



IRISTM

Incubers Real-time Imaging System

Live cell imaging incubators for continuous monitoring and logging.

Features

Hypoxic CO₂ Incubator

Incubate your cultures in their ideal CO₂, O₂, and temperature conditions with 1 - 21% O₂ range.

Live Cell Imaging

Capture 20x phase and GFP time lapse videos of your experiments without ever removing them from the incubator.

Live Monitoring & Logging

Monitor and log CO₂, O₂, and temperature levels over time to record a complete history of all experiments.

Dynamic Environments

Program IRIS to modulate temperature, CO₂, and O₂ over time for any desired specialized environment.

Small Footprint

Create numerous independent environments with a footprint of just 1.25 ft² per unit.



Our Customers



UNIVERSITY OF OTTAWA
HEART INSTITUTE
INSTITUT DE CARDIOLOGIE
DE L'UNIVERSITÉ D'OTTAWA



University
of Windsor

IRIS

Incubers Real-time Imaging System

Preliminary Technical Specifications

Mechanical	External Dimensions (WxDxH)	15" x 12" x 19"
	Internal Dimensions (WxDxH)	8" x 12" x 16"
	Chamber Volume	25 L (total)
	Shelving space	8" x 12" x 16"
	Weight (w/ shelving)	40 lbs
Thermal	Temperature Control Range	Room Temp - 50 °C
Humidity	Humidity	~90%
	H2O Sensor Model	GSS ExplorIR - W
	Water Quantity	1 L
Gas Supply	Gas Purity	Medical Grade
	Tank Pressure	5-10 PSI
	Measure and Control Range	CO2 (ambient - 21%)
		O2 (1% - ambient)
	Control Deviation	0.1%
	Recovery Time @ 5%	CO2 (<3 min) O2 (<5 min)
	Accuracy	± 70 pmm
	O2 Sensor Model	LuminOx Optical Oxygen
	CO2 Sensor Model	GSS ExplorIR - W

Preliminary Technical Specifications

Power Supply	Source Voltage	110-220 V
	Rated Frequency	50-60 Hz
	Rated Current	2 A
	Rated Protection	UL, CSA
Electrical System	Rated Voltage	12V DC
	Rated Current	8 A
Imaging	Optical arrangement	Inverted
	Field of View	Fixed
	Magnification	20X
	Imaging	Phase Contrast
	Fluorescence	GFP
	Camera	10 MP Monochromatic

Note: *The specifications provided are preliminary and open to change. Modifications based on specific user needs can be discussed.*

The projected release date for IRIS is in Q4-2019.