

## &lt;Specifications&gt;

■ Electrophoresis Tank	
Overall dimensions	183mm(W) x 56mm(H) x 164mm(L)
Material	<b>UV transparent plastic</b> (50% at 254 nm, 80% at 312 nm)
Solution volume	Approx. 270-320 ml
Multi-sample	<b>Multichannel-pipette compatible</b> * See "Comb" column below.

■ Safety Lid	
Overall dimensions	197mm(W) x 38mm(H) x 169mm( L)
Material	UV non-transparent * Note

■ Power Supply	
Overall dimensions	75mm(W) x 62mm(H) x 170mm(L)
Weight	410g
Input voltage	AC100-240V (Internationally compatible), 50/60 Hz
Output voltage	<b>135V 100V 50V 25V 70V 35V 18V</b> Constant peak voltage of 140V and duty control
Timer	Can be set between 0 and 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) x 16.5mm(H) x 59.5mm(L)
Overall dimensions of large gel tray	130mm(W) x 24mm(H) x 122mm(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 gel trays or 1 large gel tray	
Overall dimensions	140mm(W) x 20mm(H) x 125mm(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**

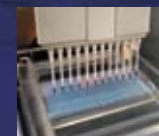
To ensure safety, make sure you have thoroughly read the Instruction Manual before use.

# Mupid®-eXU

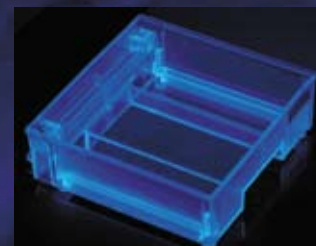
## New Generation Submarine Electrophoresis System

**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.





### Safety Lid



#### Handgrip

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

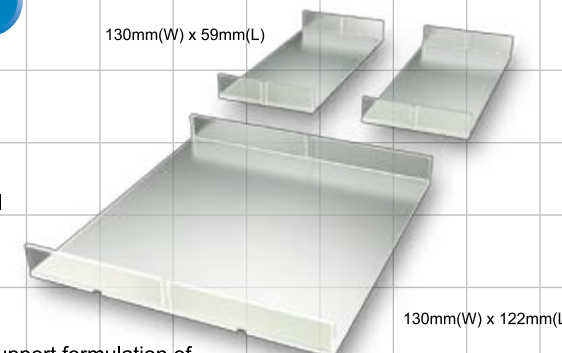
### Gel Tray



#### 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.



#### Multi-pipette & 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)

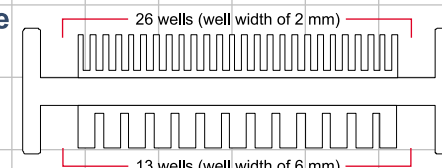
#### UV Transparent

Optical transmittance is slightly lower than that of 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

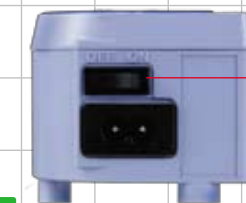
Many comb setting grooves are provided in the stand. Supports a max. of 4 combs per gel with easy position change.

### Intelligent Power Supply



#### Timer function

The timer can be user-set from 1 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 pretension 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.



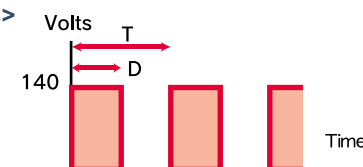
\* Electrode connector is galvanized.



#### UV transmittance

The Electrophoresis Tank of Mupid-exu is made of special material with a high rate of UV ray transmittance (50% for 254-nm rays, 80% for 312-nm rays) 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.