

Bold Line Stage Top Incubator

Electrically heated stage top incubator with heated glass



www.oko-lab.com



Bold Line Stage Top Incubator comprises:

- Temperature Controller
- Gas Controller (CO₂ or dual CO₂/O₂)
- Incubating Chamber
- Humidity Module
- Touch screen interface
- Smart Box (optional)

The Bold Line Stage Top Incubator maintains the required conditions for live cell imaging right on the microscope stage.



Features:

- Temperature accuracy: $\pm 0.1^{\circ}\text{C}$ in sample feedback mode and $\pm 0.3^{\circ}\text{C}$ in chamber feedback mode, if room temperature is stable within $\pm 1^{\circ}\text{C}$
- Operated through OKO-TOUCH
- Automatic calibration routines
- Intelligent algorithm for fast thermal recovery after opening the chamber



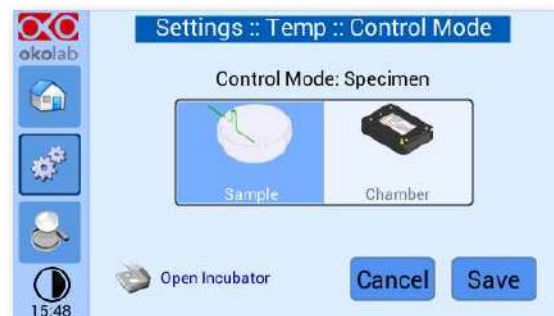
TEMPERATURE CONTROLLER

H301-T-UNIT-BL-PLUS is the most advanced solution for Temperature Control, it can run in two different modes, Sample or Chamber Feedback Mode.

It is compatible with Digital Gas Controllers and with Active Humidity Controller to ensure best environmental control for live cell imaging.

H301-T-UNIT-BL-PLUS has five independent temperature channels:

- Chamber Base
- Chamber Lid
- Objective Heater
- Sample Temperature Sensor
- Room Temperature Sensor



OKO-TOUCH interface

INCUBATING CHAMBER

All incubating chambers are made by the following components:

- Chamber main body
- Chamber Heated Lid with embedded temperature sensors
- Magnetic interchangeable inserts with magnetic sample fixing tools
- Removable Chamber Riser to reduce the height of the chamber
- Perfusion holes for inlet and outlet of tubes
- Optional Lids available

GAS CONTROLLERS

The Bold Line Stage Top Incubator can be equipped with Bold Line gas controllers and with the Active Humidity Controller.

Bold Line gas controllers features:

- 0.1% Accuracy and Repeatability
- Digital CO₂, O₂ sensors
- Operated via OKO-Touch
- Compatible with Smart Box



Technical specifications:

	CO ₂		O ₂		Output Flow Rate l/min
	Range, %	Accuracy, ±%	Range, %	Accuracy, ±%	
CO2-UNIT-BL	0-18	0.1	-	-	0.1 - 0.8 (0.4 with OKO-AIR-PUMP-BL)
CO2-O2-UNIT-BL [0-10;1-18]	0-10	0.1	1-18	0.1	0.2 - 0.8 (0.4 with OKO-AIR-PUMP-BL)
CO2-O2-UNIT-BL [0-20;1-95]	0-20	0.2 at 5% CO ₂ *	1-95	0.3 at 5% O ₂ *	*

*depends on the required gas concentrations. Please refer to www.oko-lab.com for detailed specifications.

TOUCH SCREEN INTERFACE

OKO-TOUCH is a user friendly 4.3" touch screen interface required to operate Bold Line controllers.

One OKO-TOUCH can control multiple Bold Line controllers.



HUMIDITY MODULE

HM-ACTIVE is a humidity controller equipped with a humidity sensor.

HM-ACTIVE controls gas relative humidity with a resolution of 1%. Operating thermal range is 25 - 50 °C. Dry gas is humidified by flowing over warm water. A heated tube delivers the humid gas to the stage top chamber preventing moisture condensation.

Operated through OKO-TOUCH.

SMART BOX

Smart Box connects to the Bold Line Controller and provides the following features:

- Data Logging
- Remote Operation of the incubator via Internet, Tablet or Smart Phone
- Video Streaming server
- Remote assistant

