From the foot of Mt. Fuji to the WORLD

TOKAI HIT will...

Pursue the joy of inspiring our customers. Manufacture products conscientiously. Contribute to our community and society.



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Tokai Hit Official character Tokai Twins Mikan & Charly

All for living cells, All for your imaging.







TOKAI HIT Co., Ltd.

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It is essential to read the instruction manual when using this device.

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CA-EVGEN-EN-08



Warming Box. for EVIDENT IX85/IX83

The first enclosure aimed to optimize the sample temperature from beneath the vessel.

<WarmingBox for EVIDENT IX85>

Focusing on optimizing temperature from below!

◆ Nosepiece Heater

- Heats the nosepiece (revolver) area for better sample temperature uniformity and keeps the sample temperature stable even when the front panel is opened.





Optimize temperature inside the box with double heaters!

◆ Panel Heater

- Heats up inside of the enclosure and protects from temperature disturbances from the outside environment.





Enclosure for microscopes Varming Box_® for EVIDENT IX85/IX83

First of its kind! The first enclosure aimed to optimize the sample temperature from beneath the vessel.

Nosepiece

Heater[®]

Duct-free design

Compact design but keeps the temperature performance up by using both Nosepiece Heater and Panel Heaters.

Easy pillar tilting

Can tilt the pillar without opening the top panel of the enclosure.



Switchable LED light

Can turn ON/OFF the LED with IR motion sensor, LED color can be changed between white and red.



Legless design

Achieves great compatibility with other devices. EVIDENT SpinSR10, FLUOVIEW series (FV1000/1200/3000/4000), Yokogawa CSU-W1, Crest Optics V2/V3/Deep SIM, etc. can be installed without any interference by the box.

Eco-Friendly, Save Energy

The maximum power consumption is only 108W. Compared to the conventional series, it is cut by more than half.

WarmingBox Sample Time-lapse

<HeLa cells, 72 hours time-lapse> EVIDENT IX83 + Cell cycle indicator Fucci (CA)

Courtesy of Naoki Komatsu and Atsushi Miyawaki, Laboratory for Cell Function Dynamics, RIKEN Center for Brain Science





Video

Stage Top Incubator is no longer necessary! • Opening the door won't affect the sample temperature! HeLa cells (96 well) Courtesy of Naoki Komatsu and Atsushi Miyawak Laboratory for Cell Function Dynamics. **RIKEN** Center for Brain Science WarmingBox Line-up

Vicroscope	Color	Model
IVOS	Black type	IX85WB-BK
1799	Front-clear type	IX85WB-CL
IVOD	Black type	IX83WB-BK
1799	Front-clear type	IX83WB-CL

* Chamber type depends on the microscope stage. Stage Adapter may be required additionally. * Depending on the accessories (camera, stage etc.), the model can be customized model. Please contact us for details

Package Contents

<WarmingBox for IX85>



HeLa cells stably expressing H2B-BFP nuclear marker and Fucci(CA) cell cycle indicator were imaged for 3 days at 10 minute intervals by wide-field fluorescence microscopy. Microscope system used comprises the following elements: Evident IX83, 40X dry objective lens and Tokai Hit WarmingBox.

A I for Living cells for your imaging

Benefits of under-vessel control The installation of the lens heater used in the Stage Top Incubator is no longer necessary! The sample temperature on well plates is completely stable by using it with Stage Top Incubator!



WarmingBox

Incubation System for microscopes



Stage Top Incubator®

Offers precision temperature, humidity and CO₂ control for your cell culture on a microscope. Enables Time-Lapse Imaging of short and long term (more than 2 weeks) experiments.

Happiness for Cells, Success for Researchers RELIABILITY meets INNOVATION

With a stable cell culture environment, ease of use, support for a wide range of applications, and the ability to tailor to your work, we meet the needs of researchers.





Controller dimensions $W110 \times D208 \times H206 (mm)$

40% more compact compared to the previous version!

SUB HEATER port

Equipped with SUB Heater port as standard. Items such as External Humidifier, Tube Heater etc. can be added.

	External Humidifier
I See man	Tube Heater
*	Additional Lens Heater

TOP HEATER Auto-Calibration

With a single click, the optimal temperature of the TOP HEATER is determined according to your environment.

Tap Calibration	SMALL ID	exticn C
	CALIEBAT	101° 37
Turn on Sample feedback	ENTIFICATI	ATERT 42
	5140E HEA 8140E HEA 807 [38	38
Automatically saves in Top Heater SV	LENE HEAT	.0 37
	C022 258	J 5.
Calibration finish	28.8 36.1	* 108
		0 22

Variety of options

A wide range of add-on options, such as culture under perfusion and pressure control, are available to meet your various needs.





for ibidi u-slide

Pressure perfusion system

Accurate and uniform temperature

TOKAI HIT Heating Quality

Tokai Hit's original Top Heater is proven to distribute heat uniformly within the Chamber regardless of the type of vessel.



Uniform temperature distribution between wells and within a well.

No risk of collision with objective lens

With unique Top Heater Heating regulation, the bottom of the Chamber is accessible for a variety of objective lenses. (No metal plate on the bottom.)

Maintains high humidity

The built-in internal humidifier minimizes the change in concentration of the media by heating the distilled water of the water reservoir to maintain high humidity levels.



Internal humidifier by Bath Heater

5



Real-time Sample Feedback Regulation Sterilized temperature sensors and magnetic lids make it easy to measure the temperature of the culture media for your research needs. The controller regulates the heater based on the sensor signal to keep the sample at the target temperature accurately.



Stable CO2 environment

The controller mixes 100%CO2 gas and the surrounding air automatically. Stable gas concentration inside the Chamber is kept by sending the mixed gas continuously. (%example of controller with a built-in digital gas mixer)







APX Series ■ For Evident APX100 ■ Sample temperature : 25~45°C Mounting stay With mounting stay ■ For well-plate and 35 60 small vessels For 100%CO2 gas cylinder Model STXG-APX-SET For Premixed gas cylinder Model STXF-APX-SET **IXLM** Series

- For Evident IXplore Luminescence imaging system
- Sample temperature : 25~45°C
- Chamber cable length: 3m
- For well-plate and small vessels



-	For Premixed gas cylinder	Model	STXF-IXLM-SET
	Gas mixer	Model	GM-3000
-	Shading box(For IX83 2 deck)	Model	IX83LMB-D2

35

Chamber Components



Top Heater

Main heater which heats the specimen uniformly from above by radiation heat. The transparent glass heater prevents condensation and supports clear visibility

Dish Fixing Lid

Easy securing of vessels with magnetic lid.

Dish Attachment

Supports 35mm dishes, 60mm dishes, chamber slides, slide glasses, chambered coverglasses and wellplates by changing the magnetic holder.

Water Reservoir

Bath Heater is embedded under the water reservoir and generates high humidity inside the chamber.

Access Ports

For temperature sensors and tubings for media exchange and drug delivery.

Lens Heater

Prevents the sample temperature from escaping to the objective lens. Especially effective under high magnification, oil/water immersion observation. * Possible to accommodate objectives up to ϕ 40mm. Thin type and wide type are available.





In case the objective collides with the bottom of the dish, a spring type buffering mechanism prevents damage of the dish/objective



Stage Top Incubator Culture Results

Туре	Name	Details	Period
Cultured Cell	STO	Embryo; fibroblast, mouse	Over 5 days
Cultured Cell	PC12	Pheochromocytoma; adrenal gland, rat (male)	Over 5 days
Cultured Cell	Hela	Adenocarcinoma; cervix, human (female, 31 years)	Over 5 days
Primary	Human Embryo	Human embryo in vitro; form fertilization to hatching blastocys	Over 7 days
Primary	Neurons	Development of rat cerebral cortical neurons	Over 4 days
Primary	Neural Stem Cells	Proliferation of neural stem cells of 14-day-old rat embryo	Over 7 days
Primary	Neural Stem Cells	Differentiation of rat neural stem cells to neurons and glial ce	Over 7 days
Primary	Hippocampal Neuron	E18 rat hippocampal neurons, cultured in CO2 incubator for the first day	Over 3 days
Primary	Cardiac Myocite	Neonatal rat heart, fetal mouse, heart beat synchronization	Over 3 days





Super-resolution (STED) imaging of mitochondria Courtesy of Dr. Simon Watkins and Dr. Claudette St. Croix Center for Biologic Imaging, University of Pittsburgh

Courtesy of N. Komatsu, A. Sakaue-Sawano and A. Miyawaki Center for Brain Science, RIKEN

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Fertilized egg development Courtesy of Dr. Kazuo Yamagata Department of Genetic Engineering, Kindai University

Stage Top Incubator[®]



Cooling/Heating Chamber *Cooling/Heating Chamber is not CE compliant.

Sample temperature : $15 \sim 40^{\circ}$ C (with dry lens) $20 \sim 40^{\circ}$ C (with oil/water immersion lens)



KRIX Series

■ For EVIDENT manual/motorized stage * Stage Adapter is required separately With Chiller Unit Sample Feedback regulation



For upright microscopes Sample temperature : 37°C **UKX** Series For most XY stages and fixed stage For small vessels 50 60 Slide dish 35 For 100%CO2 gas cylinder Model STXG-UKX-SET For premixed gas cylinder Model STXF-UKX-SET Openable Top Heater ------The metal Top Heater with this function makes it easy to position the objective lens before imaging.





Courtesy of Dr. Kazuo Yamagata : Department of Genetic Engineering, Kindai University





Dish Attachment	
For 35mm dish	UKX-D35
For 50/60mm dish	UKX-D56
For slide glass	UKX-SG
*One Dish Attachment is in	cluded as standard

Bracket

Braditot	
For manual stage	UKX-STD
For Narishige fixed stage	UKX-FNS
For Prior Z-deck	UKX-ZD
For stages with 160×110mm opening	UKX-SPC-3

* One-set is included as standard	
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Lens Heater	
Lens Heater UKX-LHD	
*Lens Heater is included as standard	
Lens Heater Optio	ons
Lens Heater Adapter	UKX-LHA-
Seal Ring	TMU-

*
 contains the diameter of the objective * One-set is included as standard

Add-on options

We offer suitable solutions depending on your experiments.



11

for Living cells for your imaging 🕈

	Perfusion

Add-on options

We offer the suitable solutions depending on your experiments.

External Humidifier

This device decreases the frequency of refilling the internal water for more than 3 - 4 days. By using this system with the internal humidifier, it ensures stable and high humidity throughout the experiment.

< When connecting to a STX controller >

Model HUMID2ST

[Components] Bottle Heater / Water Bottle



Model TPiE-HUMID2

[Components] Temperature controller / Bottle Heater / Water Bottle

* The bottle heater is controlled by a TPi controller.



Digital Gas Mixer

Digital Gas Mixer for the Stage Top Incubator. The model depends on which gas cylinder you use.



Model **GM-8000**

For low oxygen (Hypoxia) O2 concentration : 0.1~18.0% CO_2 concentration : 5.0~20.0% Gas cylinder : 100%CO2 & 100%N2 Dimensions: W160 × D260 × H187 (mm)



Model **GM-3000**

CO₂ concentration & flow rate

CO2 concentration : 1.0~20.0% Flow rate : 50~200 ml/min

Gas cylinder: 100%CO2

Dimensions : W121 × D174 × H157 (mm)

*The gas (CO2/O2) concentrations listed are the gas concentrations at the controller outlet.

Mini CO2 regulator

* MG1 is currently only available in the US and Japan.

There is no need to prepare a large gas cylinder, and no regulator operation is required. The gas is supplied at the optimal flow rate for the Tokai Hit incubator.



Reusable 35mm dish * Cvto-cell Chamber (Autoclavable)









Cover glass size : ϕ 25.0 (mm) Observation area : ϕ 21.0 (mm)



Digital Thermometer for research



IN/OUT Pipe for Media Exchange/Drug Delivery

1110001		
PSBD1	Pipe OD 1.1mm	
PSBD1H	Pipe OD 1.1mm	(with side hole
PSBD2	Pipe OD 2.1mm	
PSBD2H	Pipe OD 2.1mm	(with side hole

Customization





Hearing

Design

We support and design the instruments for customer's requirement with over 30 years of experience. Please let us know your needs and requirements. We can design a customized system for you. We are flexible to design for different sizes, temperature regulations, setting ranges, etc. Ex: Looking for a system for Patch clamp, system integration, unique design/size to installing to your system, etc. We value your needs and requirements. If you have any questions or concerns, please feel free to contact us.

Manufacturing

Assembly



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Glass/Metal Heater for microscope Thermo Plate[®]

Persues high-end User-Friendliness

Ensure more accurate and more reliable thermal control of the specimens during observation under a microscope. Our wide product range supports Biotechnology Science and Industry.



Smaller and lighter controller with a multi-function system that supports temperature management in various fields such as biological science.

Compact Controller

Minimized the controller to be as small as a smartphone. It is very useful for space saving in the clean bench.

> Controller dimensions : W85 × D135 × H30 (mm) Size : 232 (cm³) Weight : 170 (g)

One-touch calibration

Easy calibration to set the suitable PID value in your usage environment is available with just one-touch.

* Tokai Hit's ThermoPlate[®] is calibrated with the controller and the plate as a set, prior to shipping, to make the center of the plate temperature be at 37.0°C when the room temperature is 25°C.



10-year free repair service for glass breakage^{*1}

Glass heaters are made with strengthened hard glass and come with a 10-year free repair service for glass breakage. No more glass breakage and no more stopping your experiment. *1. Depending on the model



Continuous Current Control

In addition to PID control, Continuous Current Control minimizes the focus drift generated by thermal expansion and also prevents light intensity change compared to the conventional ON/OFF control.







Simple temperature measurement

The attached sterilized sensor can measure the actual temperature and correct the plate surface temperature. Enables the user to monitor and log the data of the temperatures.



Thermo Plate





Plate LED Indicator

Plate LED Indicator visualizes the plate condition without looking at the controller. The green LED lights up when the glass heater is ready.



State of LED	Condition of the plate
ON	The plate surface temp. is stable at the setting temperature.
Blinks slowly (per 1.0 sec.)	Running Calibration.
Blinks fast (per 0.2 sec.)	An error occurred.

* Plate LED is attached to some major models.

Thermo Plate[®]

Glass Heater Line-up

Microscope : 1X83/73

Microscope : IX series

Tokai Hit's Glass Heaters

Temperature setting range : Ambient~60°C (* Depending on the model)

Original clear glass heater maintains stable temperature.

Supports the needs in different various fields such as Time-Lapse in low magnification and/or IVF field.

Microscope: IX83/73/81/71/51/70/50, IMT2

plicable stage : XY manual (IX3-SVR)/motorized (IX3-SSU) stage

Glass thickness : 0.5 (mm)

licable stage : XY motorized stage with 160×110 mm opening

Glass thickness : 0.5 (mm)

Model TPi-IX3X 💖 🖳

Plate size: W189.5 × D155.5 (mm)

Heating area: W174 × D127 (mm)

Model TPi-SQX 💖 🖳

Plate size: W160 × D110 (mm)

Heating area: W128 × D84 (mm)

Applicable stage : Cross stage with 110 mm round opening verted



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Model **TPi-110RX** Model TPi-110R13

Glass thickness : 1.3 (mm) Plate size : ϕ 110 (mm) Plate size : ϕ 110 (mm) Heating area : W70 × D70 (mm) Heating area: W70×D70 (mm) * Ideal for relief contrast obs with a glass bottom dish



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nverted

Microscope : IX83/73



able stage : XY manual (IX3-SVR)/motorized (IX3-SSU) stage

Model TPi-IX3-13

able stage : Prior XY motorized stage H117 series

Glass thickness : 1.3 (mm)

Plate size : W189.5 × D155.5 (mm)

Heating area: W155 × D130 (mm)

Ideal for relief contrast observation with a glass bottom dish

Glass thickness : 0.5 (mm) Plate size : ϕ 110 (mm)

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Stereo

Heating area : W70 × D70 (mm)



Model TPi-WL

Glass thickness : 1.5 (mm) Plate size : W230 × D180 (mm) Heating area: W180 × D140 (mm)

Microscope: MVX10, SZX12/9/7

able illumination base : SZX-ILLK/ILLB2/ILLD2

Model TPi-SZX1

Glass thickness : 1.0 (mm)

Plate size : W205 × D205 (mm)

Heating area: W170×D170 (mm)

Glass thickness : 1.5 (mm) Plate size : W310 × D220 (mm) Heating area: W250 × D170 (mm)

Metal Heater Line-up

For oil/water immersion and high-magnification objective imaging Temperature setting range : Ambient~60°C

Focus drift is caused by thermal expansion from the ordinary ON/OFF regulation. Tokai Hit is applying Continuous Current Control regulation as a standard to minimize focus drift.





Temperature setting range : Ambient~45°C Prevents heat loss of the sample especially when using oil/water immersion and high-magnification objective.



Tube Heater Model TPIE-TH

Temperature setting range : Ambient~50°C A compact barrel-type heater. Simply wrap the media tubing for heating the media before inserting it.

licable stage : XY mechanical stage iverted



Microscope: CKX41/31, CK40/30/2

Dpright

Microscope : **BX, BH2, CX40, CH40/30** Applicable stage : XY mechanical stage

Model TPi-SX 🐶 🔛 Glass thickness : 0.5 (mm) Plate size: W142×D115 (mm) Heating area: W128 × D95 (mm)

UNIVERSAL Ŷ For various types of illumination bases Stereo

Glass thickness : 1.5 (mm) Plate size: W435 × D220 (mm) Heating area: W400×D175 (mm) Leg adjustment: 75~100 (mm) * Temperature setting : Ambient~50°C

Plate size : W150 × D117 (mm) leating area:W131×D95 (mm)

Microscope : CKX53X

licable stage : XY mechanical stage



Glass thickness : 0.5 (mm) Plate size : W190 × D138 (mm) Heating area: W174 × D127 (mm)













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roscope : IX series



Glass thickness : 0.5 (mm) Plate size : W160 × D110 (mm) Heating area:W128×D84 (mm



Andel TPi-CKTS Glass thickness : 0.5 (mm)

With Plate LED Indicator











ination base : SZX2-ILLB/ILLD/ILLK/ILLT/ILLTO/ILLTS Model TPi-SZX2X 🕪 Glass thickness : 1.0 (mm) Plate size: W238 × D227 (mm)

for Living cells for your imaging «



Model TPi-SZ2 Glass thickness : 1.0 (mm) Plate size : W278 × D175 (mm) leating area: W230 × D146 (mm)



Microscope : SZ60/40/11

For illumination bases of SZ60/40/11

Glass thickness : 1.0 (mm) Plate size : W180 × D230 (mm) Heating area: W162×D152 (mm

Plate size : W189.5 × D155.5 (mm)



Hot Plate Model TPIE-SP/SPE Temperature setting range : Ambient~45°C Light-weight and thin aluminum thermal plate. TPiE-SP : W482 \times D282 (mm) TPiE-SPE: W282 × D232 (mm)

Thermo Plate[®]

2-channel controller (Option)

2 plates can be controlled by TPiD controller. Any combination is possible.



Entire Surface Heating Plate

TPID

TPID

Temperature control before/after observation Temperature setting range : Ambient~50°C

Since the entire surface of the plate is heated, it can maintain the temperature of the sample under observation as well as the sample before/after observation. It is very useful when handling many samples.

Microscope : SZX16/10

Illumination base : SZX2-ILLB/ILLD/ILLK/ILLT/ILLTQ/ILLTS



Plate dimensions : W370 × D248 (mm) Heating area : < Glass part > W128 × D95 (mm)







By using a glass heater and a metal heater together, the temperature can be controlled uniformly over a wide surface.



KW series

BOX-type ThermoPlate[®] with a gas port.

Model **TPiD-KW** * Depending on the microscope stage, a Stage Adapter may be required.

A box-type ThermoPlate® with a gas port that can hold CO2 gas.

- · For inverted microscope
- Setting temperature : Ambient~50°C (Plate temperature)
- · Top Glass Heater prevents condensation on the dish.
- Double Heater system (Top Heater/Stage Heater) maintains the suitable sample temperature.
- · Multi-well plate can be used.

Mode	UNIV2-D35
Dish /	Attachment for 35mm
r-∎ Opt	ion

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Cooling/Heating Plate

Best for observing yeast, plants, marine samples, cultured cell, C. elegans and/or Planarian, etc.

Temperature setting range (Plate surface) : $4 \sim 60^{\circ}$ C

With electronic cooling element (Peltier module) and original control system, it allows responsive cooling and heating regulation.

It can be used for controlling activation of the common samples which are normally cultured at 37.0°C by lowering the temperature or observe expressions of samples at each temperature.

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scope : IX83/73/81/71/51/70/50, IMT2

able stage : Rectangular stage with ∳ 110 mm round opening



Model TP-CH110RBF-C Plate dimension : ϕ 110 (mm) Hole size : ϕ 20 (mm) * Bottom flat type





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Model TP-CHSQ-C Plate dimension : W160 × D110 (mm) Hole size : ϕ 20 (mm)

Plate





Plate dimension : W110 × D110 (mm) Hole size: ϕ 20 (mm)

Thermo Plate[®]

for Living cells for your imaging .





*Dish attachments for two to six 35mm dishes are also available.

		ТD
37°C	Cultured Cell	SERIES
28°C	Zebrafish	
25°C	Drosophila	
20°C	C. elegans	

* The plate may build condensation at the bottom when the setting value (SV) of the controller is set below 15.0°C (depending on the lab temperature). The system may not be suitable for - Long-term imaging

- Rooms with high humidity



Model TP-CH110R-C

Plate dimension : ϕ 110 (mm) Hole size : ϕ 20 (mm) * Surface flat type

Built-in cooling element (Peltier module) and the circulation of water will remove the h

Built-in dedicated chiller unit Cools the circulating water with sealed

water. It can also be used for long-term

Free demonstrations available. We will suggest Series In optimal experimental set-up for Please feel free to contact us. Output to the please feel free to contact us. Output to the please feel free to contact us. Output to the please feel free to contact us. an optimal experimental set-up for your needs.



\sim Plug and Play \sim

Easy to regulate and set up the perfusion pressure and flowrate.

Model: MVV-BPU

Pressure setting range : $0 \sim 200$ mHg Flow rate setting range : 0.2~6.0 mL/min

Plug and Play

All you need to prepare is the specimen, vessel, and culture medium. All-in-one package, ready for your perfusion culture experiment to be started quickly and easily.

Enables perfusion culturing inside a CO₂ incubator Thanks to the moisture-proof design and shielding technology, the experimental

set-up can be installed inside a CO₂ incubator.

Biomimetic Perfusion Control

Equipped with pressure control, constant flow, and pulsatile flow modes. Data logging is possible for output pressure and flow velocity data.

Cell Culture Inserts & Perfusion Culture

Achieves micro-scale perfusion inside an incubator and on microscopes.

Model: MKSE-D24X

Flow rate setting range $: 5 \sim 1000 \,\mu\text{L/min}$

Biomimetic Perfusion Culture

The porous membrane of the culture insert serves as a scaffold for cells to adhere and proliferate in three dimensions, mimicking an environment similar to biological tissues.

Inter-Organ Network

By culturing and perfusing 3D models of different organs in two separate containers, you can construct an in vitro experimental set-up for inter-organ networks.

Compatible with Stage Top Incubator

Microfusion culture can be performed on a microscope while enabling time-lapse imaging.

Data for Academic Papers

We can provide various data such as shear stress analysis and flow visualization.



Microchip & Live-cell Imaging

Achieves micro-scale perfusion inside an incubator and on microscopes.

Model: MVV-MKS

Flow rate setting range : 0.03~40.0 µL/min

- Compatible with Stage Top Incubator Microperfusion culture can be performed on a microscope while enabling time-lapse imaging.
- Quantitative control and monitoring With the optional "Flow Rate Feedback" function, perfusion at a constant flow rate is possible regardless of the condition of the flow path.
- Enables perfusion culturing inside a CO₂ incubator The moisture-proof design and shielding technology allows the system to be installed inside a CO2 incubator.

35mm Dish Perfusion & Live-cell Imaging

Comprehensive management of Perfusion, Medium Exchange, **Drug Administration, and Mixing**

Model: PMD-D35

Flow rate setting range : $40 \sim 100 \ \mu L/min$ Drug Administration : 20 µL~, Maximum 10 mixes Medium Exchange : Maximum 10 times possible

Minimum sample temperature changes

By applying a Tube Heater, temperature changes in samples during medium exchange and perfusion are minimized.

Hands-free sample operation

Can be operated without touching the sample, ensuring a stable observation environmer

Integration with external devices

Can be integrated with external devices such as microscopes via TTL signals.

Special Vessels Available

Custom-made vessels are possible. We can accommodate a wide range of needs, from vessels for cells and tissues to organs. Autoclave sterilization specifications are also possible upon request.

Our extensive experience:

various 35mm dishes, ibidi µ-Dish, µ-Slide, Transwell, PDMS devices, ALI (air-liquid interface) culture, oxygen gradient vessels, pressure gradient vessels, well plate sealed vessels, artificial blood vessels, rat liver, kidney, lung, small intestine, and many more. Please feel free to consult with us.



MiViVo













MiViVo