

Bovie® Electrosurgery For the Office & Surgi-center



The Aaron 2250...

New Digital System by Bovie®

The Aaron 2250 is a multipurpose electro-surgical generator for use in the modern operating room and surgi-center. It features both monopolar and bipolar functions to satisfy all of your surgical demands with safety, flexibility, reliability, and convenience.

Ten Blend Settings

You don't have to settle for one or two blend modes anymore. With the Aaron 2250 you have ten different blend settings plus cut, all with 200 watts maximum power output for the most demanding procedures.

Two Modes of Monopolar Coagulation

It also has two modes of coagulation: Coagulation (120 watts maximum power) and Fulguration (80 watts maximum power), plus Bipolar (80 watts maximum power).

Digital Power Control

In addition, the Aaron 2250 delivers consistent, repeatable power into varying load impedances, with BovieDFDS™ (Fast Digital Feedback System), thereby greatly reducing the need for changing the power setting to obtain the desired surgical effect.

Why 200 Watts instead of 300?

Bovie's major goal in designing the Aaron 2250 was to deliver the absolute highest level of safety and quality, but not waste money on features you rarely use. One major area of savings can be found in the output power of 200 watts.

Nearly every hospital specification on an electrosurgical generator calls for 300 watts of power. Have you ever asked yourself why you need 300 watts at all stations when it is used so infrequently? We did. It results in spending a few thousand dollars more per unit for a feature that just is not used. For that matter, how often do you use over 120 watts of power?

By calling for the Aaron 2250 in most of the surgical suites, you can save a significant amount of money.

Ten Cutting Blend Modes...

You don't have to settle for one or two blend modes anymore. With Bovie digital technology, you can choose from ten different blend settings. These are clearly indicated by the LED blend indicator bar conveniently located adjacent to the blend button controls.

When no LED is lit the Aaron 2250 delivers pure cutting power. As the "up" button is pushed the bar begins to illuminate. As the illumination advances from the bottom to the top the degree of hemo-stasis will increase and cutting speed may decrease.

The Aaron 2250 remembers its last settings; so when you turn the unit on, it performs a safety system check and automatically powers up to the last activated settings.

For your convenience, the power output of the Aaron 2250 is calibrated in watts with large, illuminated digital displays.

Coagulation Modes...

The Aaron 2250 offers two modes of coagulation: Coagulation and Fulguration. Coagulation (pinpoint) provides precise control of bleeding in localized areas. Fulguration (spray) provides greater control of bleeding in highly vascular tissues over broad surface areas.

Designed for Safety...

Electrosurgical safety is a combination of good equipment design and safe surgical practices. The Aaron 2250, as part of this combination, represents state-of-the-art design using the latest digital components. Bovie incorporated automatic safety systems into the Aaron 2250 like self-test circuits, audible tones, discreet outputs, and isolated output circuitry.

BovieNEM™ means safety is digitally designed inside. The FCFS™ (first come first served) discrete output design of the Aaron 2250 enhances safety by allowing only one output to be activated at any given time. This feature assures that only the device you first activate will be an active device. Secondary commands will not override the first command. As an example: while the monopolar foot controlled output is activated, all handswitching is inactive, as well as the bipolar footswitch capability.

For additional safety this unit has totally separate bipolar controls, discrete output, dispersive electrode fault alarms in both sensing and non-sensing modes, and is designed with an isolated RF output.

With the combination of isolated power output, its patented BovieNEM™, Bovie FCFS™ technology, and the constant digital monitoring of all functions, the Aaron 2250 is one of the safest electrosurgical systems available. The doctor's responsibility is simply to follow safe electrosurgical practices to insure his safety and the safety of the O.R. staff and patient.

Digital Error Detection...

Digital error detection means unsurpassed safety for the surgeon, O.R. staff, and patient. The Aaron 2250 constantly monitors every aspect of the Aaron 2250's output. At the sign of any problem the machine instantly disables the output and displays the appropriate error code on the display.

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Built to the Required Standards...

The Aaron 2250 has passed the following safety standards: CSA C22.2 NO 601.1-M90, UL 2601-1-UL, IEC 60601-2-2, CENELEC EN 60601-1-2, FCC PART 15 Class A.



The Goal...

We wanted to give the surgeon a multipurpose electrosurgical generator for use in the modern operating room or surgi-center. It needed to feature both monopolar and bipolar functions to satisfy all surgical demands with safety, flexibility, reliability, and convenience. This needed to be accomplished with today's economy in mind.

The Result...

The Aaron 2250 from Bovie.

The Aaron 2250 has ten blend settings plus cut. When no LED is lit the unit is in "Pure Cut" mode. As the "up" arrow is pressed the LED's will begin lighting from bottom to top, increasing hemostasis and possibly slowing the cut effect.



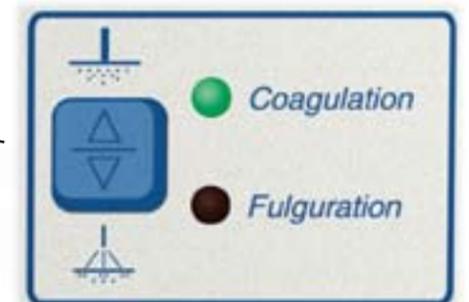
The Aaron 2250 has pad sensing technology, enabling the unit to discern whether the return electrode used is split or solid, and constantly monitors the circuit for tissue to pad contact. An alarm will sound in the event of a loss of contact.



For additional safety this unit has totally separate bipolar controls, discrete output, and is designed with an isolated RF output.



The Aaron 2250 remembers its last setting; so when you turn the unit on, it performs a safety system check and automatically powers up to the last activated settings.



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Aaron Recommended Accessories...



ESP1 Cut & Coag Control,
Disposable



BV-1254 Bipolar Footswitch



A1255A Adapter for
Connecting Footswitching
Pencil



ESREC Split Grounding Pad
with 2.8M cable



A1253 Monopolar Footswitch



Electrodes of the physician's choice.
(Blades, Balls, Needles, Loops)



ESMS-C Mobile Stand with
Smoke Evacuator Tray

Technical Specifications...

Dimensions:

Height	15.3 cm (6.0 in.)
Width	31.1 cm (12.3 in.)
Depth	41.3 cm (16.3 in.)
Weight	< 8.8 kg (< 19 lbs)

General:

Classification	Class 1 Equipment, IEC 60601-1
Type	BF (Defibrillator Proof)
Spillage Protection	Drip Proof (IEC 60601-2-2)
Output Configuration	Isolated (RF Floating)
Cooling	Natural Convection, No Fan

Input Characteristics:

Line Voltage	100 - 240 VAC
Line Frequency	50 - 60 Hz

Input Current:

4.5 A~

Output Characteristics:

Monopolar	Output Power	Output Frequency	Rep Rate
Cut	200 W @ 300 Ω	490 kHz ± 5 kHz	N/A
Blend (Max)	200 W @ 300 Ω	490 kHz ± 5 kHz	30 kHz ± 5 kHz
Coagulation	120 W @ 500 Ω	490 kHz ± 5 kHz	30 kHz ± 5 kHz
Fulguration	80 W @ 500 Ω	490 kHz ± 5 kHz	30 kHz ± 5 kHz
Bipolar	80 W @ 150 Ω	490 kHz ± 5 kHz	30 kHz ± 5 kHz
Duty Cycle	10 S / 30 S		

Distributed by:



7100 30th Ave. N. • St. Petersburg, FL 33710-2902
 U.S. Phone 1-800-537-2790 • Fax 1-800-323-1640
 Int'l. Phone +1-727-384-2323 • Fax +1-727-347-9144
www.aaronmed.com • sales@aaronmed.com