

Burleigh's Piezoelectric Ultrafast Solution Switching Systems can change the chemical environment of a whole cell or excised patch with sub-millisecond time resolution. These systems are complete, practical and easy-to-implement approaches for rapidly moving a pulled theta tube and its exiting solution stream. Now you can uncover the actual kinetics of ion channels, reconstruct the naturally occurring conditions at the synapse of a neuron and eliminate the problem of desensitization resulting from longer time exposures to a drug in pharmacological studies.

Multiply the capabilities of the LSS-3000 Piezo Switcher by integrating an AutoMate Scientific perfusion system into one side of the theta tube. Choose one of up to 8 or 16 different perfusion solutions through one half of the Theta glass while control solution is directed at the patch. Then switch the piezo device to quickly deliver your solution and switch back to control. While control or buffer is flowing, you can select the next drug. In this manner many different compounds can be switched instead of just one.

Sub-millisecond Switching Ordering Information

Part No.	Product Description	Price
LSS-3100	Burleigh fast perfusion system - 70 μm travel	\$ 5,940
LSS-3200	Burleigh fast perfusion system - 200 μm travel. PZT element, PZ-150M amp, LS-10 mount, and CP-300 manual stage	\$ 6,930
SU-QT120-90-7.5	Quartz Theta Tubing - 50 pieces, 1.20 mm o.d. / 0.9 i.d., 7.5 cm length	\$ 72
SU-BT-150-10	Borosilicate Theta Tubing - 100 pieces, 1.50 mm o.d. / 1.17 i.d., 10 cm length	\$ 72

Email or visit web store for latest prices.

Rapid Solution Exchange



Two continuously flowing streams with well-defined interface and little mixing flow through the theta tube.

