work with you to select the Protect Service Agreement that addresses your system needs and usage requirements, in line with your organization's standard practices.

Our service on-demand also brings you distinct advantages. ZEISS service staff will analyze issues at hand and resolve them – whether using remote maintenance software or working on site.

Enhance Your Microscope System.

Your ZEISS microscope system is designed for a variety of updates; open interfaces allow you to maintain a high technological level at all times. As a result you'll work more efficiently now, while extending the productive lifetime of your microscope as new update possibilities come on stream.







Profit from the optimized performance of your microscope system with services from ZEISS – now and for years to come.

>> www.zeiss.com/microservice













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