

# THE NEW BCX ULTRA

## ADVANCED RADIO FREQUENCY TECHNOLOGY

20YEARS of FREQUENCY TECHNOLOGY Design and Development

The BCX ULTRA is our finest Instrument to date, offering many extraordinary features.

The ULTRA has Radio Frequency (RF) in both glass tubes and electrodes that can be used simultaneously. The ray tubes produce a higher voltage while the electrodes produce a higher current. This combination produces even better results in your research on killing unwanted microbes. The greatest breakthrough in all our manufacturing years has been the spike wave. A close second is utilizing the RF carrier wave. All of our other features have been added to optimize to a fuller extent these 2 great pillars in devitalizing dangerous microbes. The BCX ULTRA offers many features other frequency devices do not. Dr. Rife used Ray tubes and so do we. Our hand held ray tubes are one very important feature allowing you to put the frequencies right where they are needed for maximum benefits.

Dr. Rife stated, "Now the spikes that you see on the frequencies are the lethal part that kill and devitalize the virus. They are the resonant peaks of the frequencies which increase the voltage to a very high potential which the cells of the virus wall can not tolerate and they break up into many pieces and are destroyed." This statement is according to John Crane who worked with Dr. Royal Rife.

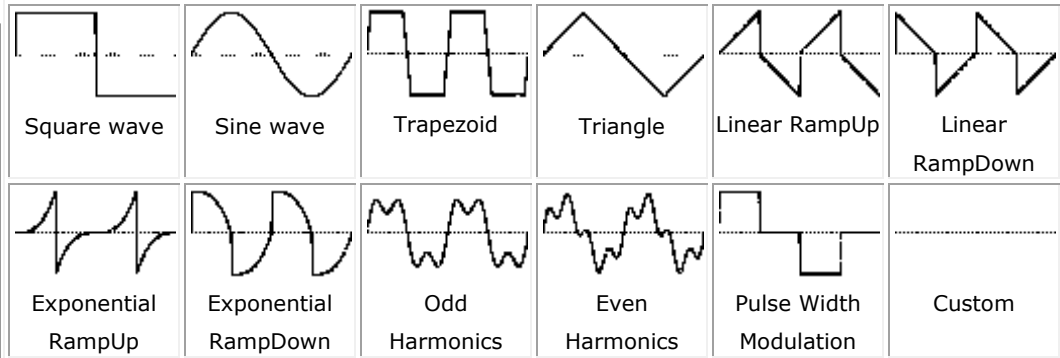


We have exciting multiple wave forms to choose from

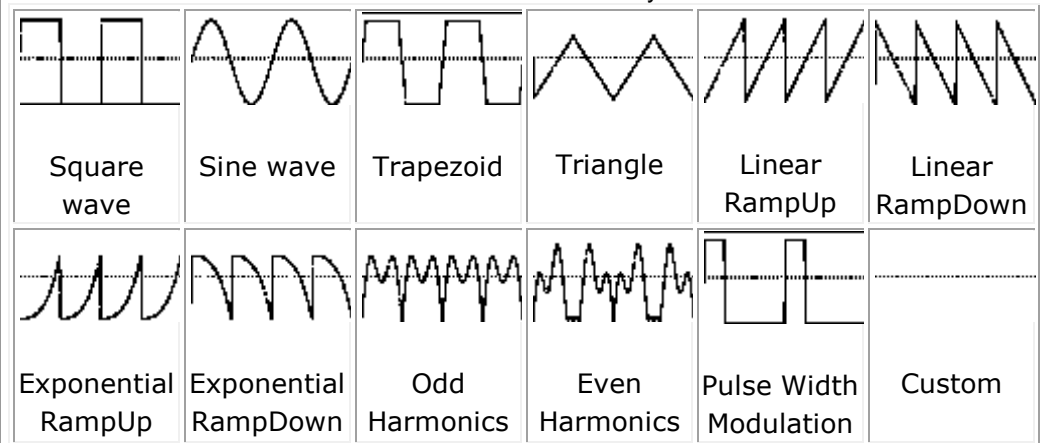
**WAVE FORMS:** You can use square wave for killing pathogens and can use sine wave for regeneration and healing. The Ultra has many other wave forms to choose from for experimentation.

**CARRIER WAVES:** The Ultra has a basic carrier wave that is preset at about 45,000 Hz for the glass tubes. There are 3 carrier waves to choose from for the rest of the electrodes. They are 1.67, 1.25 and 1.00 MHz (1,000,000 Hz).

The Ultra has a carrier frequency that penetrates deeper and farther. It has been shown in scientific studies on bioelectric impedance analysis in the body that audio frequencies will enter the body but only travel in the connective tissue around cells. Studies also show the closer to 1 megahertz the greater the penetration into the cells. Because of this Dr. Rife always used a carrier frequency in the MGz range so the frequency could enter the body and cells where the microbes are located. The BCX ULTRA has the ability to produce a 1 megahertz carrier frequency for better penetration deep into cells where the microbes live.



MODULATED WAVE FORMS with the ULTRA you can Select Modulation



In the case of electricity, power is determined by multiplying two factors: volts and amps. The waveform of the volts and amps determines its power in relation to its peak. The Ultra references to peak. This is why square waves have greater power density than sine waves or triangle wave...GATING OR ENTRAINMENT is what we used to call pulse on our previous machine. THE ULTRA uses 3.5 Hz as a default. Abrams, who worked with Rife, used 3.5-4 Hz for gating. Gating is another form of modulation. The Ultra modulates 2 frequencies when it plays an audio frequency with a Radio carrier frequency. In other words, the audio frequency is piggy backed onto a higher frequency. While this is happening, the Ultra introduces a 3.5 Hz gating which causes the tubes to blink as you run the frequencies. Entrainment (gating) is defined as the tendency of two oscillating bodies to phase together so that they vibrate in harmony. This principle of entrainment is universal in nature. By using the pulse (gating) you avoid the microbes adjusting to the frequency so they can be eliminated better.

This technology is not intended to prevent diagnosis, treat or cure any disease or condition. We make no claims, either stated or implied. If you are in ill health, see your healthcare professional. This device is for personal experimental research purposes only.

**The following is a comparison of the BCX Ultra to Most other "Rife type" devices.**

	<b>Most Rife type devices</b>	<b>BCX Ultra</b>
Outputs all Rife's original high RF frequencies	No- <b>Electrical Only</b>	Yes- <b>Through Ray Tubes</b>
RF Carrier	Mostly none	Yes
Simultaneous RF frequencies	0	3 pre-programmed <b>Infinite with custom waveforms</b>
Outputs simultaneous audio frequencies	2	3 pre-programmed <b>Infinite with custom waveforms</b>
Single audio frequency	Yes	Yes
Ray tube	No-	Yes
Ray tube harmonics	No- <b>No Ray Tube</b>	Yes- <b>Up to 20MHz electrical plus infra-red, electromagnet, electrostatic, light spectrum</b>
Frequency range	10,000Hz.most devices	1.67MHz direct <b>Infinite with custom waveforms</b>
Analog frequencies	Yes	Yes
50% duty cycle	Yes	Yes
10 - 90% duty cycle	Yes	Yes- <b>Is actually 1 - 99% Duty Cycle</b>
Square Wave	Yes	Yes
Sine Wave	No	Yes
Hoyland Wave	No	Yes
Pulse Modulated Wave	No	Yes
Triangle Wave	No	Yes
Trapezoid	No	Yes
Exponential RampUp Wave	No	Yes
Exponential RampDown Wave	No	Yes
Linear RampUp Wave	No	Yes
Linear RampDown Wave	No	Yes
Odd Order Harmonic Wave	No	Yes
Even Order Harmonic Wave	No	Yes
Custom Waves		
Power level (approximate)	10 watts with Opt. SR-4	18 watts standard <i>Conductive power limited to safe levels</i>
Pre-Programmed auto channels	Yes	Yes
Programmable channels	No	Yes
Gating features	Some	Yes
Frequency sweeps	Yes	Yes- <b>Custom Modulation</b>
Converge sweeps	Sometimes	Yes <b>Custom Modulation</b>
Displays actual frequencies	Sometimes	Yes

**A summary of weaknesses in many common so called “RIFE Machines”.. *Please understand to the best of our current knowledge NO ONE makes & sells “Original Rife” equipment or machines contrary to the many claims being made.***

- Complicated and confusing to program & use
- Keyboard works poorly- hard to press, double entries
- Many have software and hardware problems
- No way to re-run a program unless stored to memory
- Time not programmable into program
- Poor electrical performance
- Problems with multiple run frequencies
- Poor Square wave waveform resulting in bad harmonic performance
- Unbalanced output resulting in un-symmetrical delivered power

The premise of many so called “RIFE” machines is their claim that they can directly generate the highest Rife frequencies electrically through conduction rather than by means of a ray tube. Although they can generate the frequencies conductively, their system does NOT deliver the same types of energies. Ray tubes deliver a broad spectrum of energies, ranging from infrared, to electromagnetic fields, to electrostatic fields, to conductive electron flow (plain old electricity), to light in the visible spectrum and beyond. The only energy most “Rife machines” deliver is plain old electricity.

Although the manufacturers of “Rife type” devices attempt to argue otherwise, it is categorically true that “Skin Effect” prevents high frequency electron flow (plain old electricity) from penetrating deeply into ANY electrically conductive material. The higher the frequency, the shallower the penetration. At frequencies above 1MHz, skin effect will limit penetration to a fraction of an inch.

A serious problem with many so called “ RIFE” machines is poor Square wave signal quality. A Square wave generates a predictable series of odd order harmonic frequencies with an accurate energy balance. The closer the Square wave is to perfect, the more accurate the harmonics are. Low Rise and fall time is the most difficult element to achieve in a Square wave. A perfect Square wave has a rise time of zero, so the lower the rise and fall is, the better the Square wave and thus the harmonics are.

**BCX Ultra/BCX411:** 150nsec from 1 to 100KHz, 1MHz, 1.25MHz, 1.67MHz

#### **About Custom Waveforms and Custom Modulation:**

A fundamental difference between the BCX Ultra and most other Rife type devices is the way that they generate waveforms. Many units use a DSP (digital synthesizing processor) which, by nature, is only capable of generating diSquare waves waves. By using filtering techniques, the circuit is capable of approximate Sine wave ne wave by “rounding off Square wave re wave. This is, of course, not particularly accurate, meaning that the purity of Sine wave wave is compromised and most machines have NO sine waves..

The BCX Ultra uses entirely different electronics. It contains 3 separate Microprocessors each of which creates an “Arbitrary Waveform”. Arbitrary Waveforms are exact and pure creations of natu occurring and incidentally occurring waveforms. Examples of natu occurring waveforms are Sine, Square, Triangle, Exponential, and Linear. An example of an incidentally occurring waveform is the Hoyland Waveform. The BCX Ultra faithfully reproduces the waveform that Hoyland generated using a complex array of apparatus. In fact, the Hoyland Waveform in the Ultra was created by digitizing an actual copy of Hoyland’s test data. Another example of Arbitrary Waveforms are the Ultra’s Odd Order Harmonic and Even Order Harmonics waveforms. The Odd Order Harmonic Waveform produces a fundamental, and the 3’rd, 5’th, and 7’th harmonics is perfect harmonic proportion. The Even Order Harmonic Waveform produces a fundamental, and the 2’nd, 4’th, and 6’th harmonics in perfect harmonic proportion.

With Arbitrary Waveforms, the Ultra can produce ANY waveform imaginable- accurately, and perfectly. Harmonics can only be generated accurately and correctly if the fundamental waveform is accurate.

The BCX Ultra contains 3 Arbitrary Waveform generators, which when combined together can produce an un-imaginable combination.

# SPECIFICATIONS:

The BCX has been totally upgraded and improved making the BCX Ultra the most advanced Instrument in its field. The BCX Ultra now has more power and greater harmonic resonance and includes all the same accessories. The improved BCX technology is a more compact design, now you can take it anywhere with you.

**Physical Dimensions:** 11.0" x 8.0" x 3.0", 2.5 lbs

**Power supply: Input:** 100-240VAC, 50-60Hz, 1.2A. **Output:** 24VDC @ 2.0A. 5.5" x 2.5" x 1.5", 1 lb plus cords

## Controls & Indicators:

- Input: 1 - jack for Power Input (DC power plug, 2.5mm, center positive)
- Outputs: 5 - jacks for Electrodes (2 pairs), Raytubes, LED Wand

## External:

- **Input/Output:** jack for Computer (USB Type B)"
- **Input/Output:** Controls: 8- momentary pushbuttons for Power On/Off, Start/Pause, Stop, Change +, OK/, Change -, Back"
- **Indicators:** 5- Green LED 16 character alphanumeric display, LED indicators for Raytubes, Electrodes, LED Wand, and Operating.

## Functions:

- View Built in Instructions
- Run a Pre-program - Scroll or select from either Factory Created name or number, both of which are displayed on the screen.
- Run a User program - Scroll or select from either User Created name or number, both of which are displayed on the screen
- Create, Edit, Save, Run a User program
- View a Program
- Copy a Program to another User program location
- Erase a User program
- Computer Control

## Capabilities:

- **Factory Pre-programs** 1424
- **User Custom programs:** 256
- **Output frequencies simultaneously:** 1 (Single) or 2 (Dual) - Sequence Frequencies per Pre-program or User program: 80 single frequency, or 40 dual frequencies

## Variables for each Program (User changeable for User programs):

- **Number:** 4 digits
- **Name:** 8 Alphanumeric Characters
- **Output Type:** Select from 7 types - \*Electrodes, \*Raytubes, \*LED Wand, \*Auxiliary, \*Electrodes & Raytubes simultaneously, \*Electrodes & LED Wand simultaneously, \*Electrodes & Auxiliary simultaneously
- **Duty Cycle:** 1 to 100%
- **Duty Cycle Pulse:** Waveform type: Select from 15 types Range: 1 to 10,000 Hz, \*Resolution: 1 to 9.9999 to 0.0001 Hz, 10 to 99.999- 0.001 Hz, 100 to 999.99- 0.01 Hz, 1,000 to 9,999.9 Hz- 0.1 Hz
- **Electrode Intensity:** 1 to 100%
- **Raytube Intensity:** 1 to 100%
- **LED Wand Intensity:** 1 to 100%
- **Auxiliary Intensity:** 1 to 100%
- **Run Time:** 1 to 120 minutes
- **Soft Start/Stop:** Yes or No
- **Automatic Shutoff:** Yes or No
- **Frequencies:** Single (Frequency A only) or Dual (Frequency A & B simultaneously)
- **Frequency A:** Waveform type: Select from 15 types (Mhz frequencies- Square only)  
**Range:** 1 to 100,000 Hz, 1.00 Mhz, 1.25 Mhz, and 1.67 Mhz \*Resolution: 1 to 9.99999 to 0.00001 Hz, 10 to 99.9999- 0.0001 Hz, 100 to 999.999- 0.001 Hz, 1,000 to 9,999.99 Hz- 0.01 Hz, 10,000 to 99,999.9 Hz- 0.1 Hz
- Frequency B: Waveform type: Select from 15 types  
**Range:** 1 to 100,000 Hz, \*Resolution: 1 to 9.99999 to 0.00001 Hz, 10 to 99.9999- 0.0001 Hz, 100 to 999.999- 0.001 Hz, 1,000 to 9,999.99 Hz- 0.01 Hz, 10,000 to 99,999.9 Hz- 0.1 Hz
- Sequence: Up to 80 single frequencies for Single, or up to 40 dual frequency pairs for Dual

**Waveform Types:**

Square, Square Sweep, Sine, Trapezoid, Triangle, Linear Ramp Up, Linear Ramp Down, Exponential Ramp Up, Exponential Ramp Down, Odd Order Harmonics, Even Order Harmonics, Custom 1, Custom 2, Custom 3, Custom 4

**ELECTROTHERAPY DEVICE – DISCLAIMER:**

The BCX Ultra Plasma Frequency Instrument is not approved by the F.D.A. as a Medical Device. They are experimental electronic instruments. They are not intended for the diagnosis, prevention, treatment, cure or mitigation of any disease in humans. They are not designed to affect the structure or function of any system in the body. If you have a health-related condition that requires medical attention, always consult with a licensed health care professional.

NOTE: You should realize though, that you do have LEGAL Rights to self-medicate under the 9th Amendment of the United States Constitution.

**PRECAUTIONS:**

- \* DO NOT use ANY Electrotherapy Device, if you have a Cardiac Pacemaker, Internal Defibrillator or Metal Implant.
- DO NOT use ANY Electrotherapy Device, if you are a Pregnant Woman, have Heart Disease, are driving or are using HAZARDOUS Machinery.
- \* These Devices should also be kept out of reach of Children.
- \* DO NOT place Electrode Pads over Skin Lesions, Abrasions, NEW Scars, Cuts, Eruptions, or Sunburn.
- \* DO NOT advance Output Amplitude to UNCOMFORTABLE Levels.
- \* DO NOT fall asleep, while using.
- \* If you feel Sluggish, Faint, Dizzy, Headachy, Nauseous, or have Flu-like Symptoms after Exposures, REDUCE Number of Pulses per Session and/or SHORTEN Session Times.
- \* Use CAUTION, if you have IMPAIRED Kidney or Liver Function.

**OPTIONAL** FREE-STANDING VORTEX MODULATOR AVAILABLE ON THIS SITE.