Product Specifications

Category	Item	Specifications		
Overview	Dimensions	$3,420 \text{ mm (W)} \times 1,000 \text{ mm (D)} \times 1,950 \text{ mm (H)}$		
	Weight	Approx. 2,200 kg		
	Biosafety measures	Equivalent to Class II biosafety cabinets (ISO 5 cleanroom)		
	Noise Level	Less than 70dB *(typically 60-65dB)		
	Other	On-board computer UPS to address sudden power failures		
	①Incubator	Dedicated racks for 100mm dishes and well plates. (Up to four racks, each rack stores x18 100 mm dishes or x18 well plates) Standard settings: Internal temperature: $37 ^{\circ}$ C, CO_2 level: $5 ^{\circ}$		
	②Imaging	Phase-contrast microscope (LED lighting), with auto focus feature		
	③Tilting	X-Y (2D) tilting		
	4 Centrifuge	1 - 1,500 rpm (approx. 400 G), 15 mL or 50 mL tube		
Main unit of the system	⑤Plate / dish supply	Dedicated racks for each cell culture plate/dish. (Up to two racks, each rack stores x7 100 mm dishes or x 6 well plates/rack)		
	6Heating	37 °C. (x4 50 mL and x1 15 mL tubes)		
	⑦Refrigerator	4 ± 2 °C Four dedicated racks. The default package includes: x1 500 mL bottle rack that stores x1 bottle; x1 1.5 mL tube rack that stores 16 tubes; x2 50 mL tube rack that stores 4 tubes. Option racks are available for 15mL tubes (stores 9 tubes per unit).		
	®Tube storage	Automatic feed : x1 50 mL tube, x1 15 mL tube, and x6 1.5 mL tubes Manual feed : x2 50 mL tubes, x2 15 mL tubes, and x3 1.5 mL tubes		
		Dedicated racks for Panasonic pipette tips. (Up to four racks, each rack stores x4 10 mL tips (100 tips in total)) 20 µL, 200 µL, and 1-mL pipette tips are also available (96 pcs/case, each rack stores x2 each type of tips).		
	10 Tube supply	x24 50 mL, x18 15 mL, and x32 1.5 mL tubes.		
	Liquid Handling	X-Y-Z (3D) and Y-Z (2D) arms, equipped with interchangeable units (for dishes and well plates, tubes, 20 μL/200 μL/1mL pipette tips, and 10 mL pipettes)		
	Operation unit	Dedicated control panel and PC for operation		
	Other	UV lamps for disinfection, Cell counting jig, and autoclavable waste tank (5L).		
Installation environment	Power supply	3-phase AC 200 V, 60 A, single line		
	CO ₂ supply	0.1 ± 0.05 MPa, outer diameter 6 mm air tube		
	Air conditioning	Temperature : 23 \pm 3 $^{\circ}$ C, Relative Humidity: 35 $-$ 70 %, Free from dust, oil mist, and corrosive gases		
	Installation floor	Floor levelness: ±25 mm, ±2 mm/m; Floor load capacity: 640 kg/m ²		
	Other	Not required (Main unit equipped with 6 sets of casters and adjustable feet), No floor vibration or electrical noise sources		



⚠ Safety Cautions

- Please read the User's Manual carefully to familiarize yourself with safe and effective usage procedures. ●To ensure safety when using this equipment, all work should be performed according to that as stated in the supplied Operating Instructions. Read your operating instruction manual thoroughly.
- Panasonic Group products are built with the environment in mind.



Panasonic GREEN IMPACT

For more information, please visit our website https://www.panasonic.com/jp/company/ppe/saibobaiyo.html

Panasonic Production Engineering Co., Ltd.

Zip code 571-8502 2-7 Matsubacho, Kadoma,Osaka,Japan; TEL: (+81) 6-6905-4882



The contents of this catalog are as of September 1, 2025.

© Panasonic Production Engineering Co.,Ltd. 2025

The color of the product is printed matter and may differ slightly from the actual color. The rating and design of the product are subject to change without notice for the purpose of improvement. This product is designed for use in Japan.Consult your dealer for overseas use. Be sure to read the instruction manual carefully before using the product.

Panasonic

Automated Cell Culture and Differentiation System



All-in-One Automated Cell Culture System

Streamline Your Workflow with a Unified Platform

- · Fully Integrated Automation: Automates cell culture, high-precision pipetting, and image analysis in a single system.
- Smart Data Management: Centralized control and tracking of experimental data for enhanced reproducibility.
- Consistent Quality & Efficiency: Reduces variability and manual errors, ensuring high-quality results every time

Ideal for a Wide Range of Applications

- Development of Differentiation Protocols and Reagents: Accelerate R&D with reproducible and scalable workflows.
- · Preclinical Data Collection & Validation: Generate reliable data for early-stage research and testing.
- Production of Specific Cell Types: Efficiently culture and supply target cells for downstream applications.

Application



Features

Medium change

Preparing the new culture medium

Warm up the new medium to the right temperature



Removing the old culture medium

Remove the old mediumwith the pipette attached to the arm



Supplying a new culture medium

Supply the prepared medium



The dish is properly tilted for efficient addition/removal of the medium while keeping the stress to the cells minimal

Cell passage

Collecting cells

Remove the old medium and clean cells with PBS. Then, add an enzyme to detach cells



Removing supernatant

Precipitate cells with a centrifuge and remove supernatant



Counting cells

Count the cells and dilute the solution to the correct concentration



Seeding cells

Seed cells in new culture dishes



Small footprint for better handling:

• The compact design allows for easy loading onto most freight elevators

Data management and traceability:

- Automated tracking system to streamline the data management and analysis across multiple series of experiments
- Ensuring data traceability to help customers comply with GLP and GMP
- The user authentication function provides a secure environment and another layer of traceability

User-friendly software and interface:

- Easy-to-use software with pre-installed methods to meet users' needs
- Visual programming tools to implement protocols without any coding

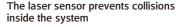
-		THE RESERVE OF
THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	9.00	The second second
1	-	DE ANNA
	modern.	STATE OF THE PARTY NAMED IN
		to the last
	Anaper.	Total Service Control
	-	
	Accordance from	EE S
	. 90	ESS E
	Secret diversi	SALE SALES AND THE SALES AND T
		Section 1
	0.4650	PROTESTING THE LOCAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF T
		1
		100
		2014
**		44 1004 40

Designed for safety:

- A multi-modal safety system integrates computer vision and other sensor data to proactively prevent incidents no matter the cause, whether due to human error, technical problem, or environmental factors
- A remote monitoring system alerts users when intervention or attention is required

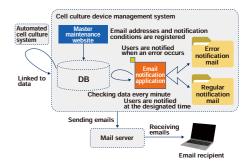
Three monitoring cameras detect and track all dishes, well plates, tubes, and pipette tips throughout each



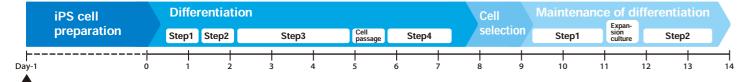




Remote monitoring system



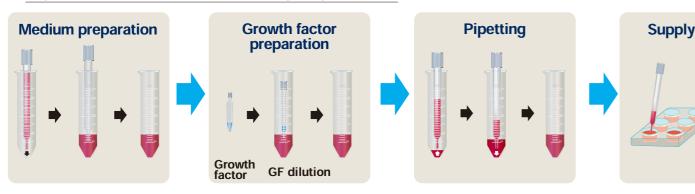
Differentiation



- *Sample timeline based on current use cases, including the establishment of cardiomyocytes, neural progenitor cells, hepatocytes, and keratinocytes.
- *Actual steps and timelines may vary depending on the cell type and methods

Automated and efficient sample preparation>

Precision liquid handling with accuracy down to a few microliters not only streamlines the process but also significantly reduces reagent waste - an essential benefit when working with growth factors



Functionally implementing the "Skilled Researcher":

- Four types of arms, each exceeding ISO 8655 precision standards, deliver exceptional accuracy
- The enhanced calibration of pipette tips enables the precise detection of liquid surfaces
- A proprietary pipetting workflow, inspired by the sophisticated techniques of experienced researchers, ensures consistent and reproducible results



Imaging:

- Cell counting from phase contrast images
- Easy to follow calculation for the specified density
- * Other features will be added soon

Proprietary pipetting workflow



Phase-contrast



Cell counting

