User Manual

1. Installation

1.1 System Requirements

For installation of the software, the computer must meet the following requirements:

- Pentium 1G CPU or faster
- At least 1G RAM
- At least 500 M hard-disk space remaining
- USB 2.0 / 3.0 port

The software is able to stably support the following operating systems:

- Microsoft Windows XP
- Microsoft Windows Vista
- Microsoft Windows 7
- Microsoft Windows 8

Please update Windows if your Windows doesn’t support the software.

1.2 Installation of Software

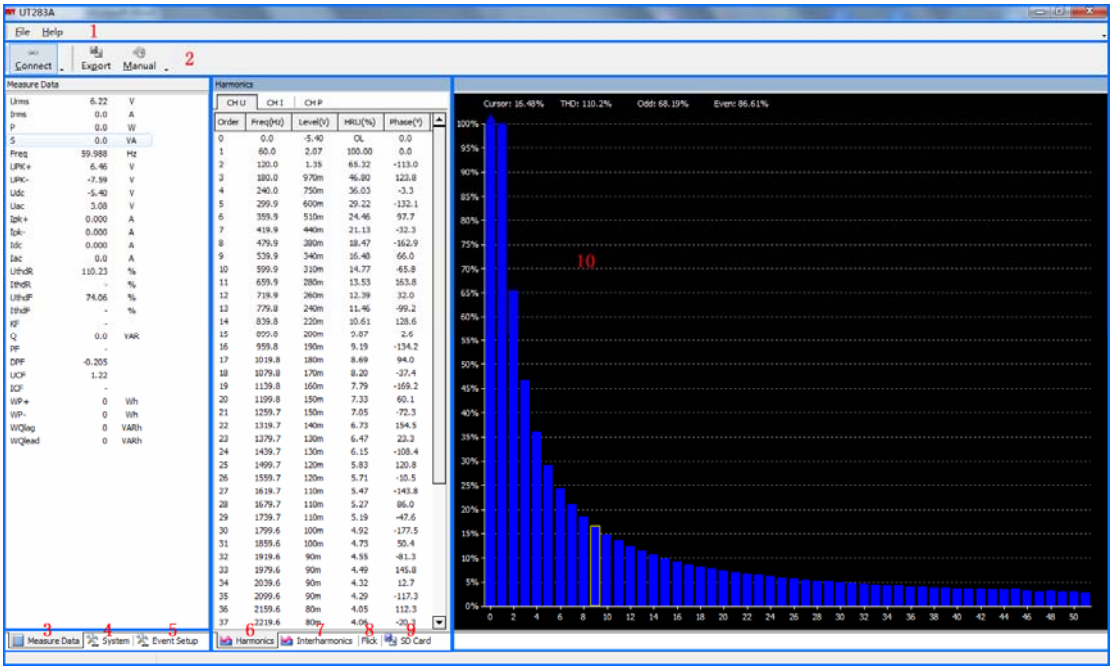
1. Insert CD-ROM into the computer

2. The installation interface will pop up (please double click Setup.exe in the CD-ROM directory if the installation is not started).

2. Software Start-up

Click Start ->All Programs->DMM, then start the software

The software's main interface is as follows:



Each module's functions are as follows:

1	Main Menu	Use all functions through the main menu
2	Toolbar	It allows you to quickly access all functions through the toolbar
3	List of Measurement Data	Display of the measurement data
4	System Settings	Set the system parameters (setting is disabled when the instrument is recording)
5	Event Settings	Set the event parameters (setting is disabled when the instrument is recording)
6	List of Harmonics Data	Display of inter-harmonics data
7	List of Inter-harmonics Data	Display of inter-harmonics data
8	List of Flicker Data	Display of flicker data
9	Reading of SD card data	Reading of the images, events and trend chart stored in SD card
10	Diagrams of Harmonics / Inter-harmonics Data	Display the harmonics / inter-harmonics data through diagrams

Table 1

3. Use of Software

3.1 Connection

Click

on the toolbar to connect PC and the instrument. When they are successfully connected, the software will synchronize data with the instrument and each function section will constantly update the data.

3.2 Use of Software

3.2.1 Main Menu

1	File -> Connect	Configure software
2	File -> Export	Export the data into xls. or csv files
3	File -> Exit	Exit the software
4	Help -> Manual	Open the User Manual

3.2.2 Toolbar

Please refer to the main menu for each function.

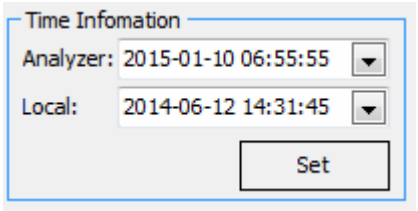
3.2.3 List of Measurement Data

Display of measurement data

3.2.4 System Settings

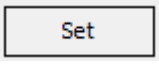
Set the system parameters (setting is disabled when the instrument is recording)

Description of time setting:



Analyzer: the time on the instrument

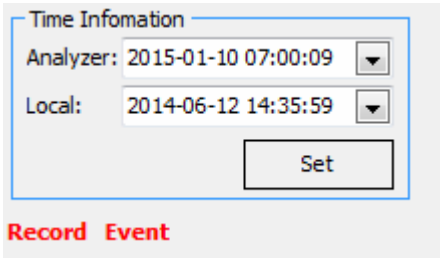
Local: PC time

Click 

to change the time on the instrument to PC time.

Indication of Recording:

The following words in red will be displayed when the instrument is recording:



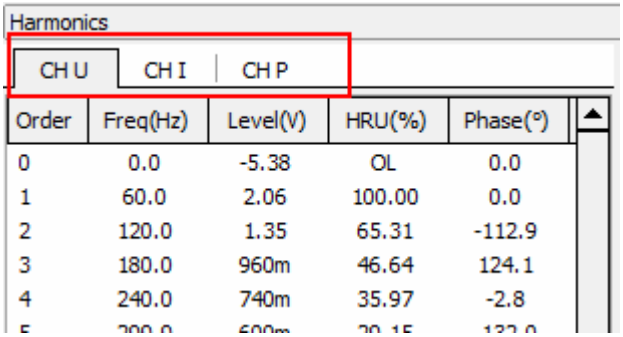
3.2.5 Event Settings

Set the event parameters (setting is disabled when the instrument is recording)

3.2.6 List of Harmonics Data

Display of harmonics data

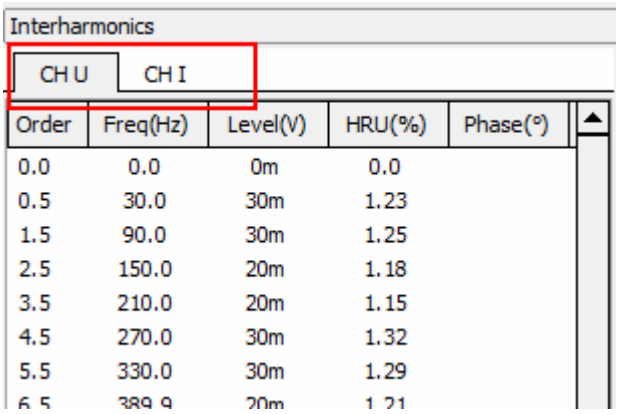
There are three channels: voltage, current and power. Click the tag to switch the channels:



3.2.7 List of Inter-harmonics Data

Display of inter-harmonics data

There are two channels: voltage and current. Click the tag to switch the channels:



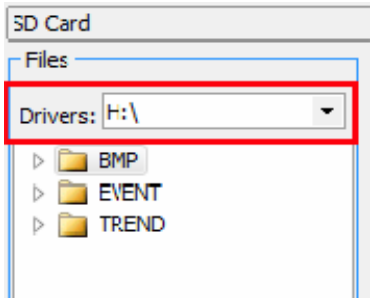
3.2.8 List of Flicker Data

Display of flicker data

3.2.9 Reading of SD card data

Reading of the images, events and trends stored in SD card

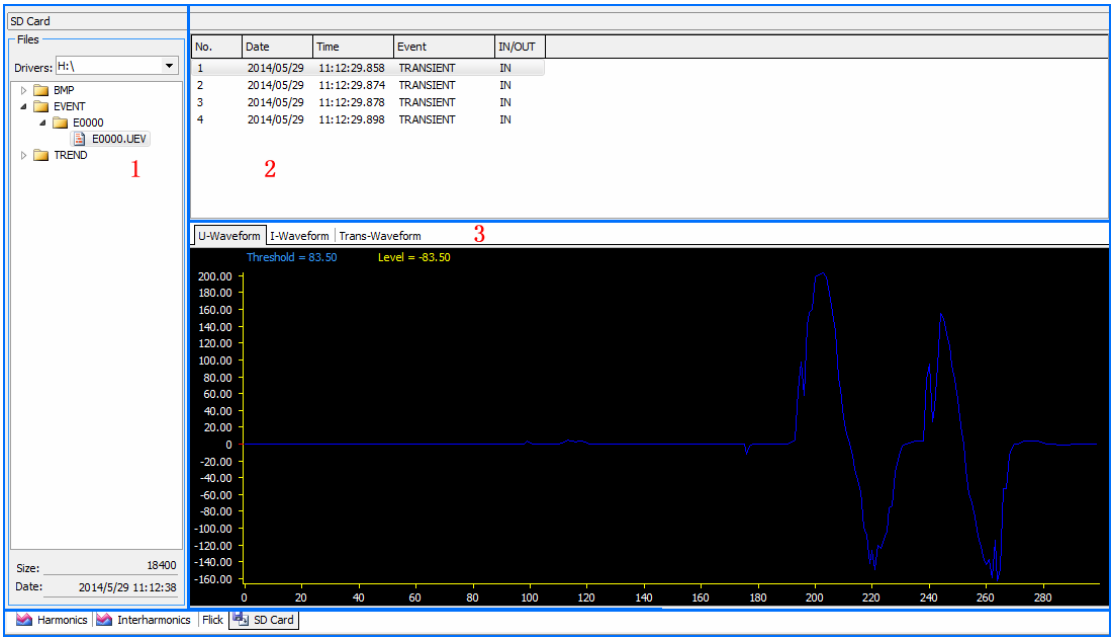
Before using the function, please take the SD card with stored data out from the instrument and then insert it into PC card reader and select the corresponding SD card drive in the software. The data can be divided into images, events and trend charts.



a. Images

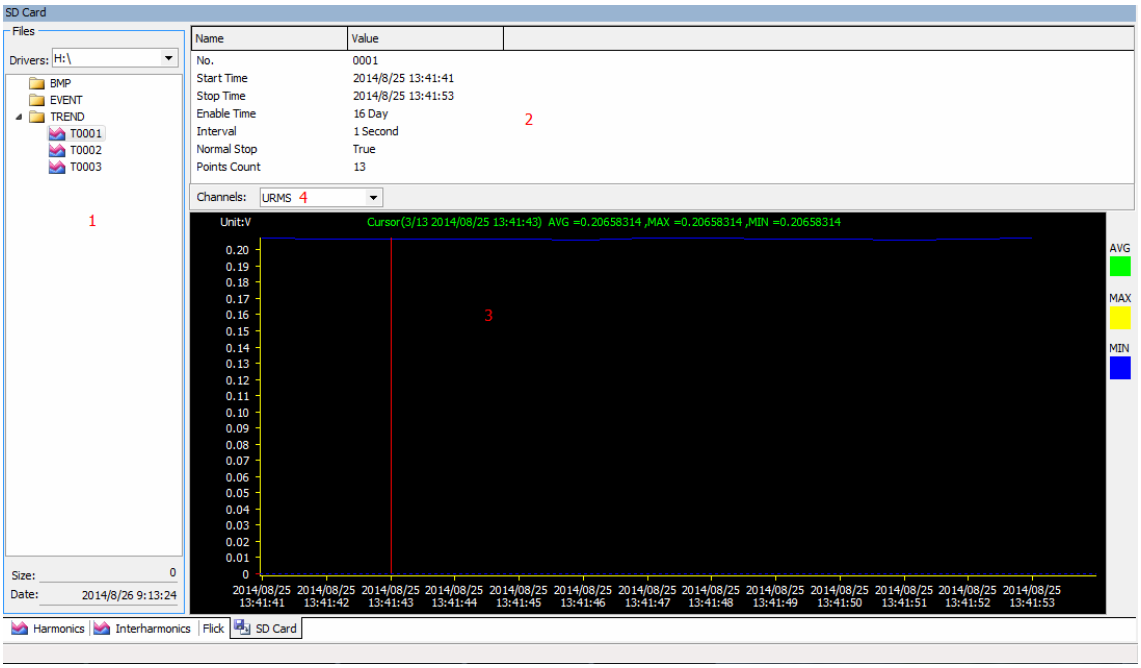
1	List	It allows you to select the image files
2	Image	Display the selected image

b. Events



1	List of Files	It allows you to select the event files
2	List of Events	Display the event's information
3	Waveform	Get to know the event's waveforms

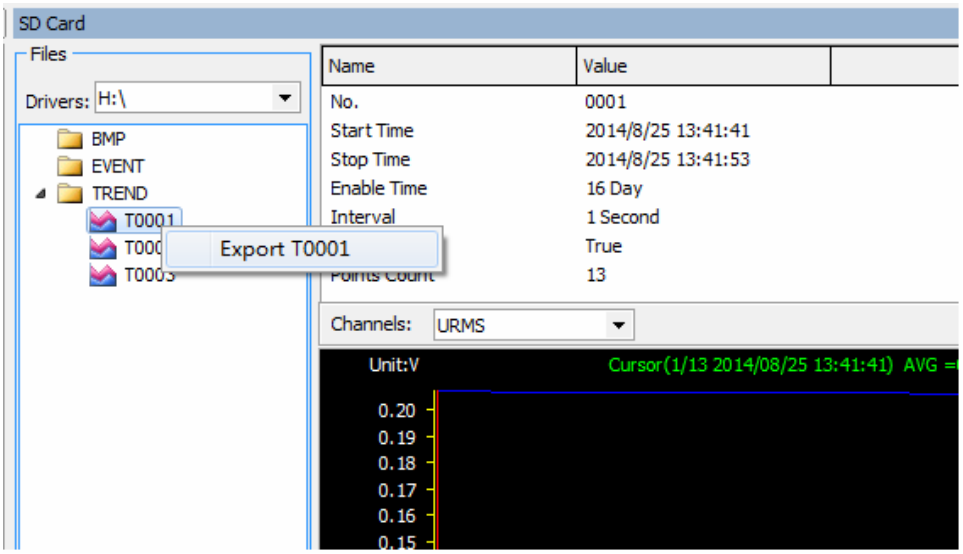
c. Trends



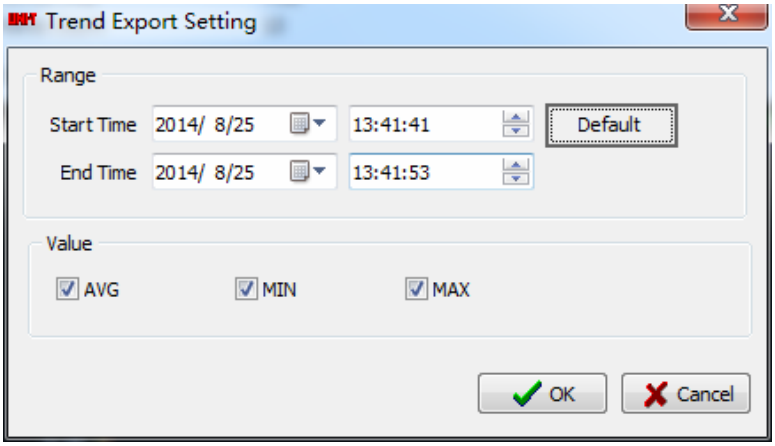
1	List of Files	It allows you to select each trend chart
2	List of Events	Display the information of trend
3	Trend Chart	Display the trend chart
4	List of Channels	Select the desired channels

d. Export the trend chart

Select the name of trend chart file desired in the list and right click to export the trend chart:



e. Change the export options accordingly:

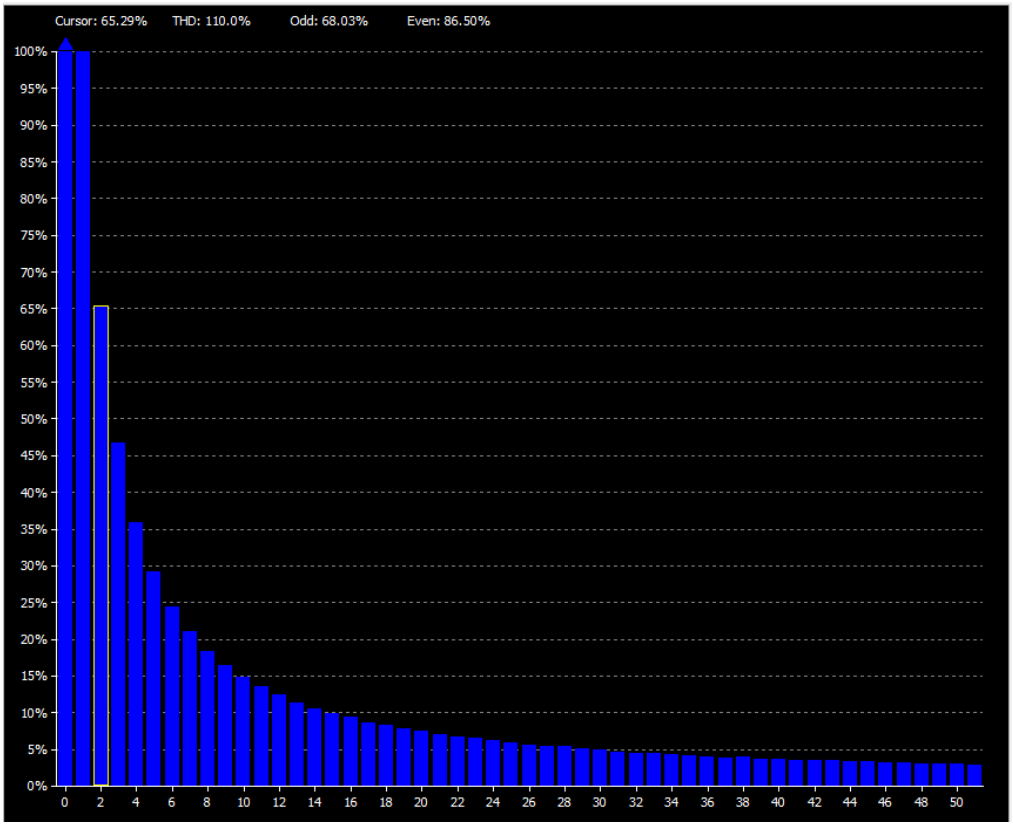


f. Select a folder to store the export file:

g. The trend charts will be exported to the specified folder according to the options

3.2.10 Diagrams of Harmonics / Inter-harmonics Data

Display the harmonics / inter-harmonics data through diagrams

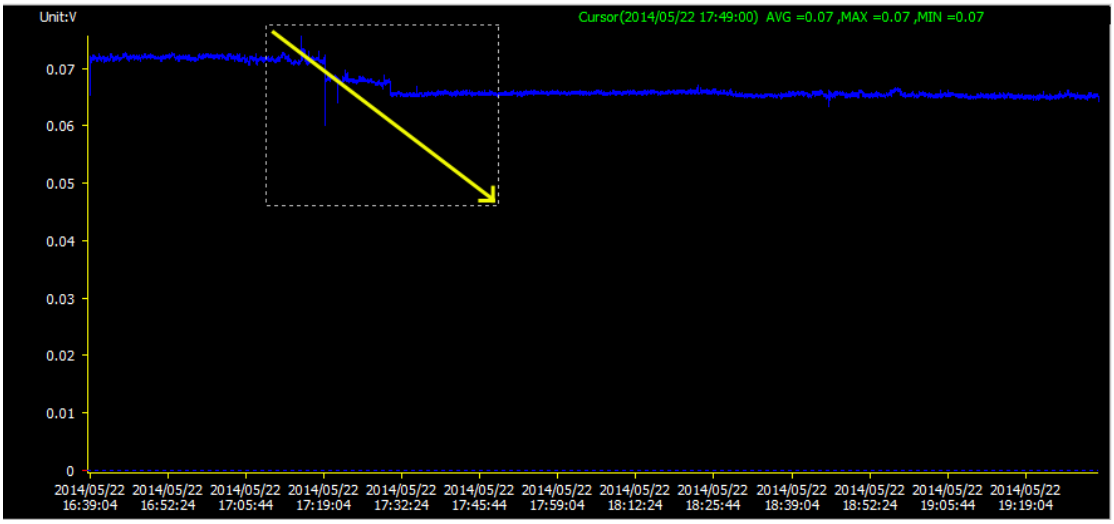
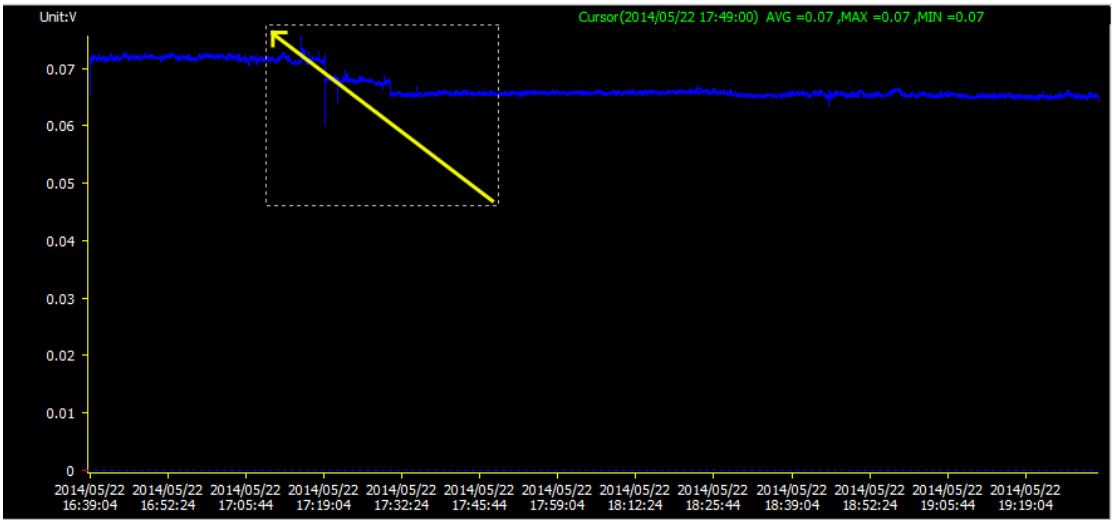


When the mouse is in the chart area, the column that the cursor stays at will be outlined yellow and the column’s value will be displayed.

Note:

Zooming of the event waveform and trend chart:

Zoom in: Press and hold the left mouse button and drag down from left to right and then release the left mouse button at the appropriate position:



Reset: Press and hold the left mouse button and drag up from right to left and then release the left mouse button at the appropriate position: