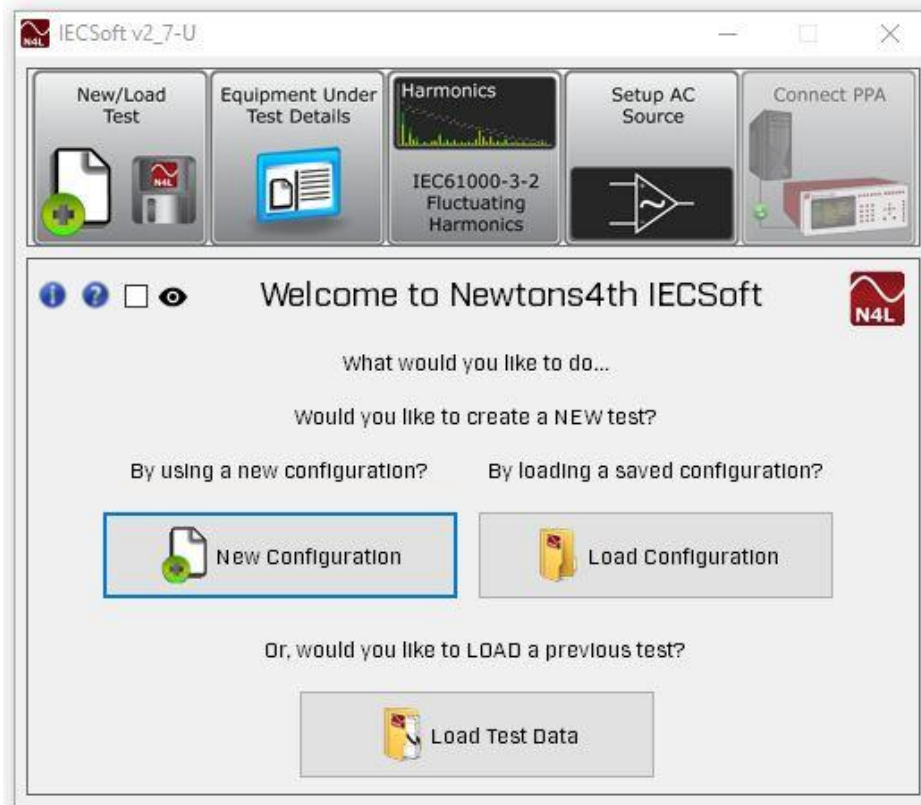


IECSoft Software v2.7 New Release

The latest release of our IECSoft Harmonics, Flicker and EMC test software is now available featuring the latest releases of BSEN, IEC and Japanese test Standards.

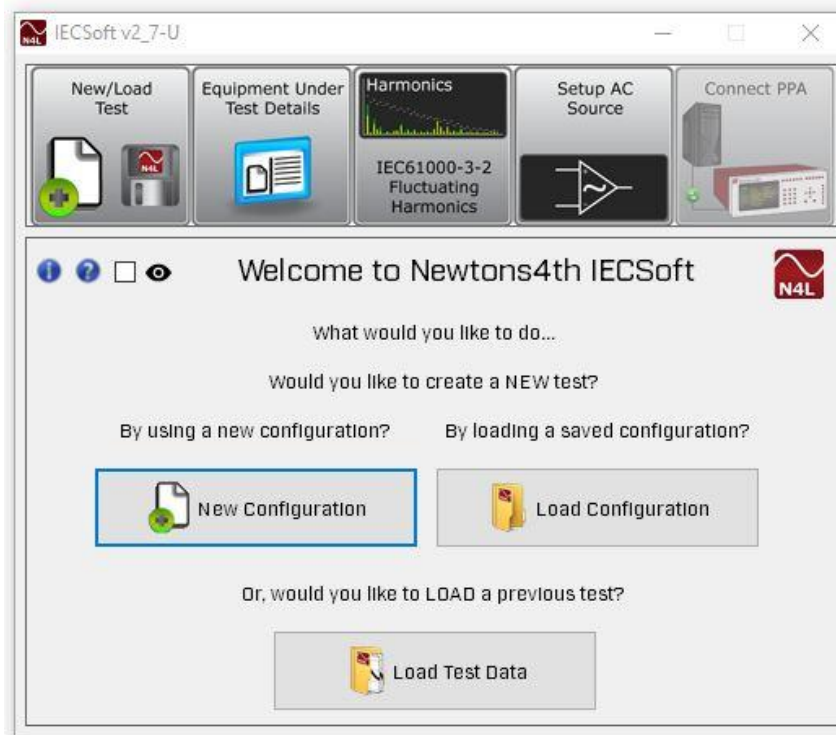


The software functionality is very similar to the previous version except that we have updated the method of selecting the test to be performed. Around 40 test standards are now included in the software so we have changed the selection method to simplify the selection for the user.

We have retained the withdrawn standards in the software to allow users to perform tests to the old and new versions of the standards if so desired.

This document explains the new method of selecting the test to be performed.

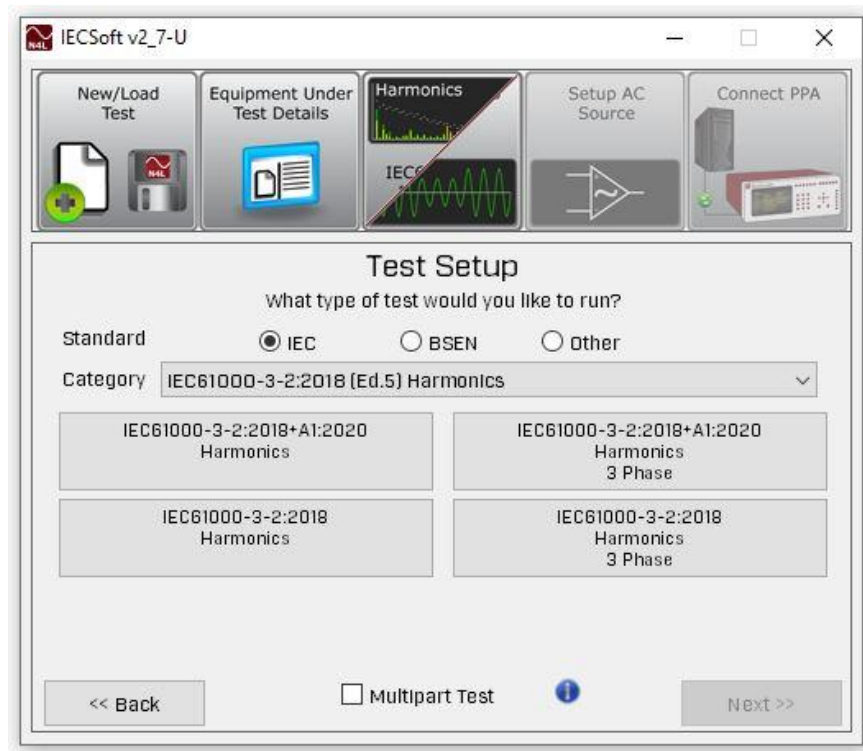
Click on "New Configuration" on the welcome screen:



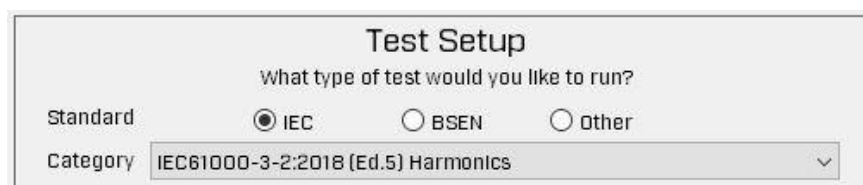
This will display the "Equipment Under Test" screen, enter the required details and then click on "Next"

The screenshot shows the 'Equipment Under Test' screen. At the top, there are five tabs: 'New/Load Test', 'Equipment Under Test Details', 'Harmonics', 'Setup AC Source', and 'Connect PPA'. The 'Equipment Under Test Details' tab is active. Below the tabs, the text 'Equipment Under Test' is displayed. The screen is divided into two columns: 'Equipment Details' and 'Test Details'. The 'Equipment Details' column contains the following fields: Brand: N/A, Model: N/A, Serial: N/A, Rated Voltage (V): N/A, Rated Current (A): N/A, Rated Freq. (Hz): N/A, Rated Power (W): N/A, and Impedance ID: N/A. The 'Test Details' column contains the following fields: Lab Name: N/A, Location: N/A, Operator: N/A, and Notes: chars left: 249. At the bottom left, there is a button labeled '<< Back'. At the bottom right, there is a button labeled 'Next >>'.

This will display the "Test Setup" screen which defaults to IEC Test mode:



Select the Required type of Standard, the options are IEC, BSEN and Other (Japanese) using the buttons below:



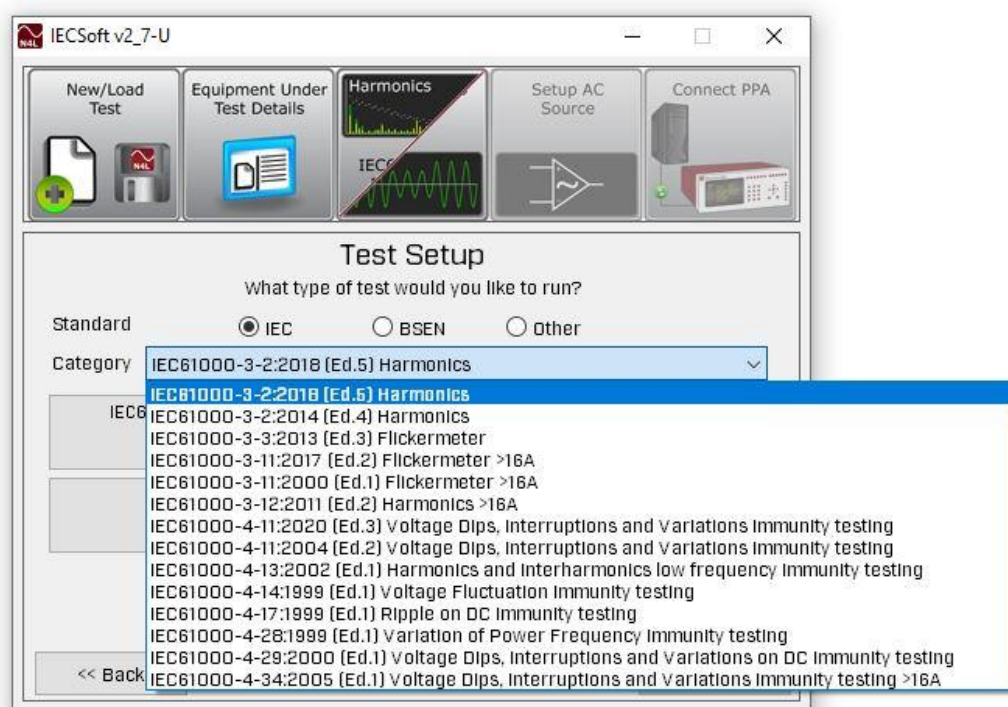
The Test setup screen for the selected type of test Selected is then displayed:

IEC Test Standards Set Up screen.

Click on Category to display a drop down menu listing IEC standards that can be tested using the software.

The Standards are listed in numerical order. Where more than one edition of a standard is listed, the most recent release is listed first.

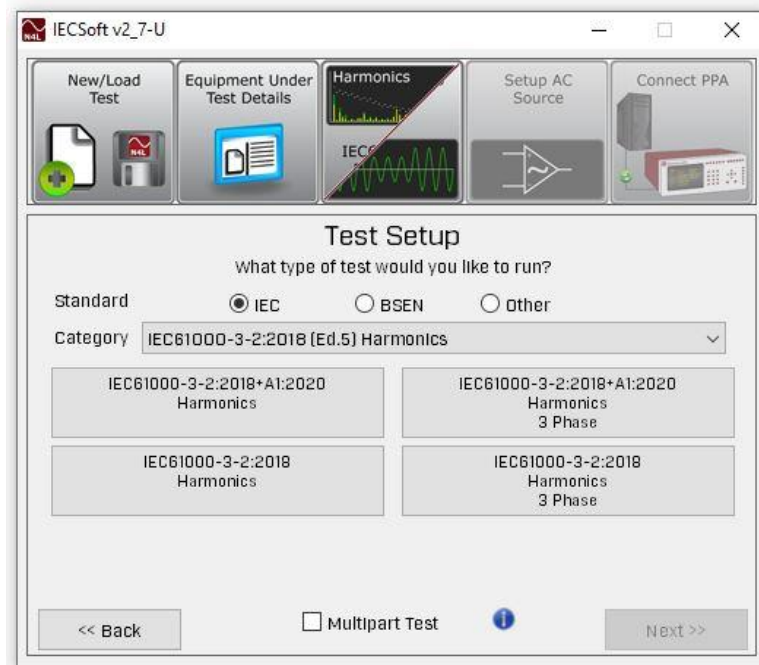
Note: some Standard Committees have issued amendments to their released standards. These are not displayed in the drop down menu options. They are displayed and can be selected at the next stage of the selection process.



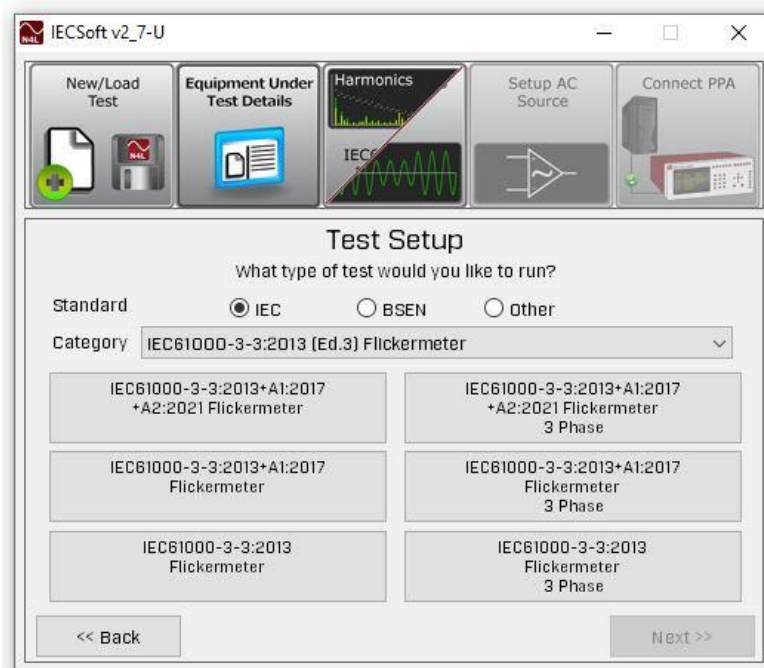
Click on required standard to move on to the next stage:

The test setup screen for the selected test standard is now displayed:

The example below is for the IEC61000-3-2:2018 Harmonic Standard. An amendment was issued in 2020. Both versions are included allowing the user to test to either the original release or the amended version:



Flicker Standard IEC61000-3-3:2013 features two amendments. Both are included in the software allowing the user to test to the original or either amendment.



Click on the required standard to move on to the next stage:

The setup procedure from this point is unchanged.

This example is for a harmonics test. Select the test class etc and click next to continue:

The screenshot shows the 'Test Setup' window for 'IECSoft v2_7-U'. The window has a title bar with the application name and standard window controls. Below the title bar is a navigation bar with five tabs: 'New/Load Test', 'Equipment Under Test Details', 'Harmonics', 'Setup AC Source', and 'Connect PPA'. The 'Harmonics' tab is selected, showing a waveform icon and the text 'IEC61000-3-2 Fluctuating Harmonics'. The main area is titled 'Test Setup' and 'Harmonics Test Settings Page 1'. It contains two sections: 'Class' and 'Measurement Settings'. The 'Class' section has radio buttons for 'Class A', 'Class A >600W', 'Class B', 'Class C', 'Class C - Dimmer', 'Class C - Waveform', 'Class C - THD', 'Class D', and 'Class D - Fridge'. 'Class A' is selected. The 'Measurement Settings' section has radio buttons for 'Measured Limits' and 'Specified Limits'. 'Measured Limits' is selected. Below these are input fields for 'Power (W):' (2300) and 'Current (A):' (10). A dropdown menu for 'Current Measurement:' is set to 'Internal'. There is a checkbox for 'Manually select a Peak Current range?' which is unchecked, with a note below it: 'A default current range of 100Apk will be selected'. At the bottom are three buttons: '<< Back', 'Select Mode', and 'Next >>'.

Test Standards for BSEN and Japanese Standard Committees:

Here are the BSEN test options:

The screenshot shows the 'Test Setup' window for 'IECSoft v2_7-U' with the 'Harmonics' tab selected. The main area is titled 'Test Setup' and 'What type of test would you like to run?'. It contains a 'Standard' section with radio buttons for 'IEC', 'BSEN', and 'Other'. 'BSEN' is selected. Below this is a 'Category' dropdown menu showing 'BS EN 61000-3-2:2019 (Ed.5) Harmonics'. A list of test options is displayed, including 'BS EN 61000-3-2:2019 (Ed.5) Harmonics', 'BS EN 61000-3-2:2014 (Ed.4) Harmonics', 'BS EN 61000-3-3:2013 (Ed.3) Flickermeter', 'BS EN 61000-3-11:2019 (Ed.2) Flickermeter >16A', 'BS EN 61000-3-11:2001 (Ed.1) Flickermeter >16A', 'BS EN 61000-3-12:2011 (Ed.2) Harmonics >16A', 'BS EN 61000-4-11:2020 (Ed.3) Voltage Dips, Interruptions and Variations Immunity testing', 'BS EN 61000-4-11:2004 (Ed.2) Voltage Dips, Interruptions and Variations Immunity testing', 'BS EN 61000-4-13:2002 (Ed.1) Harmonics and Interharmonics low frequency Immunity testing', 'BS EN 61000-4-14:1999 (Ed.1) Voltage Fluctuation Immunity testing', 'BS EN 61000-4-17:1999 (Ed.1) Ripple on DC Immunity testing', 'BS EN 61000-4-28:2000 (Ed.1) Variation of Power Frequency Immunity testing', 'BS EN 61000-4-29:2001 (Ed.1) Voltage Dips, Interruptions and Variations on DC Immunity testing', and 'BS EN 61000-4-34:2007 (Ed.1) Voltage Dips, Interruptions and Variations Immunity testing >16A'. At the bottom left is a '<< Back' button.

Here are the OTHER (Japanese) test options:

