

Manual



From BFC Software Version: 1.0.4.3
MTD Hardware Version: 5.2
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Introduction

The Basic Frequency Calculator or shortly called the BFC is made to calculate the harmonic frequencies towards the basic frequency that would produce these harmonics. This program is typically used in combination with the product Mobile Treatment Device either MTD and for the 4 Stage Resonance Generator (4SRG). These are both products of Don-Neo Technologies.

Installing the required software

The Basic Frequency Calculator (BFC) software can only be installed on a computer running Windows XP, Windows 7 or Windows 8.

The BFC software uses a database. For reading, writing and modifying the database files, the software uses the functions that are provided by Microsoft Access Database Engine. This part is an important basis for the BFC software. Therefore, it is important install the software in the following order:

1. Install Microsoft Access Database Engine
2. Install the BFC Startup Manager
3. Install the BFC Software

These installation steps are described in more detail below.

1. Install Microsoft Access Database Engine

Start the file “AccessDatabaseEngine.exe”, this file can be found on the installation CD in the folder “1 - Microsoft Access Database Engine”.

Give permission to install the program on your computer when Windows asks for it.

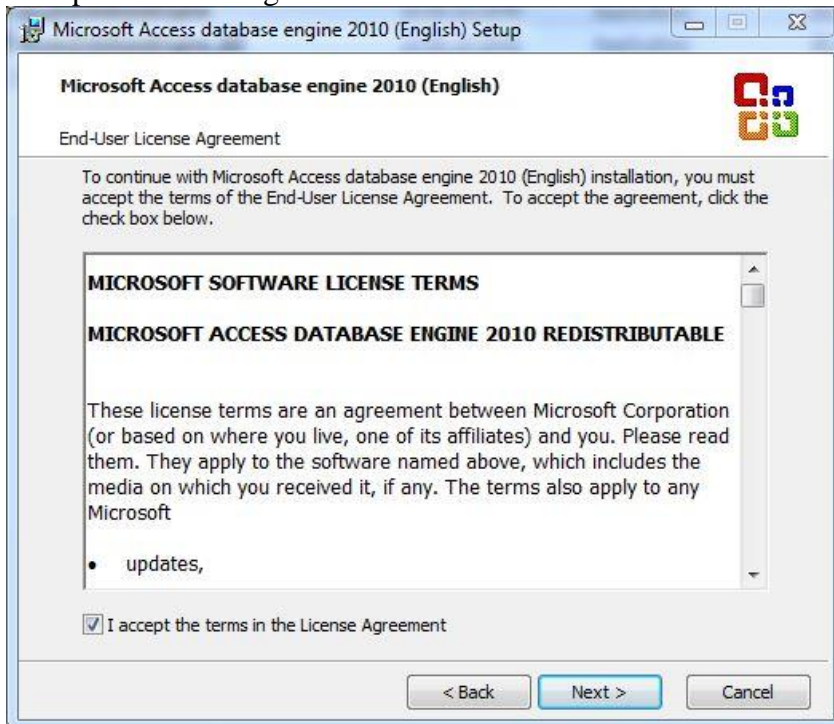
The following screen appears:



Click Next

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Accept the license agreement:

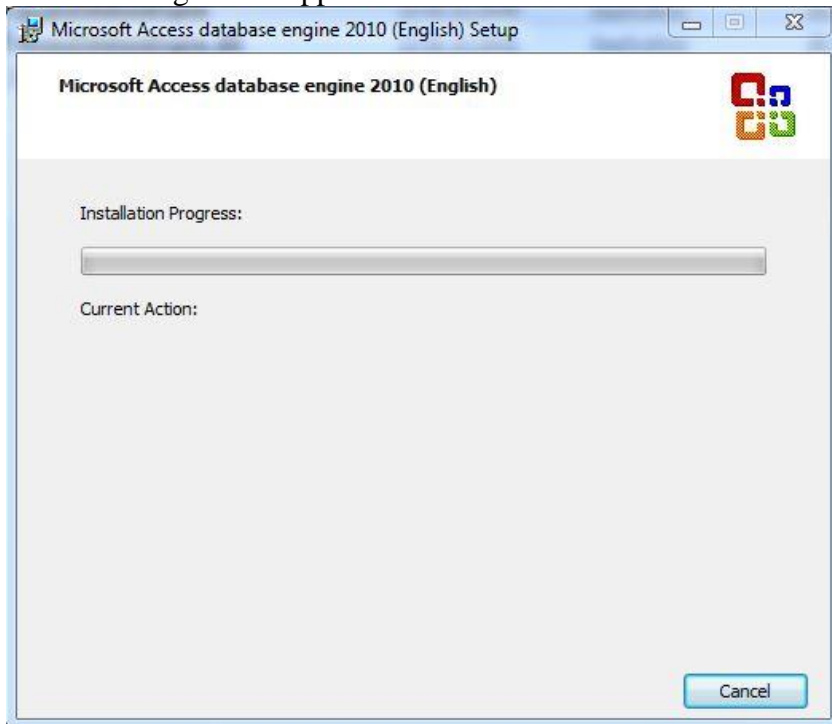


Put a check mark and click on “I accept...” and click “Next”
The following screen appears:



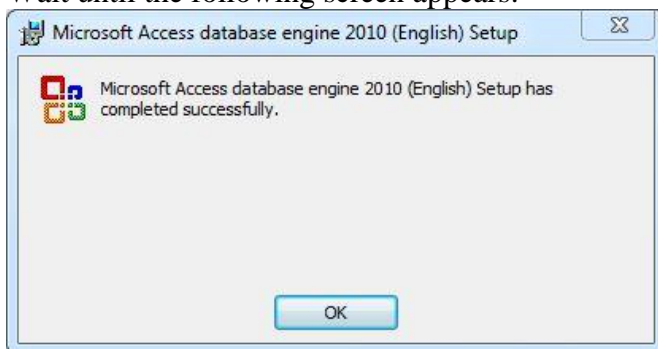
Click “Install”

The following screen appears:



The installation will be performed.

Wait until the following screen appears:



Click the OK button.

The installation of Microsoft Access Database Engine is now complete.

2. Installing the BFC Startup Manager

Run the Setup program file “BFC Startup Manager.msi” this file can be found on the installation CD in the folder “2 - BFC Startup Manager“.

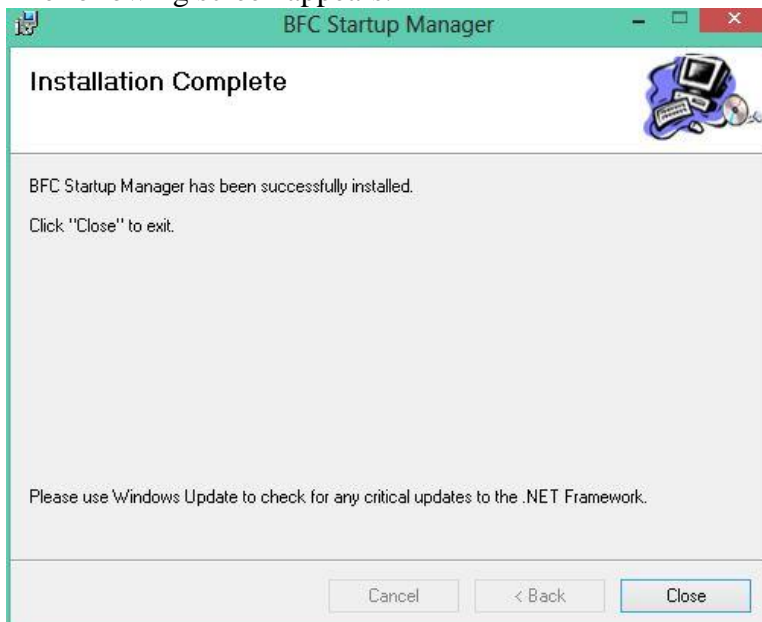
The following screen appears:



Click the “Next” button

Give permission to install the program on your computer when Windows asks for it.

The following screen appears:



The installation of the BFC Startup Manager is now ready.

3. Installing the BFC Software

Installing the BFC software is very simple.

Run the Setup program file “BFC.msi” this file can be found on the installation CD in the folder “3 - BFC Software”.

The BFC software will now be automatically installed and then started up right away. When the program starts correctly, you will be asked to authorize the program. Follow the authorization process on the screen.

If the authorization process is complete you will end up in the main screen of the BFC (see next page).

Automatic Update Feature

If your computer is connected to the Internet, the BFC software will check immediately after starting up if a newer version is available of the BFC software from the site of Don-Neo Technologies. If a newer version is available you will receive a notification with the option to download the update immediately and install or to postpone this until the next time you start the program. If you choose to download the new update, the program will close immediately afterwards. Run the software again and the new software version is installed immediately.

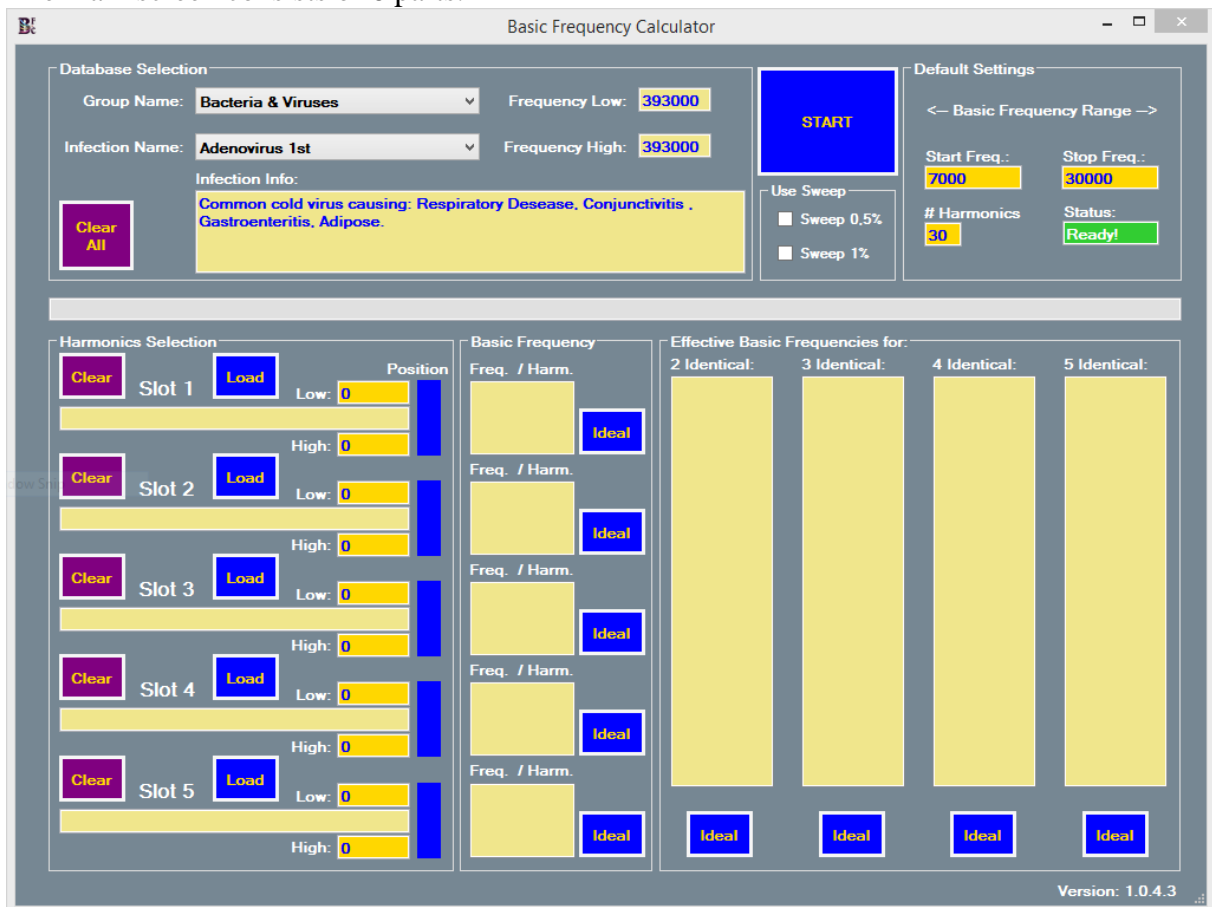
This way you are always up to date and you can immediately use the latest version of the software BFC. When the software is started you can always see, right at the bottom of the main screen, what software version you are currently working on.

De-installation of the software

To remove the software from your computer, go to the Windows Control Panel and select “Program and Features”. All programs and components are shown in the table. By clicking on the correct name, you can remove the selected program from your computer.

Main screen overview

The main screen consists of 6 parts.

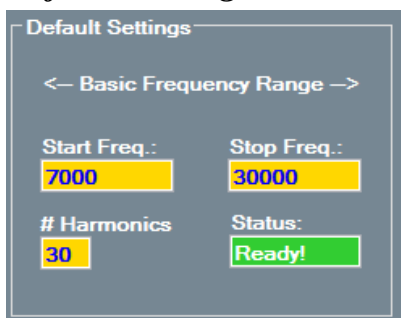


These parts are:

- Default Settings
- Database Selection
- Harmonics Selection
- Basic Frequency
- Use Sweep
- Effective Basic Frequency for:

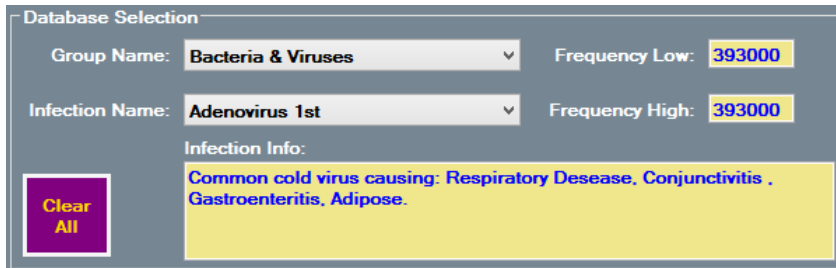
After this, the functions per screen item are explained in more detail.

Default Settings



The Default Settings indicate the default values that are used by the software for the calculations. The MTD basic frequency is between 7 KHz and 30 KHz. The basic frequency in the MTD generates 30 harmonics (the 2nd harmonic is a factor of 2 greater than the basic frequency and the 3rd harmonic is a factor of 3 greater than the basic frequency, etc.). The software is default set to be used with the MTD. If wanted these default values may be changed for other calculations.

Database Selection



Database Selection

Group Name: **Bacteria & Viruses** Frequency Low: **393000**

Infection Name: **Adenovirus 1st** Frequency High: **393000**

Infection Info:

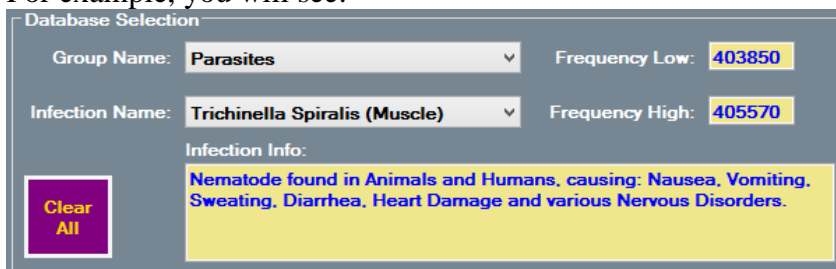
Common cold virus causing: Respiratory Disease, Conjunctivitis, Gastroenteritis, Adipose.

Clear All

The first step in using the BFC is to select the right pathogen for which you want to calculate the basic frequency. Work in the following manner:

1. Choose the infection group by clicking on the bar next to “Group Name” and select the group in showing table.
2. Choose the appropriate infection in the selected group by clicking on the selection bar next to “Infection Name” and select the correct pathogen name in the showing table.

For example, you will see:



Database Selection

Group Name: **Parasites** Frequency Low: **403850**

Infection Name: **Trichinella Spiralis (Muscle)** Frequency High: **405570**

Infection Info:

Nematode found in Animals and Humans, causing: Nausea, Vomiting, Sweating, Diarrhea, Heart Damage and various Nervous Disorders.

Clear All

Fields “Low Frequency” and “High Frequency” are now filled with the right frequencies derived from the database. This takes you to the screen item “Harmonics Selection”.

Harmonics Selection

The screenshot shows a window titled "Harmonics Selection" with a "Position" label at the top right. It contains five rows, each representing a slot. Each row has a "Clear" button (purple), a "Load" button (blue), and a "Low" input field (yellow) with the value "0". Below each "Low" field is a yellow bar representing a frequency range, and to the right of each bar is a blue vertical bar representing a position. The "High" input field (yellow) also has the value "0".

This screen section consists of 5 pathogen Slots: Slot 1 thru Slot 5. After you load a pathogen by clicking “Load” or clear it by clicking “Clear”. You can also manually enter the low or high frequencies yourself.

If you want to use the frequency, you just retrieved from the database, click on the “Load” button of the appropriate slot in which you want to set the data.

Repeat this action (retrieve from database and insert into slot) until you have entered all required information in each slot.

Example:

The screenshot shows the same "Harmonics Selection" window, but now the slots are populated with pathogen names and frequency ranges. The "Low" and "High" input fields are filled with numerical values. The "Clear" and "Load" buttons are still present for each slot.

Slot	Pathogen Name	Low	High
Slot 1	Adenovirus 2nd	371450	386900
Slot 2	Alpha Streptococcus	369750	385400
Slot 3	Klebsiella Pneumoniae 1st	398450	404650
Slot 4	Klebsiella Pneumoniae 2nd	416900	421900
Slot 5	Streptococcus Pneumoniae	366850	370200

Pushing the START button, the calculation of the basic frequencies is started. First the basic frequencies are calculated and then the corresponding basic frequencies are set in the respective tables.

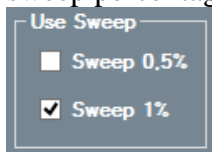
Basic Frequency

Below you see a list of all the basic frequencies per slot. If the MTD is set to the basic frequency, it generates harmonic frequencies that fall between the low and high frequency. These frequencies were already set before you started the calculation. You see the basic frequency and immediately after the dash the harmonic: 12382-30 means: the 30th harmonic of 12382 Hz (12.382 KHz), which is $30 \times 12382 = 371460$ Hz



Use Sweep

Depending on the dispersion of the treatment frequencies can choose to use the sweep function of the MTD. In this case you choose sweep percentage of 1%. The MTD also uses a sweep percentage of 1%.



The software will calculate the basic frequencies, taking into account the sweep percentage set. If the software already has made a calculation before, it will ask you whether you want it to recalculate with the modified sweep setting.



If you select “Yes” the tables are recalculated. If you choose “No” the sweep setting that you have changed previously is undone.

Effective Basic Frequencies for ...

These are the effective basic frequencies for 2, 3, 4, or 5 identical usable harmonics. The value that you see here are in fact the basic frequencies where multiple pathogens are treated by the generated harmonics simultaneously.

Effective Basic Frequencies for:

2 Identical:	3 Identical:	4 Identical:	5 Identical:
12325	12650	13897	16035
12326	12651	13898	16036
12327	12652	13899	16037
12328	12653	13900	16038
12329	12654	13901	16039
12330	12655	13902	16040
12331	12656	13903	16041
12332	12657	13904	16042
12333	12658	13905	16043
12334	12659	13906	16044
12335	12660	13907	16045
12336	12661	13908	16046
12337	12662	13909	16047
12338	12663	13910	16048
12339	12664	13911	16049
12340	12665	13912	16050
12382	12666	13913	16051
12383	12667	13914	16052
12384	12668	13915	16053
12385	12669	13916	16054
12386	12670	13917	16055
12387	12671	13918	16056
12388	12672	13919	16057

Below each column is an "Ideal" button.

For example if you click on value 16738 in Table 5 Identical you will see the following screen part:

Harmonics Selection

Slot 1: Adenovirus 2nd
Low: 371450, High: 386900

Slot 2: Alpha Streptococcus
Low: 369750, High: 385400

Slot 3: Klebsiella Pneumoniae 1st
Low: 398450, High: 404650

Slot 4: Klebsiella Pneumoniae 2nd
Low: 416900, High: 421900

Slot 5: Streptococcus Pneumoniae
Low: 366850, High: 370200

Basic Frequency

16735-23 (Ideal)

16736-23

16737-23

16738-23 (Ideal)

16735-24 (Ideal)

16736-24

16737-24

16738-24 (Ideal)

16735-25 (Ideal)

16736-25

16737-25

16738-25 (Ideal)

16735-22 (Ideal)

16736-22

16737-22

16738-22 (Ideal)

Notice that the value 16738 (16.738 KHz) appears in all five tables. The position of the harmonics within the bandwidth of the set frequency (between “Low” and “High”) is made evident by the orange stripe position on the blue area.

In Slot 1, the value of the 23rd harmonic of 16738 Hz is close to the “High Frequency” because $23 * 16738 = 384974$ Hz.

In Slot 2, the value of the 23rd harmonic of 16738 Hz is closer to the “High Frequency” because $23 * 16738 = 384974$ Hz.

In Slot 3, the value of the 24th harmonic of 16738 Hz is halfway between the “Low Frequency” and “High Frequency” because $24 * 16738 = 401712$ Hz.

In Slot 4, the value of the 25th harmonic of 16738 Hz is between the “Low Frequency” and “High Frequency” because $25 * 16738 = 418450$ Hz.

In Slot 5, the value of the 22nd harmonic of 16738 Hz is exactly between the “Low Frequency” and “High Frequency” because $22 * 16738 = 368236$ Hz.

If you had set a sweep of 1 % the screen part looks like this:

The frequency band created by the sweep (=frequency change) is now made visible with the widened orange indicators.

You can speed run through the tables by use of the arrow keys on your keyboard to determine the most favorable position manually. The position (the orange line) of the harmonic frequency is adjusted at each basic frequency change immediately. You can see the values change in the basic frequency tables. The table color turns to red if the corresponding table is not applicable for the chosen frequency.

The simplest way to search is to press the “Ideal” button near the relevant table the most favorable value is automatically shown. When you click the button “Ideal” below the table “Identical” you will first be asked which slots you want to select. When you choose a combination that does not exist then all basic frequency tables turn red to indicate that the selected combination is not valid. Select the example below for slot 1 and 2.

Select 2 Slots

Slot 1
 Slot 2
 Slot 3
 Slot 4
 Slot 5

The basic frequency that is found is 12586 (12.586 KHz).

Harmonics Selection		Basic Frequency	
Clear	Slot 1	Low: 371450	12586-30
	Adenovirus 2nd	High: 386900	12587-30
			12588-30
			12589-30
Clear	Slot 2	Low: 369750	12586-30
	Alpha Streptococcus	High: 385400	12587-30
			12588-30
			12589-30
Clear	Slot 3	Low: 398450	16738-24
	Klebsiella Pneumoniae 1st	High: 404650	16739-24
			16740-24
			16741-24
Clear	Slot 4	Low: 416900	16738-25
	Klebsiella Pneumoniae 2nd	High: 421900	16739-25
			16740-25
			16741-25
Clear	Slot 5	Low: 366850	16738-22
	Streptococcus Pneumoniae	High: 370200	16739-22
			16740-22
			16741-22

The two identical basic frequencies are found in the lists of Slot 1 and Slot 2. Slot 3, Slot 4 and Slot 5 do not have corresponding basic frequency of 12586 Hz, therefore these tables are colored red.

If you had set a sweep of 1 % the screen part looks like this:

Harmonics Selection		Basic Frequency	
Clear	Slot 1	Low: 371450	12953-29
	Adenovirus 2nd	High: 386900	12954-29
			12955-29
			12956-29
Clear	Slot 2	Low: 369750	12953-29
	Alpha Streptococcus	High: 385400	12954-29
			12955-29
			12956-29
Clear	Slot 3	Low: 398450	13149-30
	Klebsiella Pneumoniae 1st	High: 404650	13150-30
			13151-30
			13152-30
Clear	Slot 4	Low: 416900	13758-30
	Klebsiella Pneumoniae 2nd	High: 421900	13759-30
			13760-30
			13761-30
Clear	Slot 5	Low: 366850	12107-30
	Streptococcus Pneumoniae	High: 370200	12108-30
			12109-30
			12110-30

The frequency band created by the sweep (=frequency change) is now made visible with the widened orange indicators.