



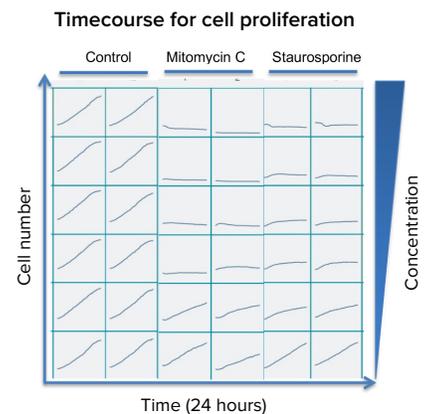
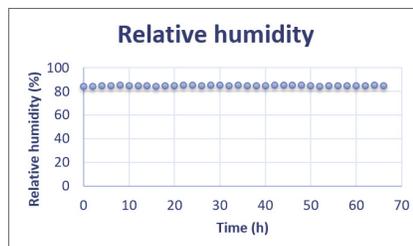
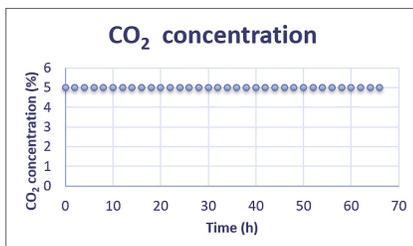
## ImageXpress Pico system with environmental control

Perform extended time-lapse acquisitions on living samples while maintaining optimal conditions

### Enable live cell imaging and real-time environmental control

Environmental control mimics the cell environment and enables you to run multi-day studies, time-lapse, and live cell assays. With CellReporterXpress® software, the ImageXpress® Pico Automated Cell Imaging System provides visibility for environmental control during acquisition to ensure that the system is running at peak performance during your assay.

#### Reproduce and maintain environmental conditions

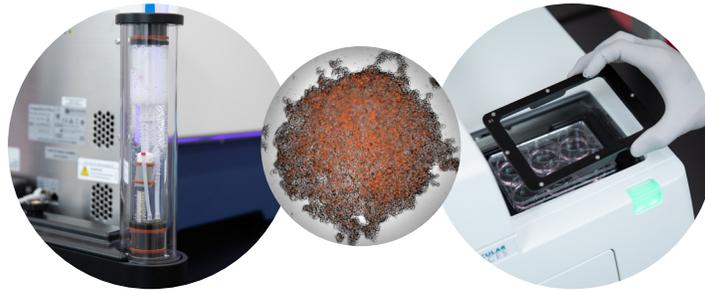


Monitor and measure changes in cell proliferation and cell phenotype over time with reliable time-lapse imaging and on-the-fly image analysis.

## Key features

- Enable live cell imaging and 3D acquisition in an easy-to-use system to better identify phenotypic changes
- Generate sharp images with a greater depth of field
- Minimize evaporation with humidity controls
- Maintain healthy cell growth environment with user-defined CO<sub>2</sub> settings
- Store the results of control parametrics with data for review even after the experiment ends
- Study the effects of hypoxic conditions over time
- Precise temperature regulation to mitigate thermal Z-drift throughout the entirety of the time-lapse acquisition
- Ensure optimal environmental conditions at the plate level without the need to flood the entire system

The external **humidity chamber** integrates via the rear of the ImageXpress Pico system to maintain a small surface area for small lab spaces.

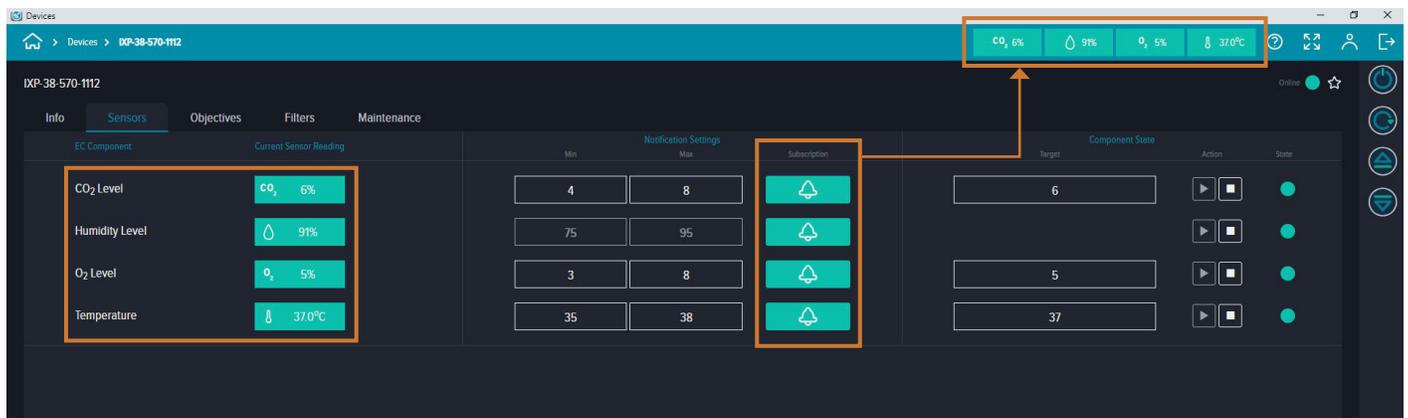


Microplates are placed in an **environmental control cassette** which introduces and maintains gas and humidity while reducing gas usage as compared to flooding the entire system. Cassettes can also be sterilized through UV.

## Environmental control settings

Settings can be configured through CellReporterXpress software and monitored during acquisition

- Monitor readings in real time
- Acquired sensor data is linked to the experiment
- Subscribe to alerts to watch multiple sensors and get notifications while working within CellReporterXpress software



## Environmental control specifications

Temperature control	Ambient +8°C to 40°C
Temperature control homogeneity	37°C ± 0.5°C at 23°C ambient
Gas control	O <sub>2</sub> control, 1–15% and ambient, CO <sub>2</sub> control, ambient to 15%
Humidity control	Active humidity control. Sample compartment controlled to 85% nominal humidity.

For more information, please visit [moleculardevices.com/pico](http://moleculardevices.com/pico)

The ImageXpress Pico system features optics by Leica Microsystems.

### Contact Us

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