High-Voltage Generator & Analyzer

High-voltage Generator & Analyzer is a device, intended for different materials characteristics investigation with piezo-mesh-modules. This device is controlled from PC or laptop with easy to use graphical user interface (GUI). GUI allows user to control and display all necessary parameters and graphs according to the following table:

Modes of operation	Manual Mode
	Frequency Tracking Mode
Controls from the Laptop/PC via Software GUI	Carrier Signal Frequency
	Modulating Signal Frequency (Hz)
	Output Voltage (Vpp)
	Enable/Disable Modulation (bool)
	Manual Mode/Frequency
Parameters and Graphs displayed on Software GUI	Current over Time (graph)
	Voltage over Time (graph)
	Impedance (numeric value)
	Carrier Frequency (numeric value)

Device is designed and developed based on the following technical requirements:

Number of output channels	1
Carrier Frequency Range	100 kHz – 200 kHz
Modulating Signal Frequency Range	100 Hz – 50 kHz
Modulation Type	AM
Modulation Depth	100 %
Modulating Signal Type	Sine Wave
Output Voltage Range	30 Vpp – 100 Vpp (minimum of 0 Vpp will be considered during the design phase)
Output Power	Typical: 1-2 W Maximum: up to 5 W

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