

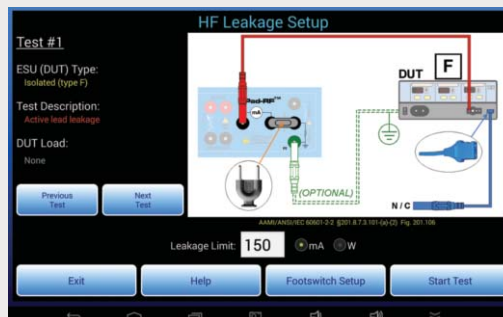
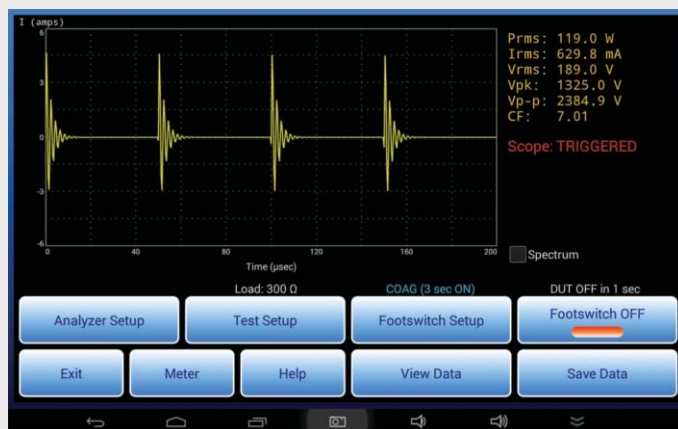
# vPad-RF™

vPad-RF - the smallest full featured analyzer for testing Electrosurgical Units (ESUs). Built on the Vision Pad platform, vPad-RF 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 and pulsed-waveforms
- Integration of ESU testing with HF digital storage oscilloscope and spectrum analyzer functions provides three pieces of test equipment in one
- Multi-pulse analysis averages measurements from multiple RF pulses, reducing errors caused by analyzing pulses in isolation
- 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-RF™ - 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 - 8.5A  
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

### Variable Load:

Range 0 - 30,000 ohms  
Resolution 5 ohms  
Accuracy ±1% +0.5, -0 ohms  
Power, 50% duty cycle  
200W @ 5 ohms  
400W @ 10 ohms  
600W @ 20 ohms  
600W @ 40 ohms  
600W @ 80 ohms  
600W @ 160 ohms  
600W @ 320 ohms  
600W @ 640 ohms  
530W @ 1280 ohms  
260W @ 2560 ohms

### RF Leakage Load:

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

### REM/CQM Test Resistance:

Range 0 - 1023 ohms  
Resolution 1 ohm  
Accuracy ±1% +1, -0 ohms

**Multi-pulse Averaged Results:** On-time, off-time & duty cycle

### 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 3A / 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, WiFi & 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:

15°C to 40°C, 10% to 90% RH, Indoor Use Only, Category II



All specifications subject to change without notice.



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