

SCOPE® Biphasic

A history of innovation....

A future of lifesaving technologies.

Patented Technology

HeartSine has developed a unique, patent pending, biphasic waveform, called SCOPE® or Self Compensating Output Pulse Envelope. This advanced technology energy delivery platform is available on our complete family of AED devices. Developed through extensive experimental and clinical testing the SCOPE® system gives unrivaled performance and optimizes defibrillation success.

Safety

SCOPE® incorporates a patient safety feature which limits the current delivered at higher energies. This ensures that patients only receive the energy that can have therapeutic benefit, thereby limiting the risk of damage to heart cells.

Pulse SLOPE

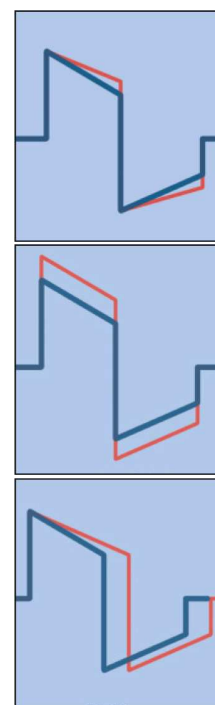
SCOPE® adjusts the slope characteristics of the energy waveform by switching in capacitance changes to provide an optimal current profile. The slope of this current profile is one element that ensures maximum defibrillation efficacy which is adjusted for each shock on each patient according to their impedance.

Pulse AMPLITUDE

SCOPE® will also vary the amplitude of the delivered waveform to compensate for a broad range of patient impedances. This means that for a given patient impedance and energy level, the correct waveform profile is delivered for each phase of the biphasic shock.

WIDTH

Varying the pulse width for both phases of the waveform profile, allows SCOPE® to compensate for a large patient impedance range. SCOPE® ensures that the energy pulse is delivered efficiently and safely. Adjusting the pulse width over a 3-12 msec range ensures the major portion of its energy pulse is delivered during this critical period, thus providing maximum therapeutic value.



Summary

- Escalating, low energy biphasic waveform: 150J - 150J - 200J
- Automatically compensates for each patient's resistances
- SCOPE® automatically optimizes the pulse envelope for one of the widest ranges of patient impedances — thus insuring high defibrillation efficacy.