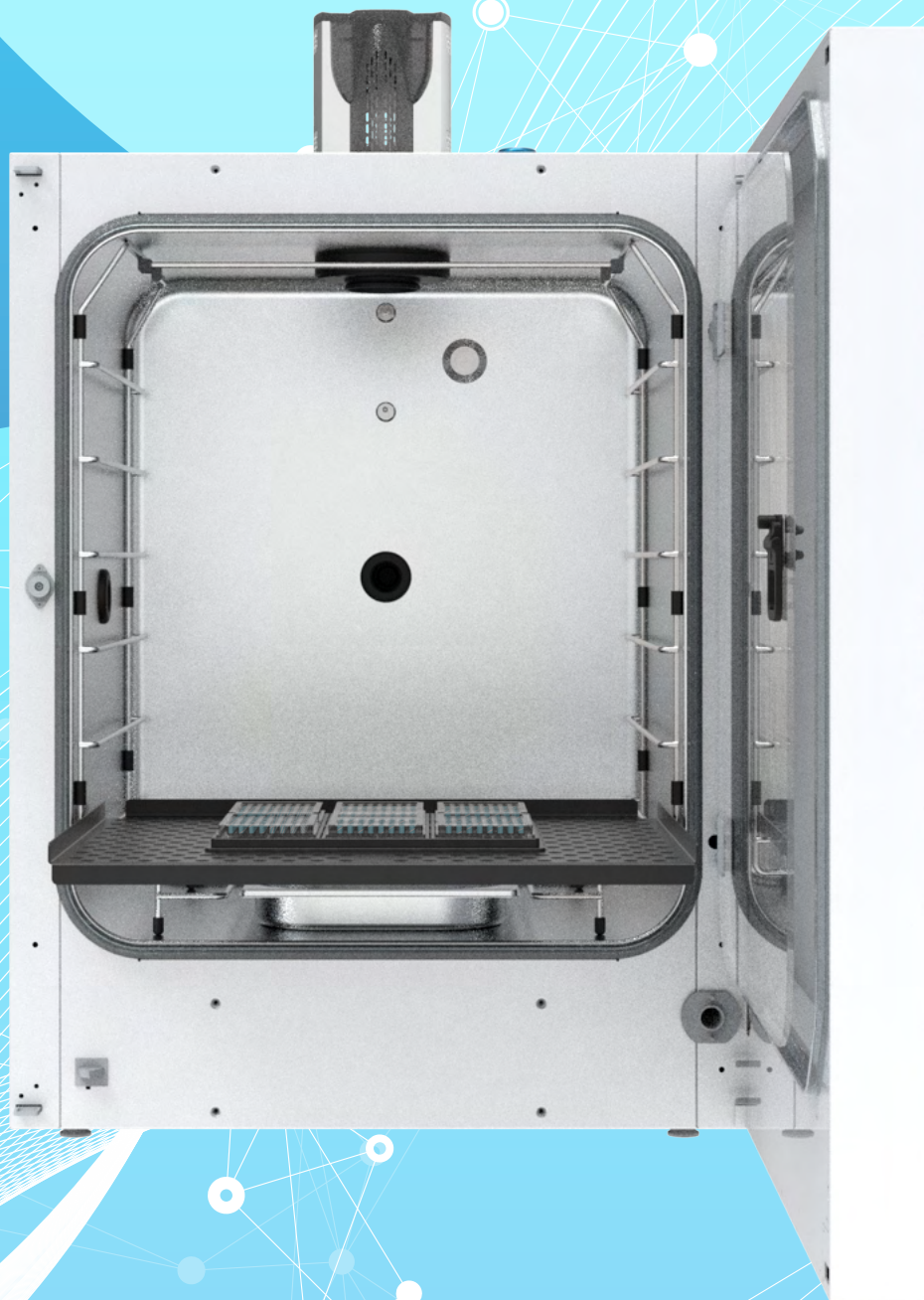


The Obscura Alligator is a light-tight, 180L enclosure designed for high throughput sensitive optical recordings. It combines precise temperature, humidity, and CO<sub>2</sub> control with a high-sensitivity EMCCD camera, optics optimised for very low light levels, and an anti-mist system – all integrated into a custom tissue culture incubator to protect your experiments from external interference.



“This fantastic new system offers the capacity for high-throughput collection over time scales that vary from seconds to weeks, without sacrificing the quality of the data collected. The flexible and sensitive environmental control gives us the ability to do experiments which would simply not be possible otherwise” Dr John S O’Neill, MRC Laboratory of Molecular Biology, University of Cambridge.

## Application Usage:

Circadian rhythm measurements (seconds to weeks)  
Calcium recordings (Aequorin)  
Plant sciences  
Neuroscience and Neurophysiology  
Bioluminescence imaging under physiological conditions

## Features and Benefits:

Light-tight design – no dark room required  
High throughput: image up to six 96-well plates simultaneously  
Precise environmental control (temperature, CO<sub>2</sub>, humidity)  
High-aperture f/0.95 lens with demisting module  
Software-controlled environmental parameters  
Andor iXon Ultra 888 – unrivalled sensitivity for ultra-low-light imaging

## Integrated Features:

Secondary shroud for enhanced light isolation  
Anti-reflective stainless steel racks  
Multi-well plate alignment system  
External focus adjustment  
Integrated illumination ring – Optional  
Manual filter changers – Optional

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