

Datasheet zenCELL owl

Live cell imaging with the zenCELL owl incubator microscope enables automatization and parallelization of routine and specific cell culture applications. zenCELL owl uses 24 independent cameras to acquire brightfield scans and perform image analysis of up to 24 wells of your cell culture in parallel automatically.

The specialized software provides data visualization and analysis in real time and around the clock – 24/7. Culture quality and data can be comfortably checked from your PC – anywhere and anytime without entering the lab. The space-saving and easy-to-handle device is compatible with a range of standard cell culture vessels like multi-well plates, flasks or individual formats.



System Requirements	Windows® 8, 10 (32/64 Bit, 2,5 GHz 4 Kerne, 8 GB RAM)
Interface (power supply, data exchange)	USB 3.0
Power supply	5 V
Protection	IP62
Operating Environment	20 – 45°C 20 - 95% Humidity
Disinfectable	Isopropanol, Ethanol

Dimensions (W x H x D)	10,5cm x 18cm x 18cm
Weight	1050 g

Light Source	LED
Camera	5 MP CMOS
Optical Filters	No Filters
Contrasting methods	Digital Phase contrast
Field of view per microscope	1,2mm x 0,9mm
Display resolution per microscope	2592 x 1944
Image Resolution	5 MP
Magnification Camera	10x (+ digital Zoom)
Image capture	30s for 24 Wells
Adjustable recording interval	10 min - 1 Tag

Export Formats	Picture: PNG, JPG, BMP Video: AVI Dataset: CSV
Application	e.g. Cell Culture Monitoring, Scratch Assay, Confluence check, drug treatment