

<Specifications>

■ Electrophoresis Tank	
Overall dimensions	183mm(W)x56mm(H)x164mm(L)
Material	UV transparent plastic (50% at 254 nm, 80% at 312 nm)
Solution volume	Approx. 270-320 ml
Multi-sample	Multichannel-pipette compatible * See "Comb" column below
■ Safety Lid	
Overall dimensions	197mm(W)x38mm(H)x169mm(L)
Material	UV non-transparent * Note
■ Power Supply	
Overall dimensions	75mm(W)x62mm(H)x170mm(L)
Weight	410g
Input voltage	AC100-240V (Internationally compatible), 50/60 Hz
Output voltage	135V 100V 50V 25V 70V 35V 18V Constant peak voltage of 140V and duty control
Timer	Timer operation 0 - 99 min. and continuous mode Temporary shutdown supported
Safety switch	Micro-switches in the power supply without safety lid, no output of Power
Memory function	Automatic memory (the last used V & T)
■ Gel Tray	
Overall dimensions of small gel tray	130mm(W)x13mm(H)x59.5mm(L)
Overall dimensions of large gel tray	130mm(W)x13mm(H)x122mm(L)
Quantity	2 small gel trays; 1 large gel tray
■ Comb	
Multiple number of wells	13 - 26 wells (13wells: 9mm spacing 26wells: 4.5mm spacing)
Quantity	4 (supports making 13 or 26 wells)
■ Gel Casting Stand	
Makes 2 small gels or 1 large gel	
Overall dimensions	149mm(W)x20mm(H)x125mm(L)

* Note: Wear safety goggles when using the trans-illuminator or operating the equipment with ultraviolet rays through the lid slits.

● This product is subject to change without notice. ● "Mupid" is a registered trademark of ADVANCE Co., LTD.

**IMPORTANT**

To ensure safety, make sure you have thoroughly read the Instruction Manual before use.

Mupid-EXU[®]

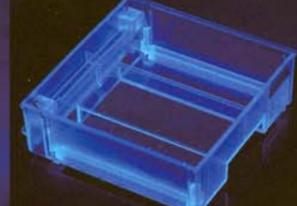
New Generation Submarine Electrophoresis System

**Multi Function Power Supply**

Timer: 0 to 99 min.
7 voltage variations

**Multichannel Pipette Compatible**

Allows formation of 13 or 26 lanes.
Max. 104 lanes(4 combs)

**UV Transparent Electrophoresis Tank**

Permits users to directly observe bands by mounting the tank on the transilluminator.

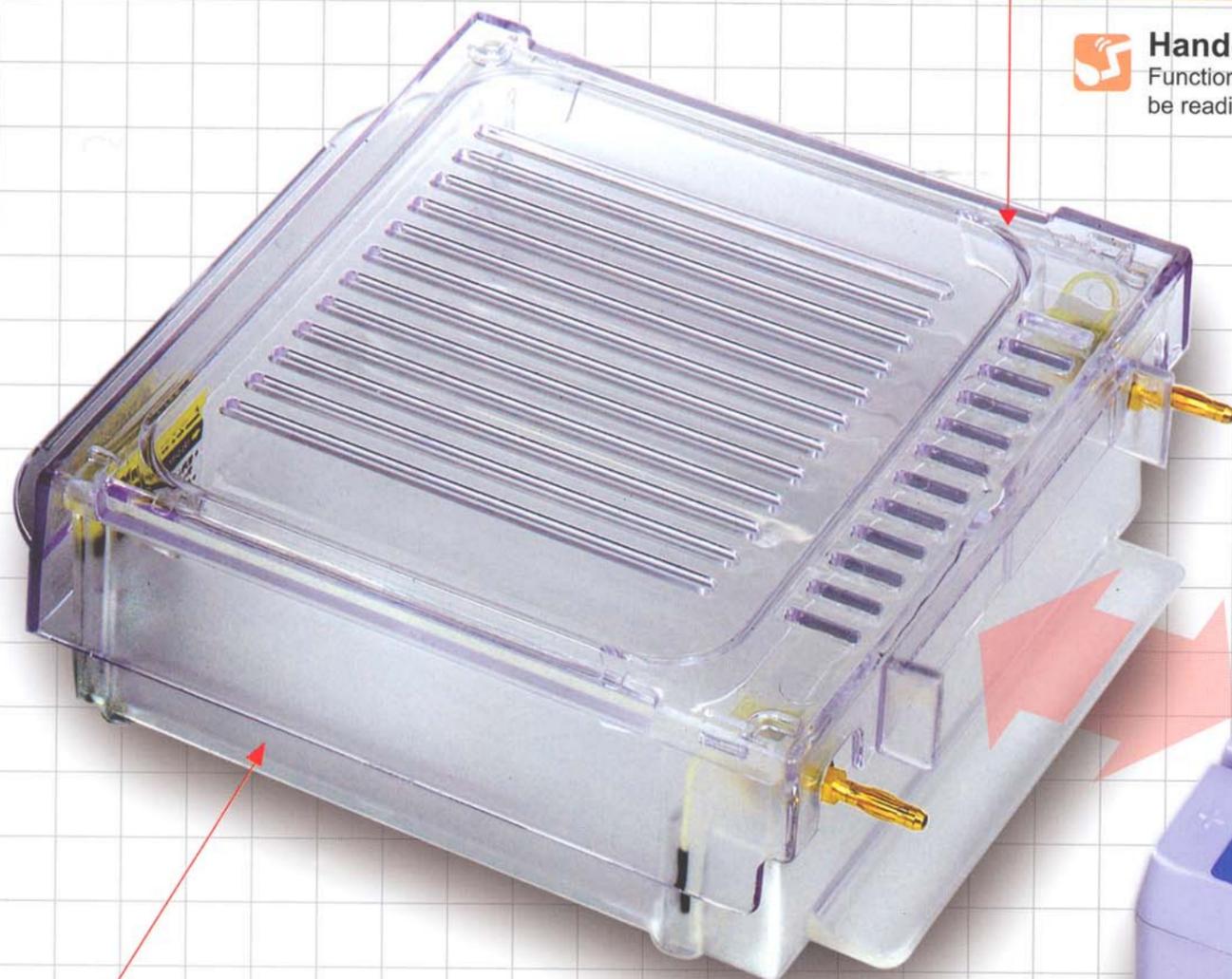
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Safety Lid



Handgrip

Functionally designed cover so as to be readily removed with only one hand.

Gel Tray



Large tray - standard accessory

One large gel tray with an electrophoretic distance of 12 cm as a standard accessory in addition to the 2 gel trays with an electrophoretic distance of 6 cm (*Note 1) supplied with the conventional Mupid.

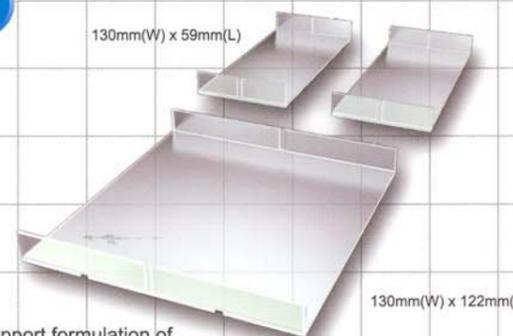
*Note 1: Same running length but different width from that of the conventional model.

Multipipette & multi-sample

Slightly larger Electrophoresis Tank and Gel Tray dimensions support formulation of 13 to 26 lanes. Well pitch matches the multichannel-pipette. The large gel tray can make up to 4 rows of wells (running length of 2.7 cm), so can handle up to 104 samples (26 x 4=104)

UV Transparent

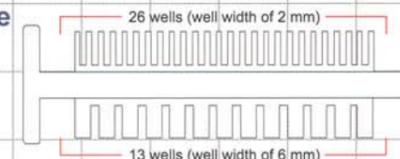
Optical transmittance is slightly lower than that of the Electrophoresis Tank, but supports UV transmittance.



Comb

Multichannel-pipette compatible

13 or 26 wells can be made with one comb. Comb teeth pitch matches the multichannel-pipette.



Gel Casting Stand

Comb position easily changed

Many comb setting grooves are provided in the stand. Supports a max. of 4 combs per gel with easy position change.

Power Supply



Timer function

The timer can be user-set from 0 to 99 minutes (includes alarm).



Main power switch

Stand-by mode supported with a switch on the rear of the power supply.



Voltage Variation Range

135V 100V 50V 25V 70V 35V 18V

In addition to 4 conventional Mupid-ex voltages (25,50,100,135), 3 new kinds (70,35,18) are available in the Mupid-exU (total of 7 voltage variations). Peak voltage is constant (140V) and output level changes through pulse control. See the waveform on the left.



Safety Lid with Interlock System

For prevention of electric shock, without the lid, main power can not be operated.



Current regulation

Rather than performing a forced shutdown when peak current is exceeded the Mupid-exU controls the voltage so that it can maintain the current at or below peak value for continuous operation.



Storage of set values

Set voltage and timer values used in the last experiment are automatically retained in memory (supports pausing).



Global input voltage compatibility

Variable input voltage of 100 to 240 V supports use virtually anywhere in the world. Individual country power supply cable may differ.

UV Transparent Electrophoresis Tank



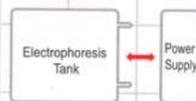
Multichannel-pipette compatible

Designed with slightly larger dimensions than the conventional Mupid, the Mupid-exU allows formation of 13 to 26 lanes. (Pitch: 9mm when using 13-well, 4.5mm for 26-well)



Washable

Tank can be separated from the power supply and is washable.



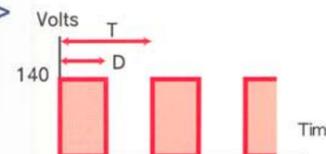
* Electrode connector is galvanized.



UV transparent

The Electrophoresis Tank of Mupid-exU is made of special material with a high rate of UV ray transmittance (50% at 254nm, 80% at 312nm) that allows users to directly observe bands by mounting the tank on the transilluminator.

<Waveforms>



Selected (V)	135	100	70	50	35	25	18
D/T (%)	97	72	50	36	25	18	12

* Constant 140V / peak voltage for any output voltage

* Movement stability improved over the conventional Mupid.