

vPad-ESU™

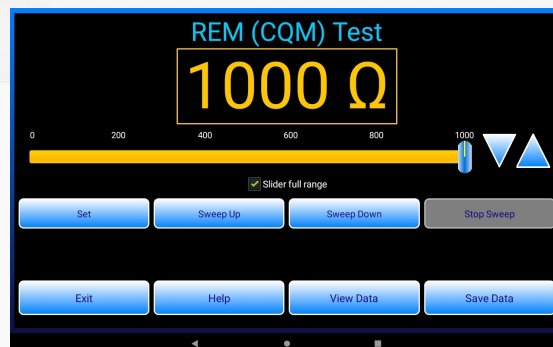
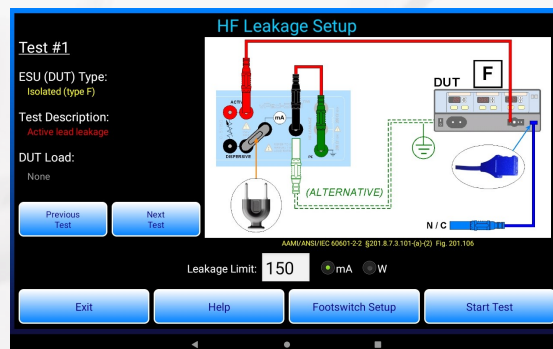
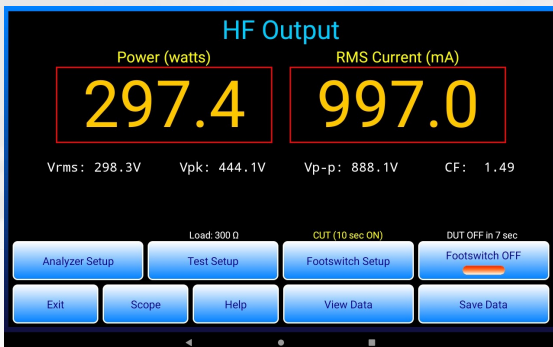
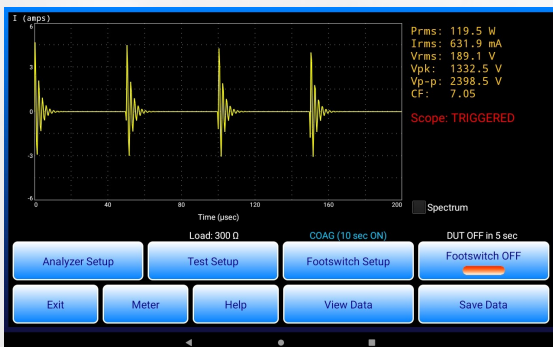
ESU Analyzer

vPad-ESU - the smallest full featured analyzer for testing Electrosurgical Units (ESUs). Built on the Vision Pad platform, vPad-ESU has everything you have come to expect from the technological leader in biomedical test equipment.

Key Features:

- Digital signal processor (DSP) enables accurate testing of all ESU makes and models, continuous, cut, coag, monopolar, bipolar
- Integration of ESU testing with HF digital storage oscilloscope and spectrum analyzer functions provides three pieces of test equipment in one
- High powered RF load provides settings required for all IEC 60601-2-2 tests, including Covidien ForceTriad maintenance procedures
- Wide measurement range - up to 8.5A
- Pre-Configured automated PM routines for most major manufacturers
- Works with vPad safety analyzers and automation apps.

Innovation by design



vPad-ESU™ - Technical Specifications

HF Power (RMS):

Range	0 - 999.9 W (as derived from HF current)
Accuracy	±(3% of reading + ½W)

HF Current (RMS):

Range	0 - 8.5 A
Accuracy	±(1% of reading + 5mA)

Voltage (RMS):

Range	0 - 999.9 V (as derived from HF current)
Accuracy	±(1% of reading + 1V)

Voltage (Peak):

Range	0 - 9999 V
Accuracy	±(1% of reading + 10V)

Crest Factor: 1.0 - 999.9 (as derived from peak/RMS ratio)

Instrument RF Bandwidth (-3dB): 250 Hz - 12 MHz

Isolation, PE to MD: 10 kV

HF Load:

Range	
Internal	Variable 0 - 5115 Ω
Internal + External	Max 30,000 Ω

Resolution (Internal)	5 Ω
Accuracy	± 1% +0.5, -0 Ω
Power, 50% duty cycle	200W @ 5 Ω 400W @ 10 Ω 600W @ 20 Ω 600W @ 40 Ω 600W @ 80 Ω 600W @ 160 Ω 600W @ 320 Ω 600W @ 640 Ω 530W @ 1280 Ω 260W @ 2560 Ω

RF Leakage Load:

Resistance	2 x 200 Ω
Accuracy	± 1%
Power, 100% duty	16 W

REM/CQM Test Resistance:

Range	0 - 1023 Ω
Resolution	1 Ω
Accuracy	± 1% +1, -0 Ω

All specifications subject to change without notice.



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Systems Inc.

Operational Duty Cycle:

Up to 100% in manually activated tests, 50% in automated footswitch activation, from 1 to 20 seconds

HF Digital Oscilloscope:

Vertical Ranges	0.125, 0.25, 0.75, 1.5, or 3 A / division
Vertical Range Selection	Manual or Automatic
Horizontal Ranges	1.25, 2.5, 5, 10, 20 or 40 µsec / division
Trigger Level	Adjustable, +/- edge

HF Spectrum Analyzer:

Vertical Ranges	Normalized dB or linear
Horizontal Ranges	62.5, 125, 250, 500, 1000, 2000 kHz / division
Frequency Resolution	1.22, 2.44, 4.88, 9.77, 19.5, 39.1 kHz

User Interface:

Android 10" Tablet providing Graphical User Interface, Wi-Fi & Bluetooth communication, 12 GB memory (or more – optional)

Power:

120 Volt power outlet	90 to 132 V ac rms, 47 to 63 Hz, 0.6 A max.
230 Volt power outlet	180 to 264 V ac rms, 47 to 63 Hz, 0.4 A max.

Size:

8.5 x 11 x 13 in.

Weight:

18 lb.

Environment:

59°F to 104°F, 10% to 90% RH,
Indoor Use Only, Category II



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