

LiveCell™



- Temperature
- CO₂
- Humidity
- O₂
- Easy to use

StageTop Incubation

LiveCell™ Stage Top Incubation System :°C, CO₂, %RH, O₂:

With control over Temperature, CO₂, %RH, and O₂ the LiveCell™ system is the only fully integrated, easy to use stage top incubation platform. At the push of a button, you have adjustable, precise, and stable control of your time lapse imaging environment without the need for expensive pre-mixed gas, flow rate adjustments, or excessive evaporative loss of media.

Key Features

- 5 day walk away time.
- Uses inexpensive 100% gas supply.
- No tools are required to install.
- Fit nearly all new and legacy inverted microscopes:
 - Nikon
 - Leica
 - Zeiss
 - Olympus
- Is compatible with new and legacy automated stages.
- Chamber is just slightly larger than a multiwell plate and can incubate plates, chambered slides, and dishes.
- Is compatible with short working distance condensers.
- Visual alarms indicate instability
- Positive pressure flow ensures the environment in the chamber is the same as sensed.
- Easily transported to other microscopes or labs
- Modular design allows for future upgrades

Now time lapse observations can take place for days if not weeks with just one system, and one controller.

Temperature, CO₂, %RH, and O₂ are all fully adjustable through the front panel. A simple change of the target “Set Value” and the controllers will react and begin to maintain the environment at the new “Set Value”. Since the chamber is under a positive pressure, there is no doubt about the environment surrounding your cells.

Sensors located in the chamber and active humidification provides fine control of the humidity level inside of the chamber eliminate any worry of condensation that might damage your microscope.

The LiveCell™ system was designed with simplicity, stability, and flexibility in mind. Depending on your application, any of the functions can be enabled or disabled at the touch of a button. With the exception of temperature control, all of the other functions are optional and can be added at any time to make a completely integrated unit.

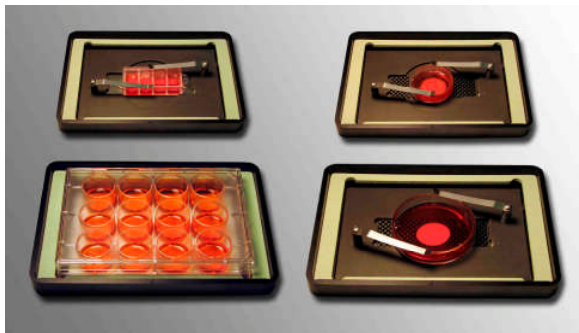
In order to keep the cost of use low, 100% CO₂, 100% O₂ are used, and there is no need to use special dishes or plates. With a nominal flow rate to the small chamber, the gas usage is minimal.

To operate the system you simply set the bottom half of the chamber in the stage opening, make the connections, add water to the humidification bottle, turn the system on, wait for stability, then add your sample.

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The green enable switches will determine which functions are on, the red alarm leds will tell you if the system is not stable, all the while the displays on the controllers inform you of the actual control readings.

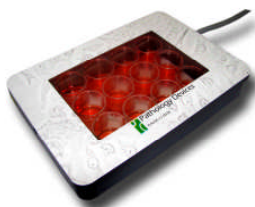
The chamber and its heated glass lid have no negative effects on (DIC) differential Interference Contrast imaging, fluorescence, or phase contrast imaging.



Accommodates nearly all disposables with one universal insert.



Integrated controller



Small easy to install chamber

Specifications

- Temperature: Room-50°C +/-0.1
- Temperature Accuracy: < 1.5 °C
- %CO₂ : 0.0-9.5% +/- 0.1%
- %CO₂ Accuracy: < 0.2 %
- %RH : Room – 90% +/- 5%
- %RH Accuracy: < 3%
- Power 110/220VAC 47/60Hz @2.3A
- System Weight 18 Lbs
- Warm up time <50 min
- CO₂ usage < 1 l/hr
- Operating temperature range 20-27°C
- Controller dimensions: 10in deep, 13.5in wide, and 5in tall.
- Chamber dimensions: 4.5in deep, 6.5in wide, and 1in tall.

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Ordering information:

| Description | Part Number | Retail Price USD |
|---|-------------|------------------|
| Heating Chamber Module | 05-11-0035 | \$9,322 |
| Heating Ludl Piezo Chamber Module | 05-11-0075 | \$9,858 |
| CO ₂ Mixing Module | 05-11-0036 | \$3,531 |
| Humidity Module | 05-11-0037 | \$1,953 |
| Universal Insert (replaces all other inserts) | 05-11-0076 | \$524 |
| O ₂ Mixing Module | 05-11-0078 | \$2960 |

To configure a system, the bare minimum would be a Heating Chamber Module. The other Modules can be added, or not, depending on the application.

All prices are USD and subject to change



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