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|-------------|--|---|--|---|
| Type | Frequency Generator and Amplifier | | | |
| Application | Plugs into 120-240VAC 50/60Hz Power Source Provides power to various Output devices | | | |
| Features | Frequencies (dependent upon Output device) | 3 Independent direct frequencies 1 to 4,000,000 Hz 5 Equal amplitude frequencies 1 to 100,000 Hz Multitude of frequencies with Custom Complex Waveforms | | |
| | Frequency Mixing | Single Mixed Carrier | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Programs | 1236 Internal non-volatile (User re-nameable) 255 User non-volatile (Completely configurable including name) | | |
| | Program Options | Run View | Create Edit | Copy Erase |
| | Sequencing | 80 Sequences per Program Single direct 40 Sequences per Program Mixed or Carrier direct | | |
| | Chain | Chain up to 100 Programs Repeat programs for unlimited program run time | | |
| | Outputs | 2 Pair Electrodes 1 Pair Raytubes 1 LED Wand 1 Auxiliary | | |
| | Simultaneous Outputs | Single Electrode + Raytubes, LED Wand, or Auxiliary | | |
| | Run Timer | 1 to 120 Minutes (per program), up to 8.3 Days and Indefinite time with Chain Pause/Resume | | |
| | Duty Cycle | 1 to 100% | | |
| | Intensity Controls | 1 to 100% Conductors (independent) 1 to 100% Radiators (independent) | | |
| | Program Variables | Name Use Defaults Output Run Time Duty Cycle Gate Waveform Gate Frequency | Electrode Intensity Raytube Intensity Soft Start Auto Shutoff Use Carrier Carrier Waveform Carrier Frequency | Frequency Waveform Frequency Add Frequencies Save Program Run Program |
| | Changeable Defaults | Show Instructions Power On Application Sequence Program Use Defaults Output Device Run Time Duty Cycle Gate Waveform | Gate Frequency Electrode Intensity Radiator Intensity Soft Start Auto Shutoff Use Carrier Same/Different Carrier Carrier Waveform | Frequency Waveform Carrier Frequency Frequency More Frequencies Save Program Run Program |
| Other | Built in Instructions Soft Start | Automatic Shutoff Program without Run | Run without Store | |

Electrodes

10/01/13

| | | | | |
|-------------------------------|--|--|---|---|
| Type | Conduction Device | | | |
| Application | Up to 2 pairs plug directly into the Ultra Powered by the Ultra | | | |
| Configuration | Fully balanced differential, Floating | | | |
| Energy type | AC Audio and Radio Frequencies (AF & RF) Conduction | | | |
| Frequency | Modes of Operation | Single or Multiple Frequencies with or without Variable Frequency Carrier Square or Linear Drive Frequencies and Carrier | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 4,000,000 Hz Squarewave (Rise and Fall time < 150ns.) 1 to 100,000 Hz all other Waveforms (Sinewave Distortion < 0.1% THD) | | |
| | Resolution | 1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz 100,000 to 4,000,000 Hz (100 Hz) | | |
| | Maximum Simultaneous Frequencies | 2 Individual 6 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Duty Cycle, Modulation & Gate | Modes of Operation | Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 10,000 Hz | | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz | | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Intensity | 1 to 100% | | | |
| Power Output | ¼ Watt Max. (dependent upon program & load impedance) Voltage 30 Volts PP Squarewave, 35 Volts PP all other waveforms | | | |

LED Wand**Models: LW640A Red, LW520A Green, LW467A Blue**

10/01/13

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|-------------------------------|---|--|---|---|
| Type | | Light Emitting Device | | |
| Application | | Plugs directly into the Ultra Powered by the Ultra | | |
| Configuration | | Unbalanced, Floating | | |
| Energy type | | Model HW640A Red 640nm light Model HW520A Green 520 nm light Model HW467A Blue 467 nm light | | |
| Frequency | Modes of Operation | Single or Mixed Frequencies with or without Variable Frequency Carrier Square Drive frequencies and Carrier | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 100,000 Hz | | |
| | Resolution | 1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz | | |
| | Maximum Simultaneous Frequencies | 2 Individual 6 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Duty Cycle, Modulation & Gate | Modes of Operation | Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 10,000 Hz | | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz | | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Intensity | | 1 to 100% | | |
| Power Output | | Model LW640A Red 24,000 mcd Max. Model LW520A Green 108,000 mcd Max. Model LW467A Blue 21,600 mcd Max. | | |

High Power LED Wand

Models: HW626A Red, HW530A Green, HW470A Blue

10/01/13

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|-------------------------------|---|--|---|---|
| Type | Light Emitting Device | | | |
| Application | Connects to Ultra Auxiliary connector through a cord Powered by the Ultra | | | |
| Configuration | Unbalanced, Floating | | | |
| Energy type | Model HW626A Red 626nm light Model HW530A Green 530 nm light Model HW470A Blue 470 nm light | | | |
| Frequency | Modes of Operation | Single or Mixed Frequencies with or without Variable Frequency Carrier Square Drive frequencies and Carrier | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 4,000,000 Hz Squarewave 1 to 100,000 Hz all other Waveforms | | |
| | Resolution | 1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz | | |
| | Maximum Simultaneous Frequencies | 2 Individual 6 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Duty Cycle, Modulation & Gate | Modes of Operation | Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 10,000 Hz | | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz | | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Intensity | 1 to 100% | | | |
| Power Output | Model HW620A Red 255 Lumens Max. Model HW530A Green 435 Lumens Max. Model HW470A Blue 174 Lumens Max. | | | |

Raytubes

10/01/13

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|-------------------------------|--|---|---|
| Type | Plasma Carrier Modulator | | |
| Application | 1 pair plugs directly into the Ultra Powered from the Ultra | | |
| Configuration | Fully balanced differential, Floating | | |
| Energy type | AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light | | |
| Frequency | Modes of Operation | Single or Mixed Frequencies @ Fixed Carrier (100kHz Nominal) Square Drive Frequencies, Linear Drive Carrier | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down |
| | Range | 1 to 100,000 Hz (only effective if below Carrier Frequency) | |
| | Resolution | 1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 100,000.00 Hz (0.1Hz) | |
| | Maximum Simultaneous Frequencies | 1 Individual + Carrier 2 Equal Intensity Harmonic Multipliers + Carrier Multiple with Pulse and Frequency Harmonics + Carrier Multiple with Custom Arbitrary Waveforms + Carrier | |
| Duty Cycle, Modulation & Gate | Modes of Operation | Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down |
| | Range | 1 to 10,000 Hz | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | |
| Intensity | 1 to 100% | | |
| Power Output | 30 Watts Max. (dependent upon program & load impedance) | | |

Vortex**Model: Vortex VM**

10/01/13

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|-------------------------------|--|---|---|---|
| Type | Plasma Carrier Modulator | | | |
| Application | Connects to Ultra Auxiliary connector through a cord Powered by the Ultra | | | |
| Configuration | Fully balanced differential, Floating | | | |
| Energy type | AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light | | | |
| Frequency | Modes of Operation | Single or Mixed Frequencies @ Fixed Carrier (50kHz Nominal) Square Drive Frequencies, Linear Drive Carrier | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 50,000 Hz (only effective if below Carrier Frequency) | | |
| | Resolution | 1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 50,000.00 Hz (0.1Hz) | | |
| | Maximum Simultaneous Frequencies | 1 Individual + Carrier 2 Equal Intensity Harmonic Multipliers + Carrier Multiple with Pulse and Frequency Harmonics + Carrier Multiple with Custom Arbitrary Waveforms + Carrier | | |
| Duty Cycle, Modulation & Gate | Modes of Operation | Variable Duty Cycle 100% Single or Multiple Frequencies Square or Linear Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 10,000 Hz | | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz | | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Intensity | 1 to 100% | | | |
| Power Output | 48 Watts Max. (dependent upon program & load impedance) | | | |

Beam Tube PCM**Model: BT PCM**

10/01/13

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|-------------------------------|---|--|---|---|
| Type | | Plasma Carrier Modulator | | |
| Application | | Connects to Ultra Auxiliary connector through a cord Powered by the Ultra | | |
| Configuration | | Fully balanced differential, Floating | | |
| Energy type | | AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light | | |
| Frequency | Modes of Operation | Single or Mixed Frequencies @ Fixed Carrier (168kHz Nominal) Square Drive Frequencies, Linear Drive Carrier | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 168,000 Hz Squarewave (only effective if below Carrier Frequency) 1 to 100,000 Hz all other Waveforms | | |
| | Resolution | 1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz | | |
| | Maximum Simultaneous Frequencies | 1 Individual + Carrier 2 Equal Intensity Harmonic Multipliers +Carrier Multiple with Pulse and Frequency Harmonics + Carrier Multiple with Custom Arbitrary Waveforms + Carrier | | |
| Duty Cycle, Modulation & Gate | Modes of Operation | Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 10,000 Hz | | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz | | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Intensity | | 1 to 100% | | |
| Power Output | | 48 Watts Max. (dependent upon program & load impedance) | | |

Beam Tube High Frequency PCM

Model: BT HF-PCM

10/01/13

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|-------------------------------|--|--|---|---|
| Type | Plasma Carrier Modulator | | | |
| Application | Connects to Ultra Auxiliary connector through a cord Powered by the Ultra | | | |
| Configuration | Unbalanced, Floating | | | |
| Energy type | AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light | | | |
| Frequency | Modes of Operation | Single or Mixed Frequencies with or without Variable Carrier Frequency Square Drive frequencies and Carrier | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 4,000,000 Hz Squarewave 1 to 100,000 Hz all other Waveforms | | |
| | Resolution | 1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz 100,000 to 4,000,000 Hz (100 Hz) | | |
| | Maximum Simultaneous Frequencies | 2 Individual 4 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Duty Cycle, Modulation & Gate | Modes of Operation | Variable Duty Cycle 1 to 100% Variable Modulation 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 10,000 Hz | | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz | | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Intensity | 1 to 100% | | | |
| Power Output | 48 Watts Max. (dependent upon program & load impedance) | | | |

Beam Tube EFG

Model: BT EFG

10/01/13

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|-------------------------------------|---|---|---|---|
| Type | | Electric Field Generator | | |
| Application | | Connects to Ultra Auxiliary connector through a cord Powered by separate 120/240VAC 50/60Hz source | | |
| Configuration | | Unbalanced, Floating | | |
| Energy type | | AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light | | |
| Duty Cycle, Modulation & Gate | Modes of Operation | Variable Duty Cycle 1 to 100% Single or Mixed Frequencies Square Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 666 Hz | | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 666.66 Hz (0.01 Hz) | | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Intensity | | Fixed 100% | | |
| Power Output | | 125 milli-joules/pulse (83 watts @ 666 Hz.) | | |

Beam Tube High Frequency EFG

Model: BT HF-EFG

10/01/13

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|-------------------------------|--|--|---|---|
| Type | Electric Field Generator | | | |
| Application | Connects to Ultra Auxiliary connector through a cord Powered by separate 120/240VAC 50/60Hz source | | | |
| Configuration | Unbalanced, Floating | | | |
| Energy type | AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light | | | |
| Frequency | Modes of Operation | Single or Mixed Frequencies with or without Variable Frequency Carrier Square Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 10,000 Hz | | |
| | Resolution | 1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) and 10,000 Hz | | |
| | Maximum Simultaneous Frequencies | 2 Individual 4 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Duty Cycle, Modulation & Gate | Mode of Operation | Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 10,000 Hz | | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz | | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Intensity | 1 to 100% | | | |
| Power Output | 20 milli-joules/pulse (72 watts @ 3,600 Hz.) (joules limited at higher frequencies) | | | |

12V Power Supply Adapter**Model: PS 12/24**

10/01/13

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|-------------|--|
| Type | Power Supply Adapter for the Ultra |
| Application | Provides power for the Ultra from a 12V DC source, such as a car, car battery, or Solar system Connects to Ultra through a cord |

Ultra Footbath**Model: BCX Ultra Foot Bath**

10/01/13

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|-------------------------------|--|--|---|---|
| Type | Electrolysis Generator and Modulator | | | |
| Application | Powered by 120-240VAC 50/60Hz source Plug into BCX Ultra Auxiliary connector for Modulation and Duty Cycle capabilities | | | |
| Configuration | Floating | | | |
| Energy type | DC Electricity with application changing polarity | | | |
| Duty Cycle, Modulation & Gate | Modes of Operation | Variable Duty Cycle 1 to 100% Single or Mixed Frequencies Square Drive Frequencies | | |
| | Waveform Types | Squarewave Sinewave Square Sweep Trapezoid Triangle | Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down | Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3 |
| | Range | 1 to 10,000 Hz | | |
| | Resolution | 1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.0 Hz (0.1 Hz) and 10,000 Hz | | |
| | Maximum Simultaneous Modulation Frequencies | 1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms | | |
| Intensity | Fixed 100% | | | |
| Power Output | 48 Watts Max. (dependent upon program & load impedance) | | | |