

KTAC-4000

Sonoporation Gene Transfection System

◆ Applications • In Vivo • In Ovo • In Vitro

• Chick Embryo (Limb Bud, Endoderm) • Mouse Heart Muscle • Mouse, Rat and Rabbit Muscle • Bovine & Dog Dental Pulp • Nude Mouse Subcutaneous Tumor • PVSMC, HCECs, HCAEC • Fibroblast, Chondrocyte • HeLa, KATO, MKN-45, CHO, NIH/3T3, HL-60, C1271 • T24, Mice Ascites, Rat Bladder, PC3, U937 • Activation of Oocytes



◆ Features

• Special Specifications Sonoprotator

The KTAC-4000 is designed especially for in vivo, in ovo and in vitro sonoporation.

• Optimization

All parameters, frequency, power, duty pulse cycle and burst rate, can be set flexibly.

• Real Time Display

The output level of ultrasound can be monitored at real time

• Flexible and Small Probe

With flexible and small probe sizes it is now possible to irradiate sample sizes that were previously impossible, thus expanding the possibilities of this research area.

• Easy Probe Replacement

Probes can be easily replaced from one to another.

• Frequency Sweep Function

Frequency changes within the preset range.

Four modes (increase, decrease, increase/decrease, decrease/increase) are available.

• Combination with Microbubbles

Sonoporation has become an effective and easy platform for enhanced gene transfection, especially when used in combination with microbubbles. KTAC-4000 is a leading device in this exciting application.

• Versatile

It is possible to use the KTAC-4000 to experiment in both In Vivo and In Vitro

◆ Specifications

Frequency	200k-5,000kHz (1kHz resolution) * Adjust the frequency to the most suitable frequency for the probe.
Power (Output)	0-3.00W (Setting: 0-100V)
Duty Cycle Rate	0-100%
Burst Rate	0.5-100.0Hz
Duration	0.1-999.9s (Auto), Manual
Wave Pattern Type	Sine/Rectangular
Frequency Sweep Function	Off + 4 Sweep Patterns (Increase, Decrease, Increase/Decrease, Decrease/Increase)
Frequency Sweep Width	±0.1-99.9%
Frequency Sweep Interval	0.2ms-100.0ms
Power, Dimensions, Weight	100-240V, 320W x 350D x 149H mm, 8kg