
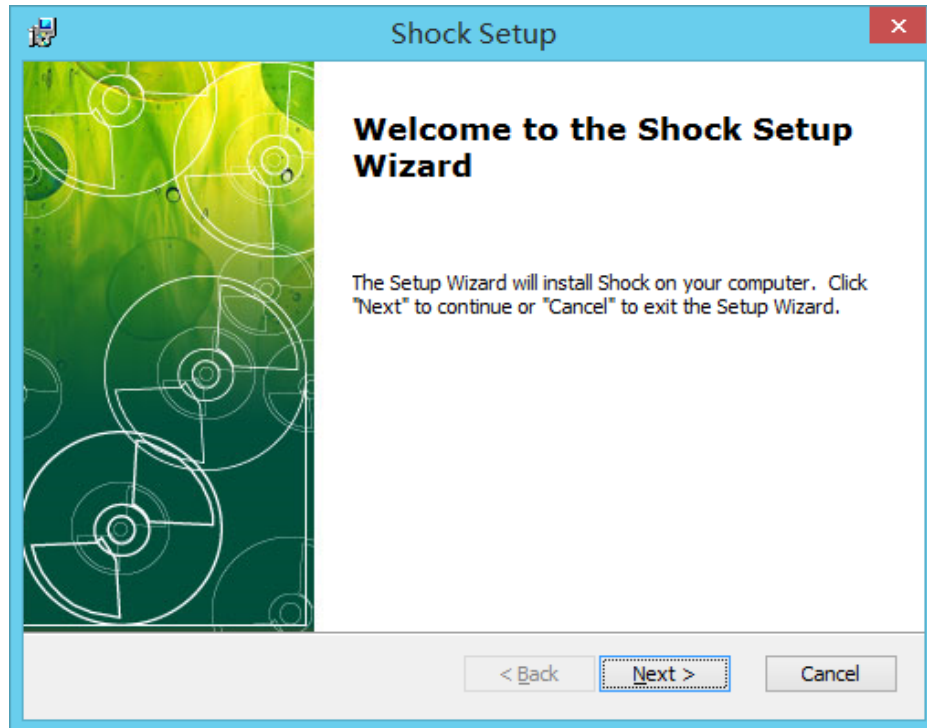


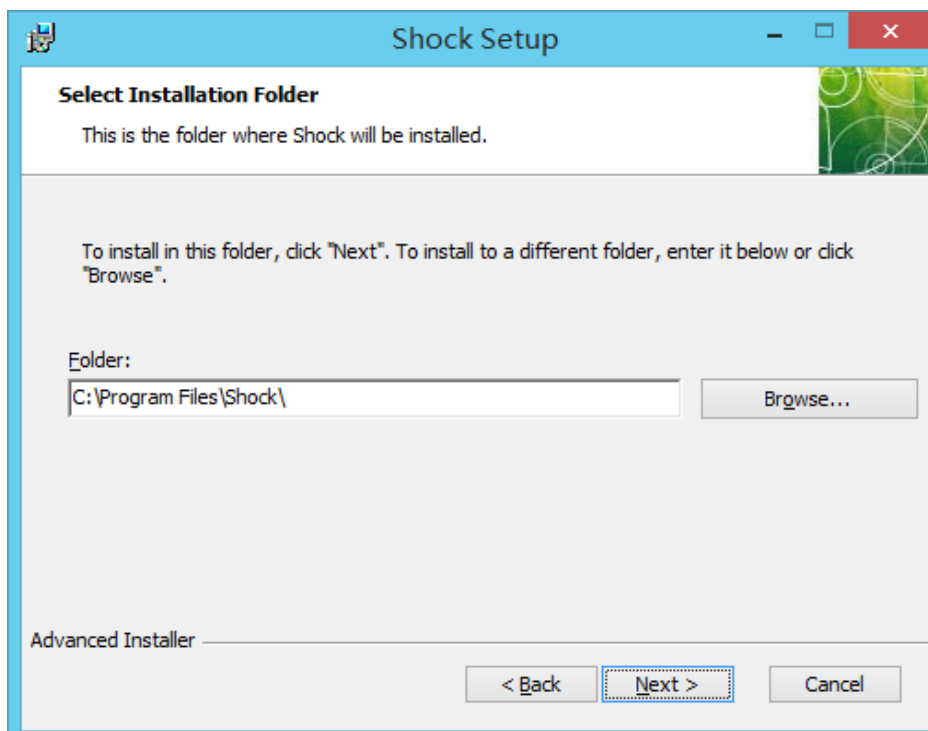
Shock Software V2.3 Instruction

Software installation

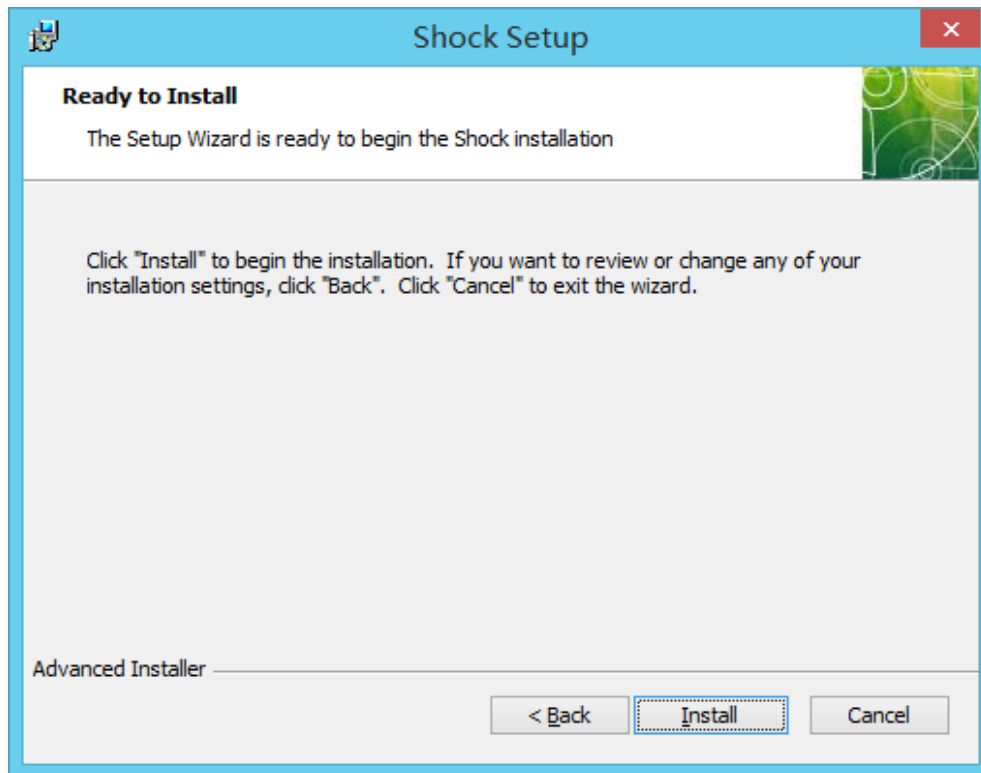
1. Open CD, Double click  Shock_V2.3.exe Shock 2.3.0.0 , shows below image:



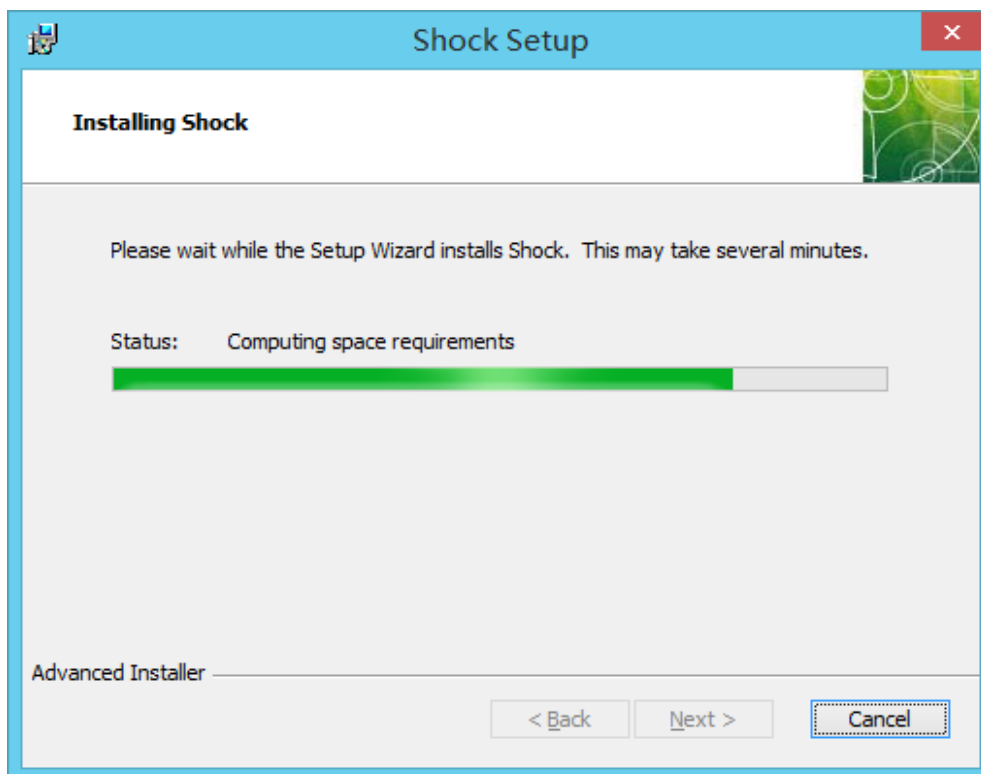
2. Click NEXT, enter into installation route image as below, if you want to change the installation route, please click the Change:

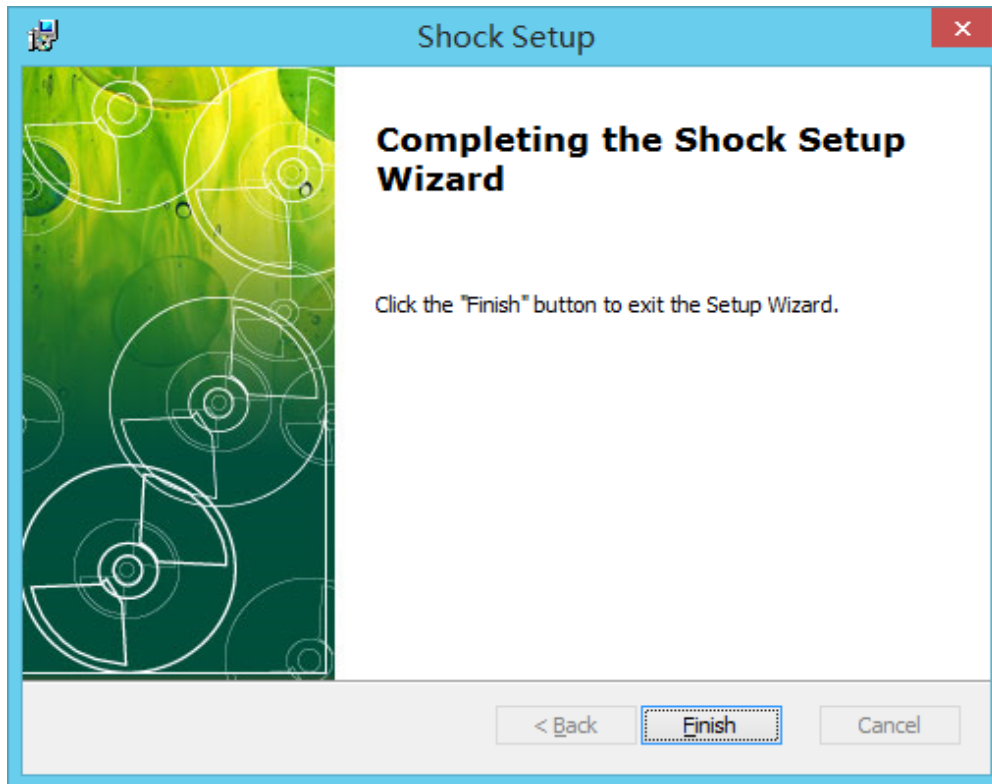


3. Click Next, enter into next step as below:



4. Click Install, wait till finish, click Finish.



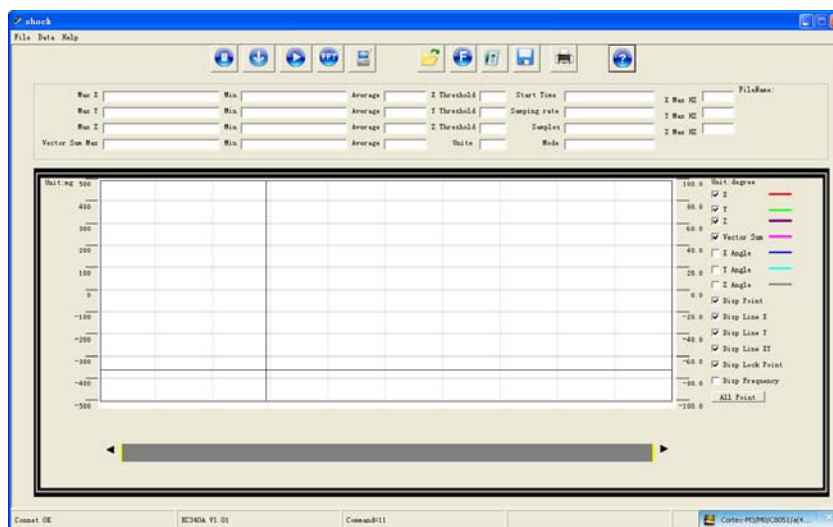


How to use software

Plug the device to the computer USB, if it is first time to insert, there will be indication that “ it is under installation of driver program” , later shows indication “ the driver program installs successfully” .



Double-click the desktop icon to open the software, the user interface will be displayed in the following figure, the model will be displayed on the left of the device software, indicating the device has successfully connected to your computer.



Menu

File

Download Data
Real Time Data

Download recorded data
Acquire real time data and save the file after stopping.

Real Time Data For Frequency Finish real time frequency data collection , save the last one set of data, the file name contains "Frequency.Hai"

System Parameter Set system parameter

Data

Acceleration	Display recorded data
Frequency	Display recorded frequency data
Data List	Main data list
Export Data	Main export data to an TXT file
Print	Print data curve, press to enter the preview screen


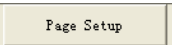

Setup

Data File Path	Set the default data file path
----------------	--------------------------------

Help

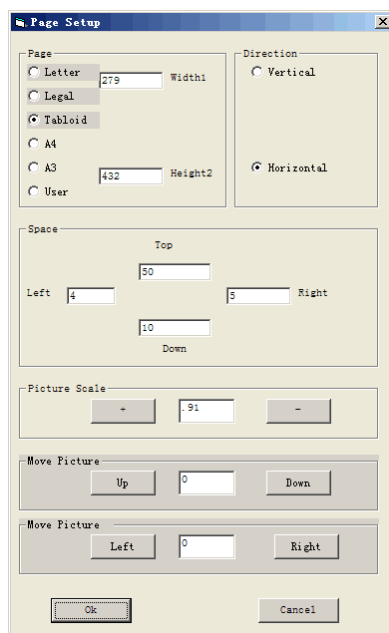
About	File Version
Help File	Display help files

Print reserved screen

	Print pictures, select a printer
	page setup
	Exit print screen

There are four blue line on the screen , which means that the space, close it with a MOUSE, when the MOUSE cursor shape changes a two-headed arrow, press the left button to move the space line

Page setup screen



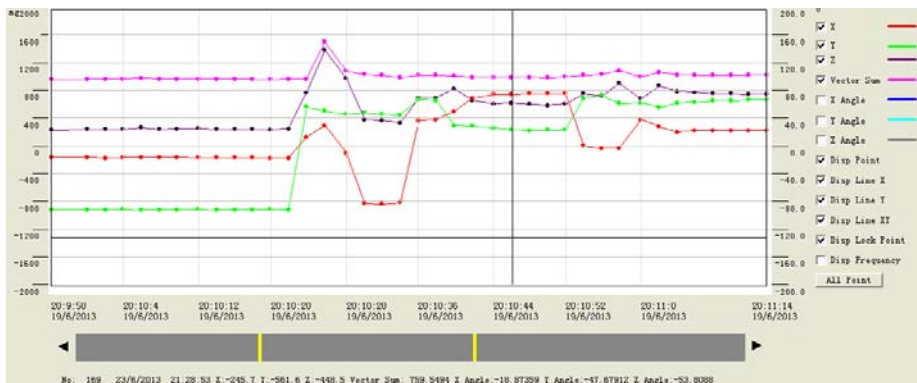
"page"	Select paper type
"Direction"	Select the paper print direction
"Space"	Setup space
"Picture Scale"	Adjust the print picture scale
"Move Picture"	The picture can move up and down, left and right

Toolbar button:



- Stop real time data and real time frequency data
- Download recorded data
- Real time data
- Real time frequency data
- Set system parameter
- Display recorded data
- Display recorded frequency data
- Data list
- Export data
- Print Preview
- Help File

Curve display screen



On the left is the coordinate data, unit of mg, It can show the maximum data and the calibration value, Adjust the coordinate's maximum value and the ratio automatically
There are two black arrow triangle can adjust the up and down location of data curve.

On the right is the angle coordinate scale ,unit of degree

Options:

X X tick show X-axis data curve

Y Y tick show Y-axis data curve

Z Z tick show X-axis data curve

Vector Sum Vector Sum tick shows the vector and curve for XYZ-axis data

X Angle tick shows the angle for X-axis acceleration and X-axis natural coordinates

Y Angle tick shows the angle for X-axis acceleration and Y-axis natural coordinates

Z Angle tick shows the angle for X-axis acceleration and Z-axis natural coordinates

Disp Point Disp Point tick shows some points on the curve

Disp Line X Disp Line X tick shows horizontal gridlines on the screen

Disp Line Y Disp Line Y tick shows vertical gridlines on the screen

Disp Line XY Disp Line XY tick shows cross line moves with the MOUSE cursor on the screen

Disp Lock Point Display disp lock point

Disp Frequency When the frequency curve is displayed, select the display frequency and data curve

Data shows the range of selection

On the main screen, press and drag the MOUSE left key ,then show dotted line, and select the range of data.

Below is the tool bar about range of data selection



Click the left arrow to let displayed data stating values close to the file header , know range is 1,

Right arrow let displayed data show end of range, close to the end of the file until the file data is equal to the maximum value

When MOUSE cursor close to the middle of the two yellow line, and the cursor is changed, press the MOUSE button can move data display range.

Double click the MOUSE button to change the range of displayed data

Press the MOUSE left button and drag to change the range of displayed data

There is a button in the options below: "ALL POINT" show all data.

Below is the relevant data which is displayed data range currently

Max X	2882	23/6/2013 21:28:43	Min	-1751	23/6/2013 21:26:15	Average	626	X Threshold	15	Start Time	23/6/13 21:26:5	X Max HZ		D:\02. Hai
Max Y	1267	23/6/2013 21:27:10	Min	-1528	23/6/2013 21:28:58	Average	-6	Y Threshold	14	Sampling rate	1 Second	Y Max HZ		
Max Z	2382	23/6/2013 21:28:32	Min	-1961	23/6/2013 21:28:27	Average	4	Z Threshold	13	Samples	221	Z Max HZ		
Vector Sum Max	3524	23/6/2013 21:28:32	Min	307	23/6/2013 21:29:11	Average	1310	Unit	mg	Mode	Motion Detection			

Max X	2882	23/6/2013 21:28:43	Min	-1751	23/6/2013 21:26:15	Average	626	X Threshold	15
-------	------	--------------------	-----	-------	--------------------	---------	-----	-------------	----

The X axis of max, min, avg, the critical value and the occurrence time

Vector Sum Max	3524	23/6/2013 21:28:32	Min	307	23/6/2013 21:29:11	Average	1310
----------------	------	--------------------	-----	-----	--------------------	---------	------

Max,min,avg and occurrence time for vectorial sum of three axis

Unit	mg
------	----

The acceleration of gravity value unite

Start Time

The start time of the instrumental record.

Sampling rate

Sampling rate of instument.

Samples

The total points samples

Mode	Motion Detection
------	------------------

Samling mode

X Max HZ	
Y Max HZ	
Z Max HZ	

Each axis of the maximum frequency when spectrum analysis

D:\02. Hai

Open the file name

Parameters setting Instructions:

Setup

Interval Time
 ☒ Millisecond ☐ Second ☐ Minute ☐ Hour

Led Twinkle Cycle
 Unite:Second

Record Mode
☒ Normal ☐ Critical

Critical Value
 X Axial Y Axial Z Axial

Work Mode
☐ Manual Operation ☒ Auto ☐ Time

Current Time
 Year Month Day Hour Minute Second

Start Record Time
 Year Month Day Hour Minute Second

Limit Time(Unite:Minute)

OK Cancel

Interval Time: Set record time interval, time interval unit is ms, sec, min, hr. The minimum time is 50ms. The maximum time is 24 hrs.

LED Twinkle Cycle: LED twinkling cycle when record, the unit is sec. The maximum time is 30s. The minimum is 1s. "0" means the LED will not light forever.

Record Mode: Record mode, there are normal mode and motion measurement mode.

Critical Value: It's critical starting value in motion measurement mode. The measured value will be effective when reaches to this critical value. Otherwise, give up this value.

Work Mode: Hand operation, auto operation and fixed cycle operation.

Hand operation means that when off-line, the recording should be made by pressing the button manually

Auto operation means to make record immediately while on line.

Fixed cycle operation means the recording will make when it's the due time. The length of record time is set by Limit Time.

Current Time: set current computer time for the instrument

Start Record Time: It is the starting time of fixed cycle operation. This time must be after the current time.

Limit Time: Set recorded time of fixed cycle operation. The unit is min, the maximum time 273mins. The minimum time is 1min.