

TSA₂ / *Advanced Thermosensory Stimulator*



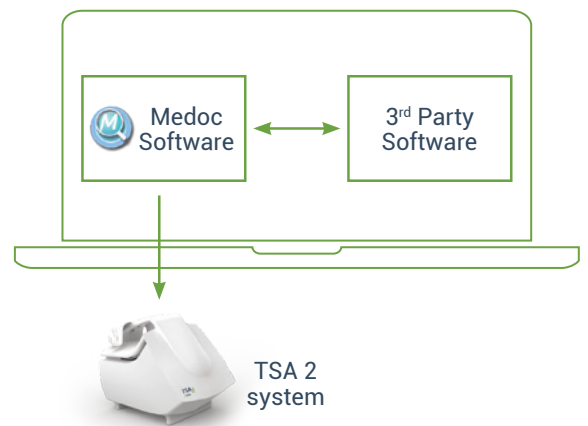
The Latest Advance in Thermal Pain Stimulation



- Precise stimulation temperature control
- External Control programming capability
- Rapid thermal stimulation rates- up to 13°C/sec
- Single and Dual Thermode configurations
- Upgradeable for the fMRI imaging environment

Control, Precision, and Dependability for your Research Needs

- ✓ Develop dynamic protocols using MATLAB® and similar platforms
- ✓ EEPROM embedded thermode for calibration monitoring
- ✓ Dual thermode model to facilitate CPM and other advanced protocols
- ✓ Fifteen years of advancements in meeting fMRI Imaging needs
- ✓ Thermode configurations for 30x30mm, 16x16mm, intra-oral, intra-vaginal and fMRI



Dynamic protocols delivered through external control



CPM protocol based on dual thermode configuration



Evaluation of Temporal Summation

CE 1282 FDA CLEARED

Comparison Chart

Parameter	TSA 2	Q-Sense	TSA Air2
			
Temperature range	0 to 53 °C	16 to 50 °C	0 to 53 °C
Maximum rate (°C/Sec.)	13	2	10
Available thermodes	30*30 - 16*16 - 30*30 fMRI - 16*16 fMRI - Intraoral - CHEPS - CHEPS fMRI	30*30	30*30
CHEPS available	✓	✗	✗
Cooling			
fMRI compatible	✓	✗	✗
External control	✓	✗	✓
TTL In/Out	✓	✗	✓
Modalities	CS, WS, CP, HP, tonic heat and cold, CHEPS	CS, WS, HP, tonic heat	CS, WS, CP, HP, tonic heat and cold
DUAL thermodes	✓	✗	✗

Decision support

