



BTX[®]

a division of Harvard Bioscience, Inc.

ECM[™] 830

Square Wave Electroporation System



The ECM[™] 830 is designed for a wide variety of in vitro and in vivo electroporation applications. BTX square wave technology provides the advantages of high transfection efficiency and high cell viability for numerous cell and tissue types. Applications of the versatile ECM 830 for gene, drug and protein delivery include mammalian cells, in vivo and ex vivo tissues, zebrafish tissue and embryos, plant protoplast, and basic bacteria and yeast transformations.

Multi-Well Electroporation

Transition from standard cuvette work using the safety stand to multi-well electroporation is quick and simple with the addition of a high throughput (HT) plate handler and multi-well plates. High throughput electroporation permits large numbers of samples to be quickly processed. Electroporation conditions are more easily optimized, providing the highest possible efficiency.

Monitoring Option

The addition of Enhancer 3000 allows the researcher to monitor and track key electrical parameters used in electroporation applications. The electrical pulse data is captured as both a graphic display of the waveform and electrical output values following each experiment. This data can be stored on a memory stick or downloaded to a computer easily by using the USB port for potential analysis, documentation, and validation purposes.

Applications

- Mammalian cell transfection
- In vitro, in vivo, ex vivo, and in ovo tissue transfection
- Explant tissue transfection
- Plant protoplast transfection
- High throughput electroporation in 25- and 96-well formats

Features

- Wide and accurate square wave voltage, and pulse duration settings
- Multiple pulsing capability and control of pulse intervals
- Preset protocols — including most common mammalian cell lines and tissues, as well as CRISPR applications
- User-defined protocols — unlimited ability to add and modify
- Safety — displays resistance measurements for each pulse with three layers of arc protection
- Data management — stores logs of every pulse delivered for QC and troubleshooting
- Ease of use — touch screen operation
- Can be used in combination with a wide array of BTX specialty electrodes and accessories to enhance your molecular and drug delivery for in vivo and ex vivo experiments.

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Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +375(257)127-884

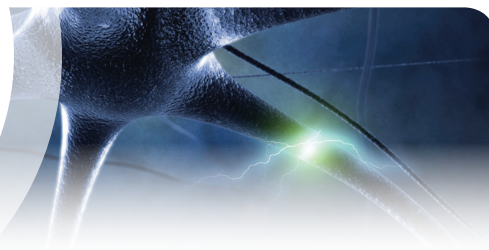
Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл. почта: bxt@nt-rt.ru || сайт: <https://btx.nt-rt.ru/>



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ECM™ 830 Specifications

Operational Status	Internal self-test upon start-up
Interface	Touch screen Interface
Input	100 to 240 VAC
Charge Time	LV <7 s, HV <4 s
Arc Control	Yes
Voltage Range	
LV Mode	5 to 500 V in 1 V steps
HV Mode	505 to 3,000 V in 5 V steps
Pulse Length Range	
LV Mode	10 to 999 μ s in 1 μ s steps
LV Mode	1 to 999 ms in 1 ms steps
HV Mode	10 to 600 μ s in 1 μ s steps
Multiple Pulsing	1 to 99 (per individual sample) or 1 to 120 (10 per sample, with HT plate handler)
Pulse Interval	100 ms to 10 s
Programmability	Storage over 1,000 Protocols
Safety	Pre-Pulse Sample Resistance Check, Pulse Over-Current Protection

Ordering Information

Order No.	Description
45-2052	ECM 830 Electroporation System with Safety Dome Includes: ECM 830 Generator, Safety Dome, Cuvettes 1 mm, 2 mm, 4 mm pkg. of 30 (10 each) and Cuvette Rack 660
45-0661	ECM 830 Electroporation System with Safety Stand Includes: ECM 830 Generator, 630B Safety Stand, Cuvettes 1 mm, 2 mm, 4 mm pkg. of 30 (10 each) and Cuvette Rack 660
45-0662	ECM 830 Generator Only
45-0667	ECM 830 System with Monitoring Includes: ECM 830 Generator, 630 B Safety Stand, Cuvettes 1 mm, 2 mm, 4 mm pkg. of 30 (10 each), Cuvette Rack 660, Enhancer 3000 Probe, Enhancer Interface Box, Oscilloscope and Cables
45-0663	ECM 830 High Throughput System, 25-well with HT-100 Includes: ECM 830 Generator, 25-Well Plates (2 mm gap, 6X), Plate Seals, HT-100 Plate Handler and a plate adaptor
45-0664	ECM 830 High Throughput System, 25-well with HT-200 Includes: ECM 830 Generator, 25-Well Plates (2 mm gap, 6X), Plate Seals, HT-200 Plate Handler and a plate adaptor
45-0665	ECM 830 High Throughput System, 96-well with HT-100 Includes: ECM 830 Generator, 96-Well Plates (2 mm gap, 2X), Plate Seals, HT-100 Plate Handler and a plate adaptor
45-0666	ECM 830 High Throughput System, 96-well with HT-200 Includes: ECM 830 Generator, 96-Well Plates (2 mm gap, 2X), Plate Seals, HT-200 Plate Handler and a plate adaptor
45-0668	ECM 830 High Throughput System with Monitoring Includes: ECM 830 Generator, 630B Safety Stand, Cuvettes 1 mm, 2 mm, 4 mm pkg. of 30 (10 each), Cuvette Rack 660, Enhancer 3000 Probe, Enhancer Interface Box, Oscilloscope, Cables, 25-Well Plates (2 mm gap, 6X), HT-200 Plate Handler and a plate adaptor

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эл. почта: bxt@nt-rt.ru || сайт: <https://btx.nt-rt.ru/>