

IECSoft Software v2.7.1 New Release

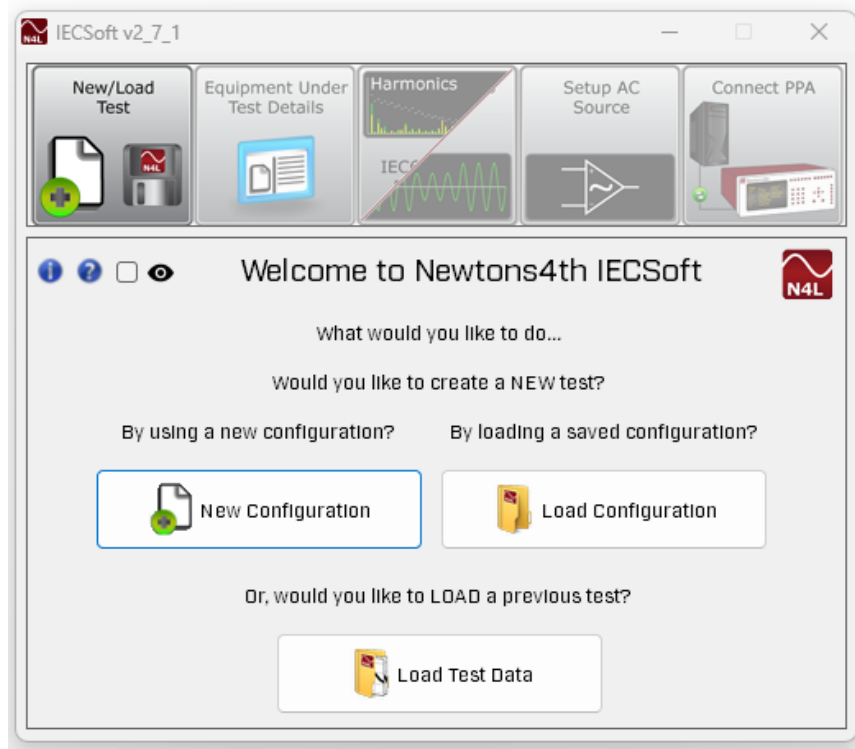
PDF Exports.

The zip folder contains two '.exe' files. The first is the IECSoft file and the second is a new '.exe' file called 'N4L_CVS_2_PDF'.

The new '.exe' file MUST be stored in the same location on the PC or Laptop, for example on the Desktop. This file is used by the IECSoft software to generate PDF documents.

New Release.

This 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.

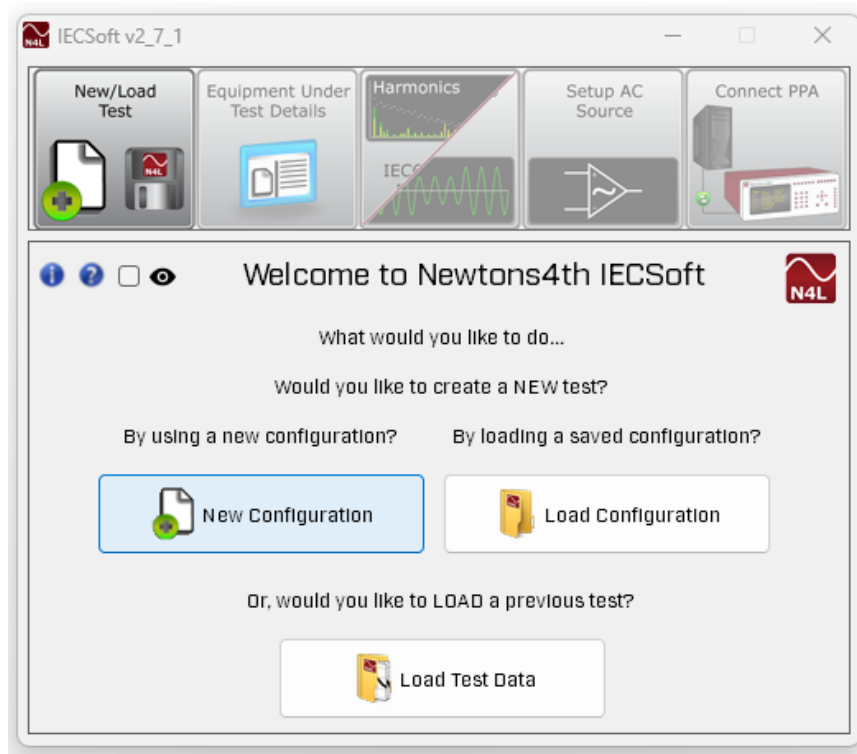


The software functionality is very similar to the previous version except that we have updated the method of selecting the test to be performed. Around 40 test standards are now included in the software, so we have changed the selection method to simplify the selection for the user.

We have retained the withdrawn standards in the software to allow users to perform tests to the old and new versions of the standards if so desired.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



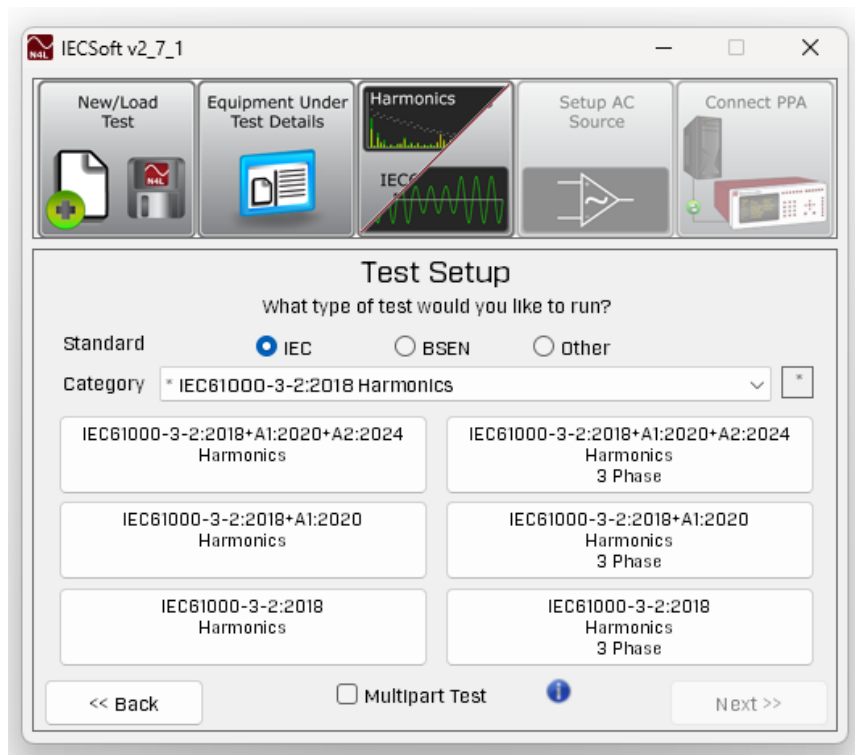
This will display the "Equipment Under Test" screen, enter the required details and then click on "Next"

The screenshot shows the IECSoft v2_7_1 application window with the "Equipment Under Test" tab selected. The title bar reads "IECSoft v2_7_1". The top navigation bar is the same as in the previous screenshot. The main area is titled "Equipment Under Test" and is divided into two sections: "Equipment Details" and "Test Details".

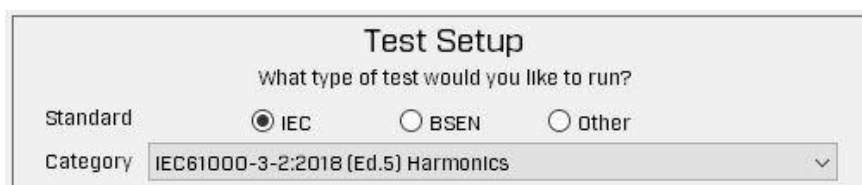
Equipment Details		Test Details	
Brand:	N/A	Lab Name:	N/A
Model:	N/A	Location:	N/A
Serial:	N/A	Operator:	N/A
Rated Voltage (V):	N/A	Notes:	chars left: 249
Rated Current (A):	N/A		
Rated Freq. (Hz):	N/A		
Rated Power (W):	N/A		
Impedance ID:	N/A		

At the bottom of the form, there are two buttons: "<< Back" on the left and "Next >>" on the right.

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:



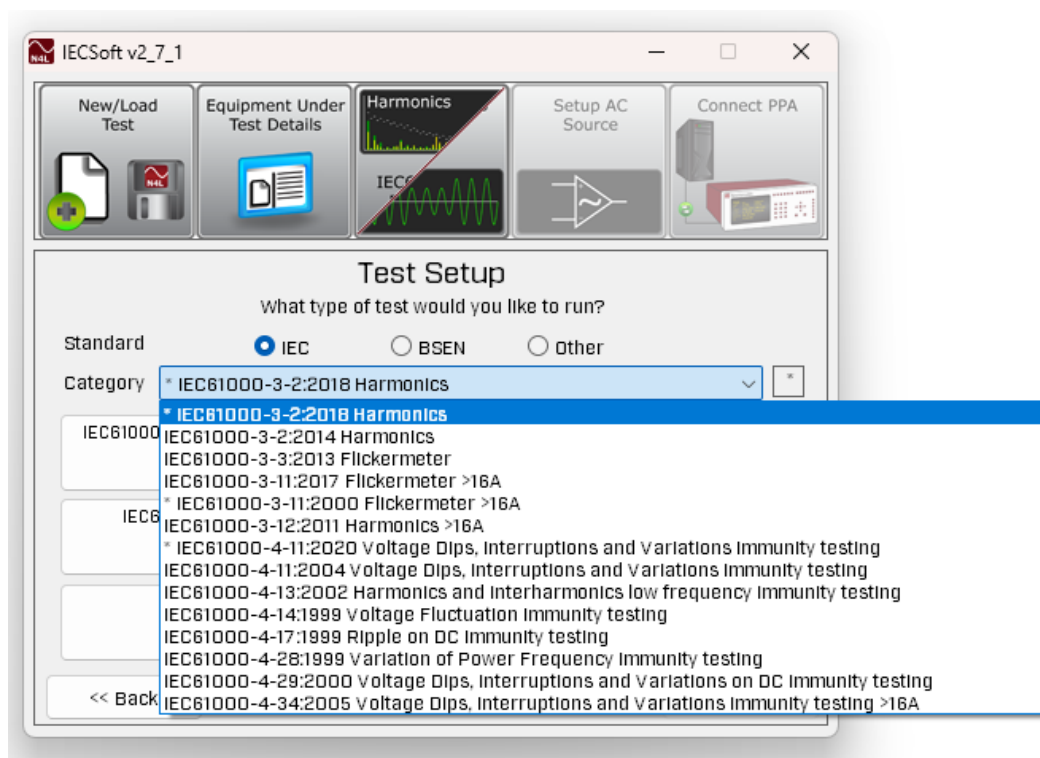
The Test setup screen for the selected type of test Selected is then displayed:

IEC Test Standards Set Up screen.

Click on Category to display a drop-down menu listing the 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.

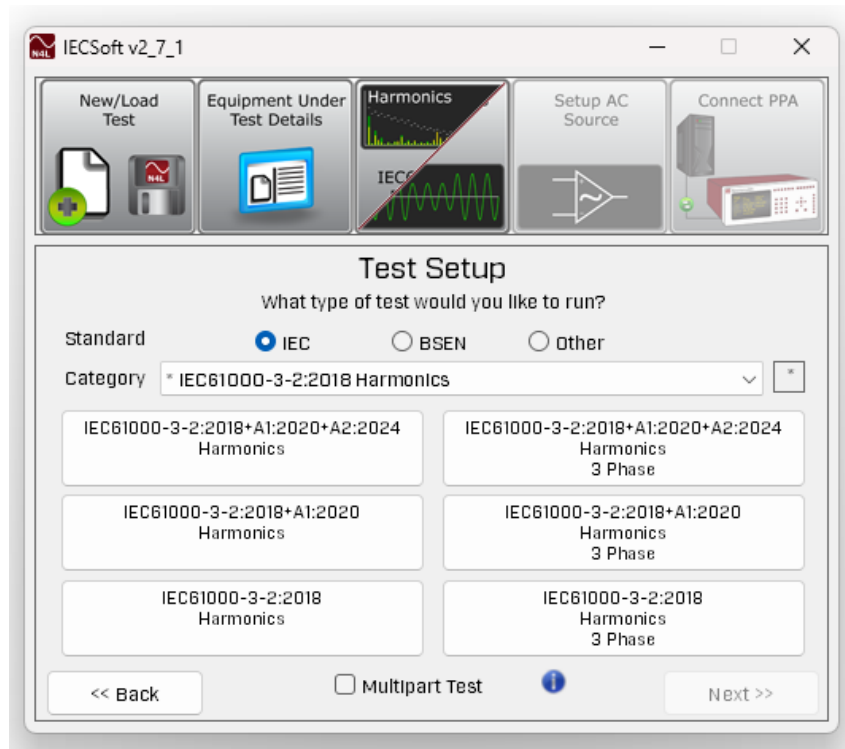
Note: some Standard Committees have issued amendments to their released standards. These are not displayed in the drop-down menu options. They are displayed and can be selected at the next stage of the selection process.



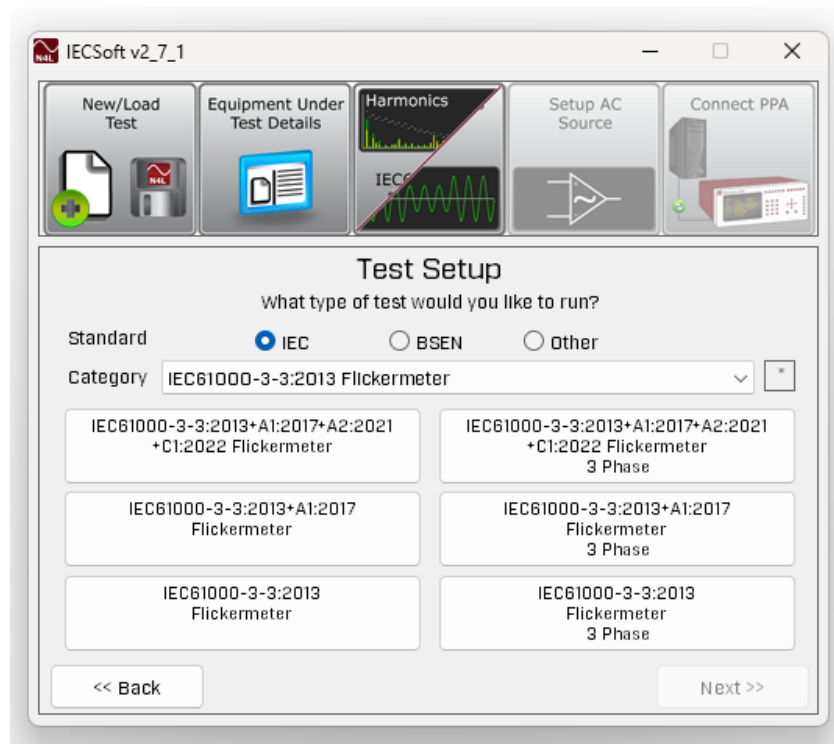
Click on required standard to move on to the next stage:

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

The example below is for the IEC61000-3-2:2018 Harmonic Standard. A second amendment was issued in 2024. 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 and a correction. These are included in the software allowing the user to test to any option.



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 'Harmonics Test Settings Page 1'. The window has a title bar 'IECSoft v2_7_1' and a menu bar with 'New/Load Test', 'Equipment Under Test Details', 'Harmonics', 'Setup AC Source', and 'Connect PPA'. The 'Harmonics' menu is active, showing a waveform icon and the text 'IEC61000-3-2 Fluctuating Harmonics'. The 'Test Setup' section has a 'Class' list on the left and 'Measurement Settings' on the right. The 'Class' list includes 'Class A' (selected), 'Class A >600W', 'Class B', 'Class C', 'Class C - Dimmer', 'Class C - Waveform', 'Class C - THD', 'Class D', and 'Class D - Fridge'. The 'Measurement Settings' section has 'Measured Limits' (selected) and 'Specified Limits'. It includes input fields for 'Power (W): 2300' and 'Current (A): 10', a 'Current Measurement' dropdown set to 'Internal', and a checkbox 'Manually select a Peak Current range?' with an information icon. A note states 'A default current range of 100Apk will be selected'. At the bottom are buttons for '<< 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 'What type of test would you like to run?'. The window has a title bar 'IECSoft v2_7_1' and a menu bar with 'New/Load Test', 'Equipment Under Test Details', 'Harmonics', 'Setup AC Source', and 'Connect PPA'. The 'Harmonics' menu is active, showing a waveform icon and the text 'IEC61000-3-2 Fluctuating Harmonics'. The 'Test Setup' section has a 'Standard' dropdown set to 'BSEN' and a 'Category' dropdown set to 'BS EN 61000-3-2:2019 Harmonics'. A list of test standards is displayed, including 'BS EN 61000-3-2:2019 Harmonics', 'BS EN 61000-3-2:2014 Harmonics', 'BS EN 61000-3-3:2013 Flickermeter', 'BS EN 61000-3-11:2019 Flickermeter >16A', 'BS EN 61000-3-11:2001 Flickermeter >16A', 'BS EN 61000-3-12:2011 Harmonics >16A', 'BS EN 61000-4-11:2020 Voltage Dips, Interruptions and Variations Immunity testing', 'BS EN 61000-4-11:2004 Voltage Dips, Interruptions and Variations Immunity testing', 'BS EN 61000-4-13:2002 Harmonics and Interharmonics low frequency Immunity testing', 'BS EN 61000-4-14:1999 Voltage Fluctuation Immunity testing', 'BS EN 61000-4-17:1999 Ripple on DC Immunity testing', 'BS EN 61000-4-28:2000 Variation of Power Frequency Immunity testing', 'BS EN 61000-4-29:2001 Voltage Dips, Interruptions and Variations on DC Immunity testing', and 'BS EN 61000-4-34:2007 Voltage Dips, Interruptions and Variations Immunity testing >16A'. At the bottom are buttons for '<< Back' and 'Next >>'.

Here are the OTHER (Japanese) test options:

