

Incubate Your Dream...



NEW VERSION



Tokai Hit 22 year technologies into the Incubation System "STX"!

Kinki University: Dr. Kazuo Yamagata

Leads your cell culture to success

- World's best standards: maintains an ideal environment for cell culturing, Temp. HUM. and Gas CONC...
- Keep your cells alive more than 14 days for live cell.

Selectable Incubation Mode

There are 3 cell culture modes depending on your experiment or imaging.



Feedback Mode



Original Heating Method



Our original Top Heater is capable to maintain the sample Temp. for all major vessels including the wellplates.

Advanced Quick Mode

Accumulates more than 210 patterns of temperature regulation to maintain the sample temperature optimally.

Vessel Securing Lid

Holds the vessels and the sensor securely.

Top Heater

Original Glass Heater prevents the condensation, allowing clear and continuous imaging.

Sensor

Can measure the sample temperature.

Compatible with the 35mm/50mm/60mm petri dishes, slide glass, chamber slide, and chambered coverglass.

Sample Feedback Regulation



Sensor is auto-clavable

Measurements of the sample temperature regulates and maintains the optimal sample temp. by inserting sensor into the media.

Built-in Humidifier

Dish Attachment



This keeps the humidity rate inside the Chamber at over 90%.

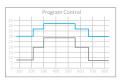
Distilled water

Tubes and Sensor Holders

Capable of holding the sensor or tubings used for experiments.

Bath Unit

Programmable Control



Programmable Cotrol for CO2/O2 and Temperature is possible.

(* O2 control is possible with O2 module)

Lens Heater

Strongly recommended when observing with high-magnification lenses and oil/water immersion lenses

Screen Capture



Capture and send the PC screen to desired email. (* PC has to be connected to internet.)

Controller



Model: WSKMX

Model: STXG

With built-in digital gas mixer for 100%CO2 gas cylinder use



Model: STXF

With a flow-meter for premixed gas (5%CO2+95%Air) cylinder use



Stress-Free Quality

• Varieties of new functions has achived the "Stress-Free Quality".

Touch Panel Control



Intuitive operation with simple actions.

Magnetic Fixing



Securely install vessels with no stress.

Strengthen Glass Top Heater



Lowers the risk of glass breakage that could stop your experiment.

Tangle-Proof Lens Heater Cord



The plug will automatically come off before the cord gets tangled into the objective revolver.

Simple Selections

- Now available with accessories.
- Varieties of Add-on options also available.

SET Model

All the accessories such as Dish Attachments or Fixing Lid are included as standard.

Chamber

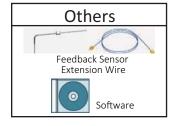




Dish Attachments





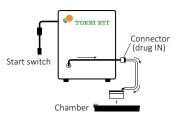


* ATX-A and LX-W include the Chamber which can install a well-plate.

Add-on Options

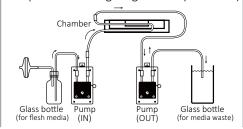
Drug administration

Allows rapid and vibration-free drug administration by delivering the drug by air. Enables to keep the same cell in focus before and after the delivery.



Perfusion / Media exchange

Allows perfusion / media exchange without removing dish lid and Top Heater. (Prevents contamination and media evaporation during long-term experiment.)



Hypoxia condition

Creates hypoxia and normal conditions with easy settings. Requires only CO₂ and N₂ cylinders allowing safe, low oxygen environment.

O2 concentration: 0.1% - 18.0%





Stage Top Incubator Culture Results

No.	Attribute of cell	Name	Details	Period
1	Cultured cell	STO	Embryo; fibroblast, mouse	5 days
2	Cultured cell	PC12	Pheochromocytoma; adrenal gland, rat (male)	5 days
3	Cultured cell	HeLa	Adenocarcinoma; cervix human (female, 31 years)	5 days
4	Primary	Human Embryo	Form fertilization to hatching blastocyst over 7 days	7 days
5	Primary	Neurons	Development of rat cerebral cortical neurons	4 days
6	Primary	Neural Stem Cells	Proliferation of neural stem cells of 14-day-old rat embro	7 days
7	Primary	Neural Stem Cells	Differentiation of rat neural stem cells to neurons and glial cells	7 days
8	Primary	Hippocampal Neuron	E18 rat hippocampal neurons, cultured in CO2 incubator for the first day	5 days
9	Primary	Cardiac Myocite	Neonatal rat heart, fetal mouse (13 days embryo) heart, observation of heart beast synchronization	3 days

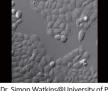
Time-Lapse Movies













Human Bone Cancer Cells - imaged every 5 minutes

Moritoshi Sato@Tokyo University 150 hours - Long term Mouse Keratubicyte DIC imaging

Dr. Simon Watkins@University of Pittsburgh HeLa Cells imaged every 15 minutes

Line-up

For XY motorized stage (with 160x110mm opening)

- STXG-WSKMX-SET With built-in digital gas mixer for 100%CO2 gas cylinder use
- STXF-WSKMX-SET With a flowmeter for premixed (5%CO2+95%Air) gas cylinder use

Applicable dishes:











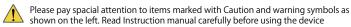




TOKAI HIT CO., LTD.

306-1 Gendoji-cho, Fujinomiya-shi, Shizuoka-ken, 419-0074 Japan TEL: +81 544-24-6699 FAX: +81 544-24-6641

E-mail: solution@tokaihit.com website: www.tokaihit.com



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