



孕龍科技股份有限公司
Zeroplus Technology Co., Ltd.

SPECIFICATION

MODEL: B10011-LAP-WWV/WWVH/WWVB-M

PART NO: _____

VERSION: V1.00

Approver		Check	Design
GM	PM		

Customer Confirm

*Please fax the file to Zeroplus Technology after signing.

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1 Software Download

Please download the software as the following steps:

Remark: We won't have additional notice for you, when there is any modification of the module specification. If there is some unconformity caused by the module version upgrade, users should take the module software as the standard.

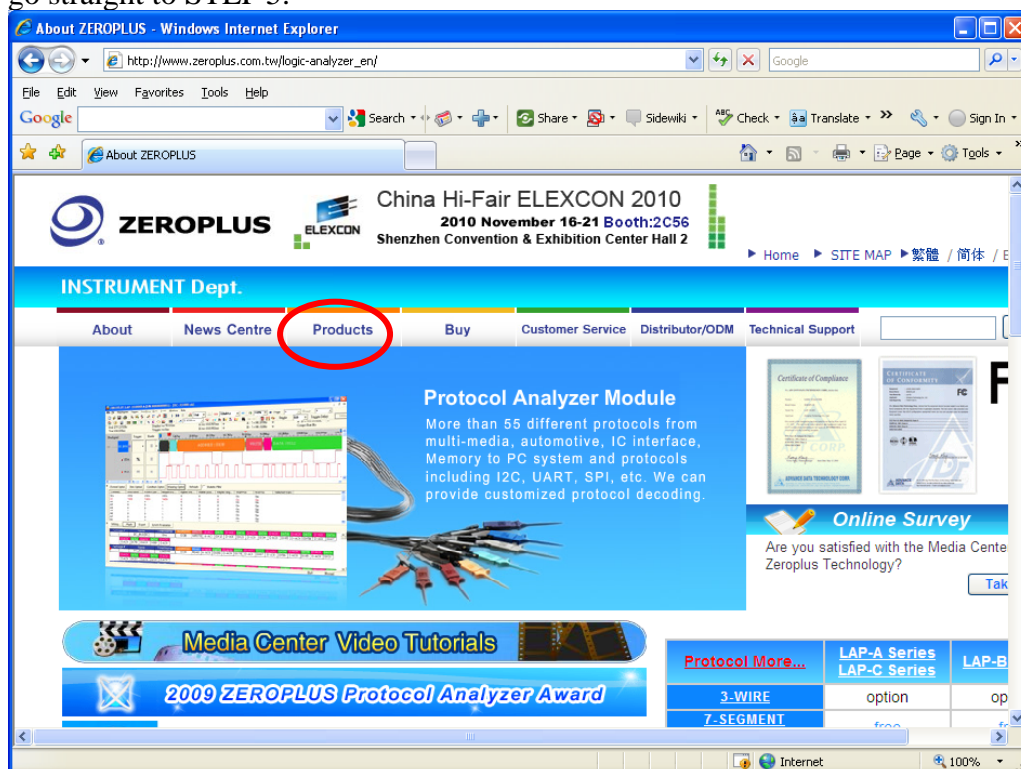
STEP 1. Visit the website of ZeroPlus: <http://www.zeroplus.com.tw>.

STEP 2. Click **English** in the Instrument Division part on the Homepage.

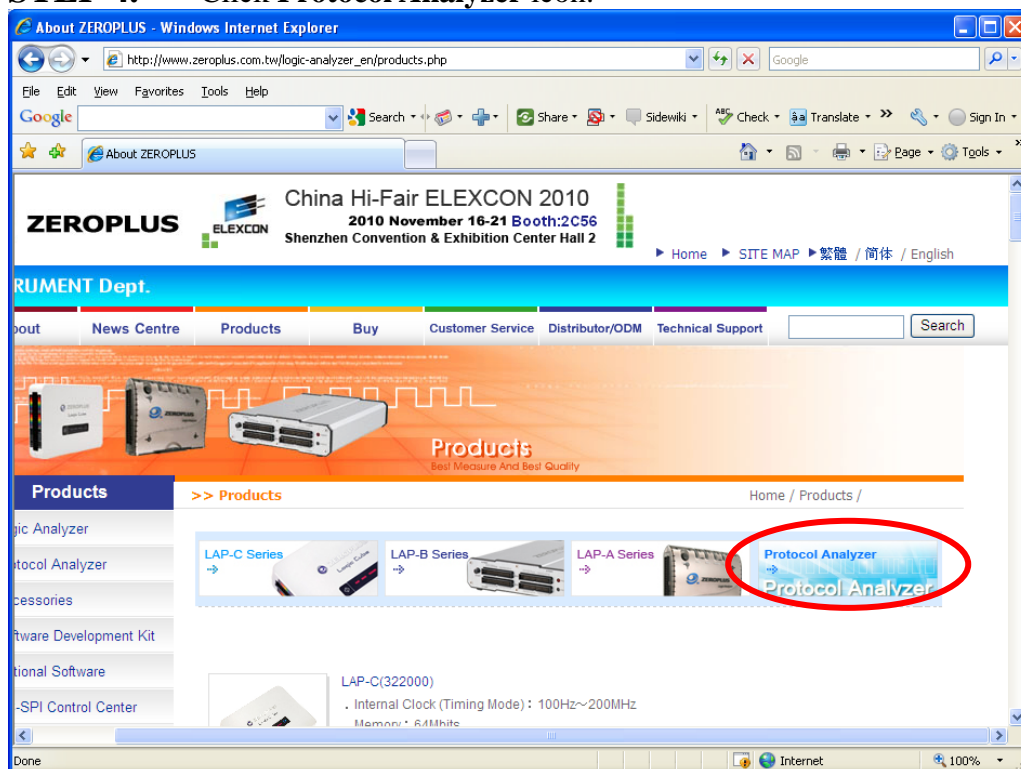




STEP 3. Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.

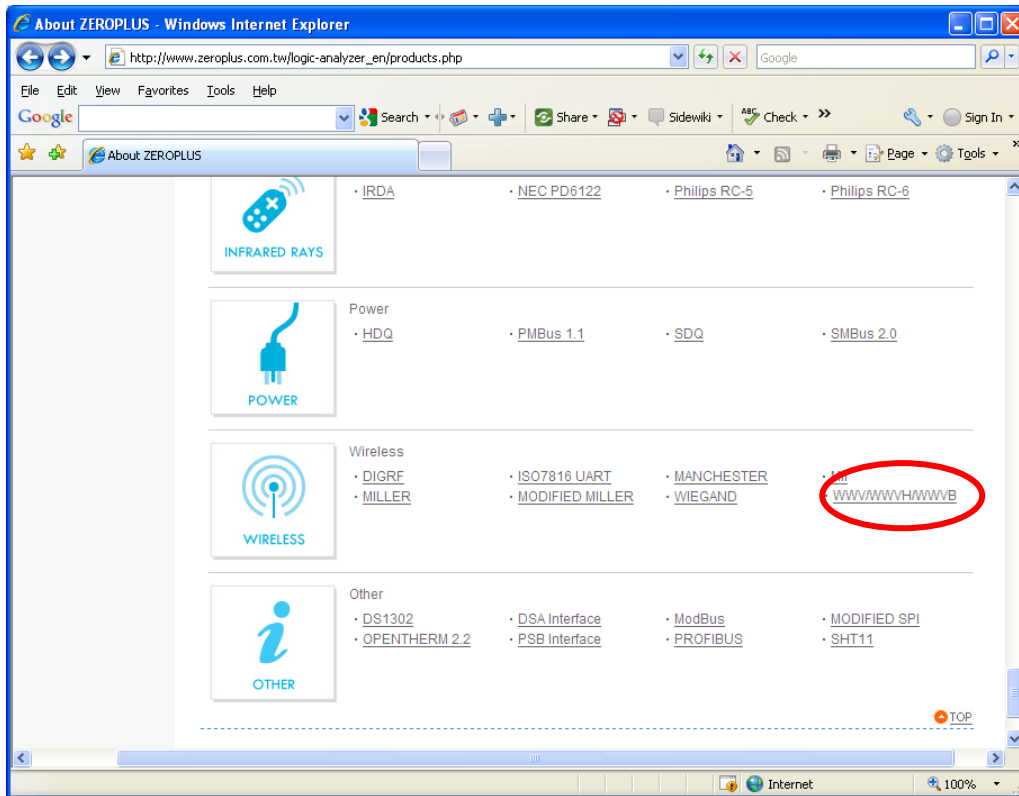


STEP 4. Click **Protocol Analyzer** icon.

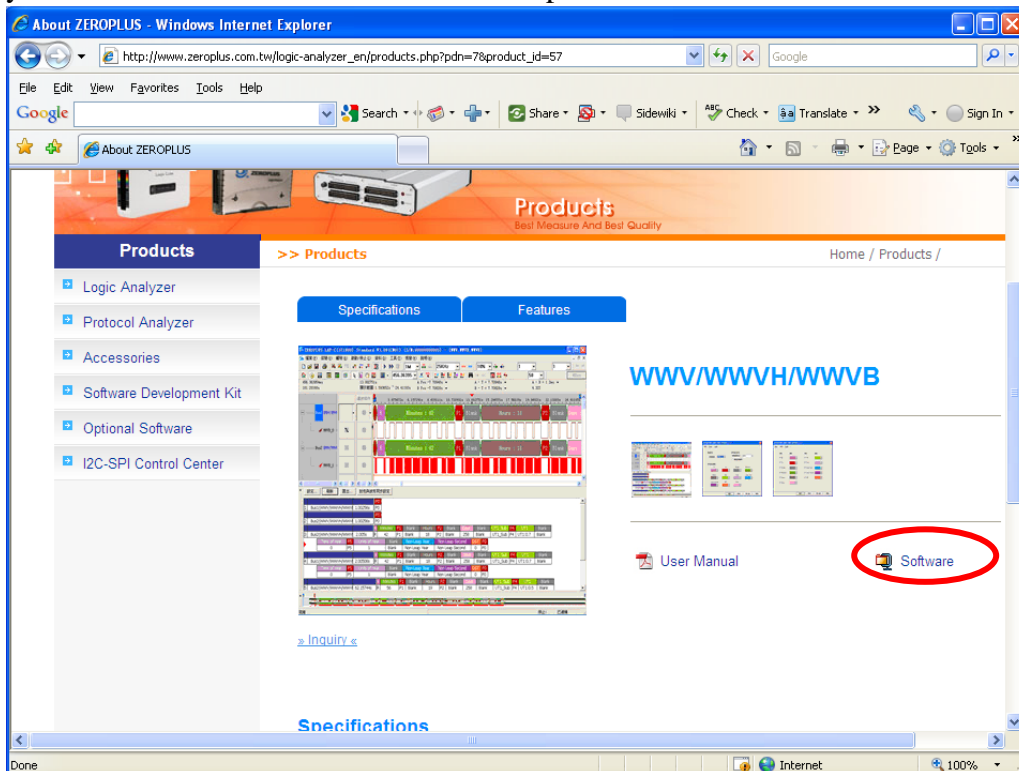




STEP 5. Click **WWW/WWWH/WWVB** in the Wireless column.



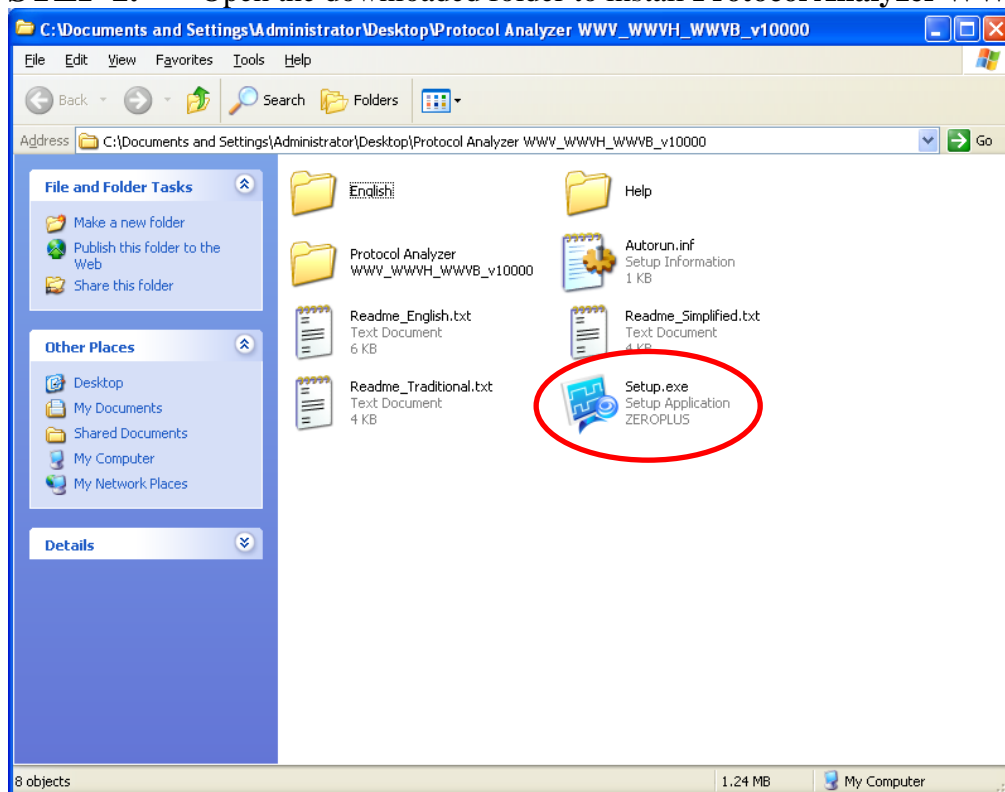
STEP 6. Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed folder.



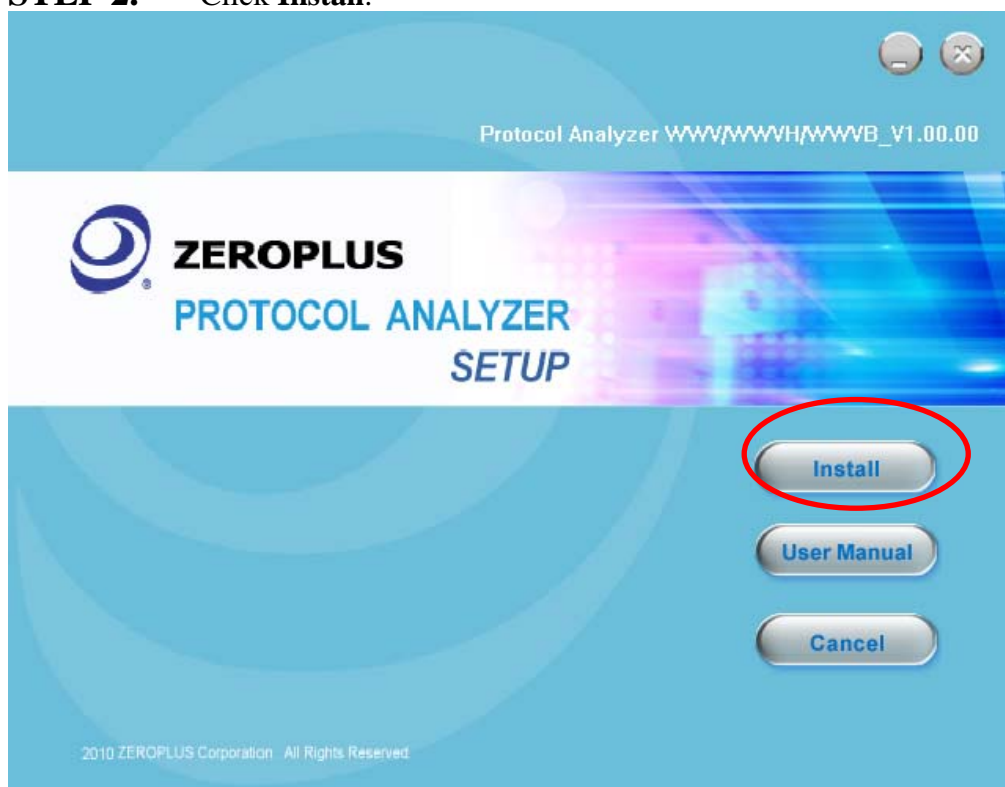


2 Software Installation

STEP 1. Open the downloaded folder to install **Protocol Analyzer WWV/WWVH/WWVB**.

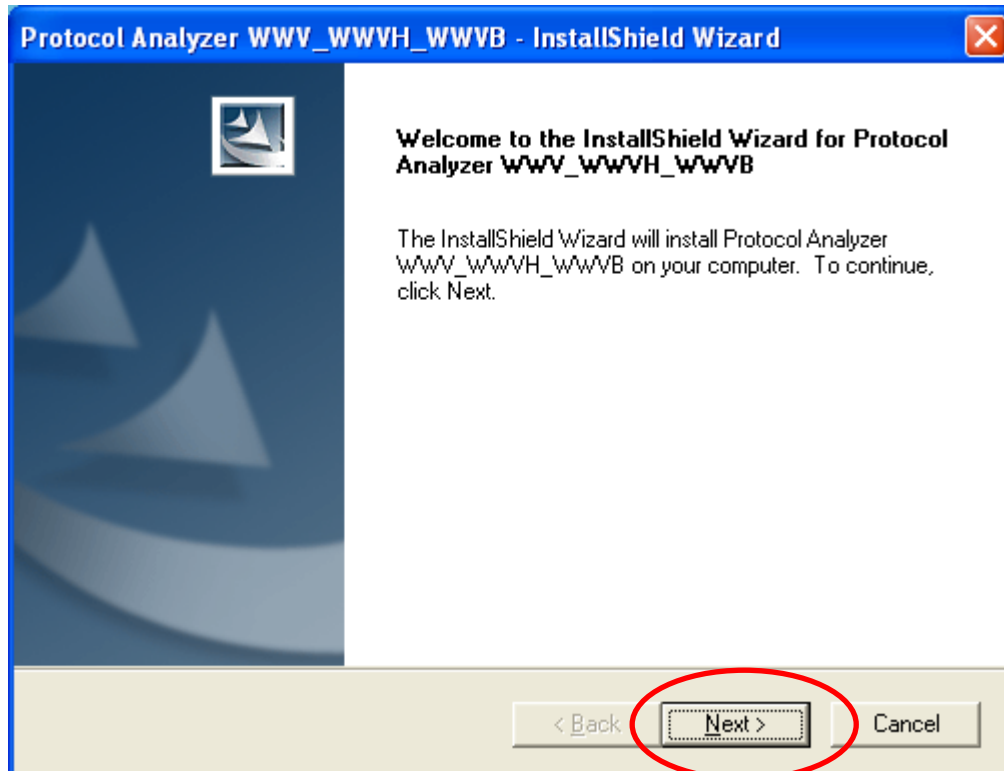


STEP 2. Click **Install**.

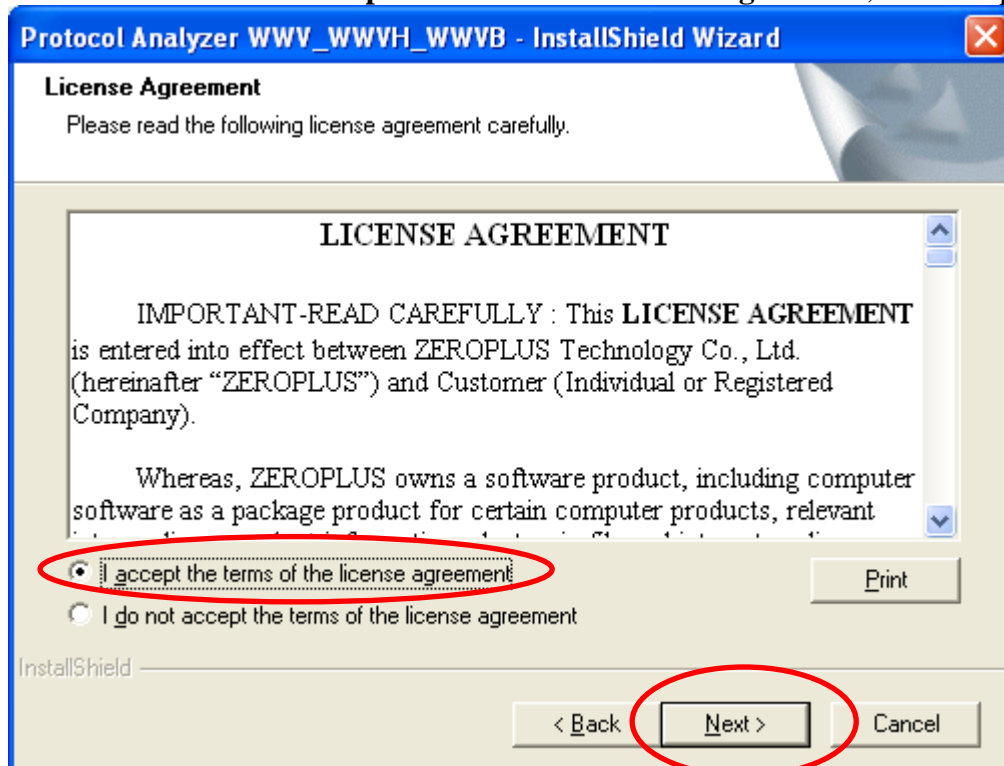




STEP 3. Click Next.



STEP 4. Select **I accept the terms of the license agreement**, and then press **Next**.





STEP 5. Fill in users' information in the below dialog box and click **Next**.

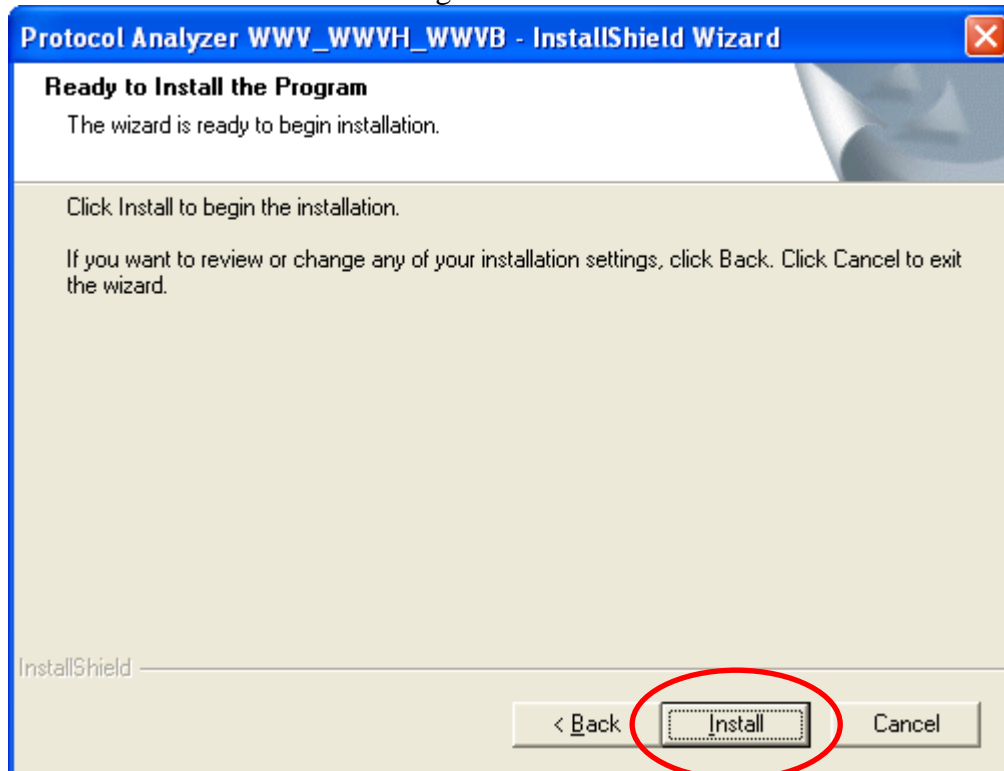
The screenshot shows the 'Customer Information' screen of the 'Protocol Analyzer WWV_WWVH_WWVB - InstallShield Wizard'. The window title is 'Protocol Analyzer WWV_WWVH_WWVB - InstallShield Wizard'. The main heading is 'Customer Information' with the instruction 'Please enter your information.' Below this, there are two text input fields: 'User Name:' containing 'Microsoft' and 'Company Name:' containing 'User'. Under the heading 'Install this application for:', there are two radio button options: 'Anyone who uses this computer (all users)' (which is selected) and 'Only for me (Microsoft)'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is circled in red.

STEP 6. First, select **Complete** and then click **Next**.

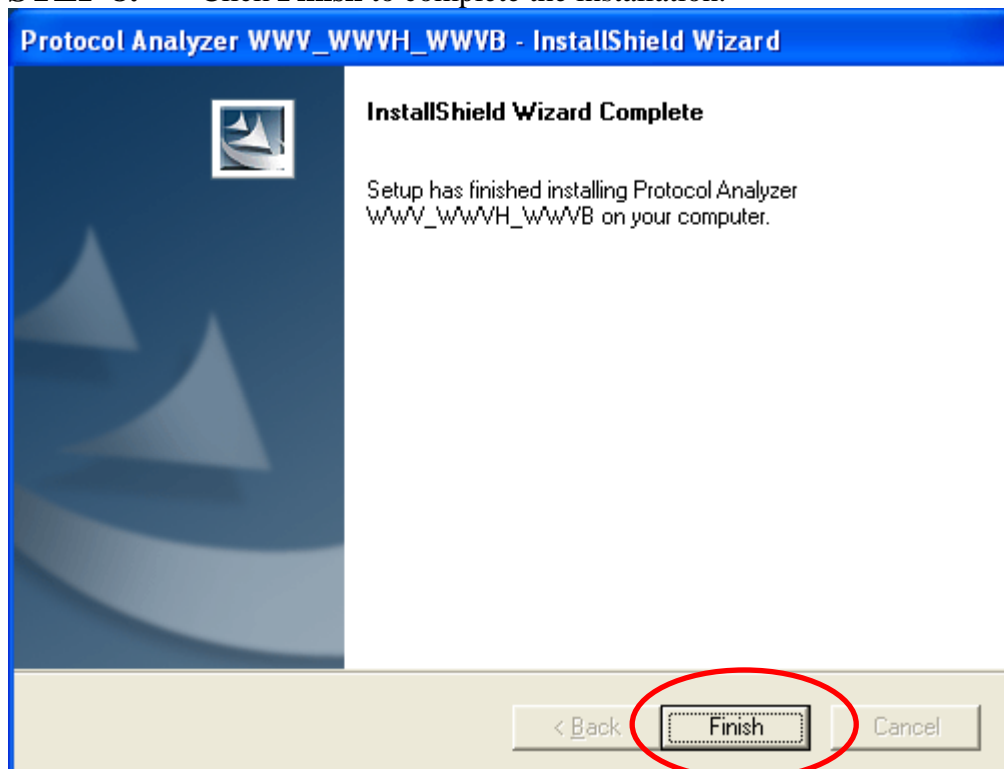
The screenshot shows the 'Setup Type' screen of the 'Protocol Analyzer WWV_WWVH_WWVB - InstallShield Wizard'. The window title is 'Protocol Analyzer WWV_WWVH_WWVB - InstallShield Wizard'. The main heading is 'Setup Type' with the instruction 'Select the setup type to install.' Below this, there are two radio button options: 'Complete' (which is selected) and 'Custom'. Each option has a small icon and a description. The 'Complete' option description is 'All program features will be installed. (Requires the most disk space.)'. The 'Custom' option description is 'Select which program features you want installed. Recommended for advanced users.' At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is circled in red.



STEP 7. Click **Install** to begin the installation.



STEP 8. Click **Finish** to complete the installation.

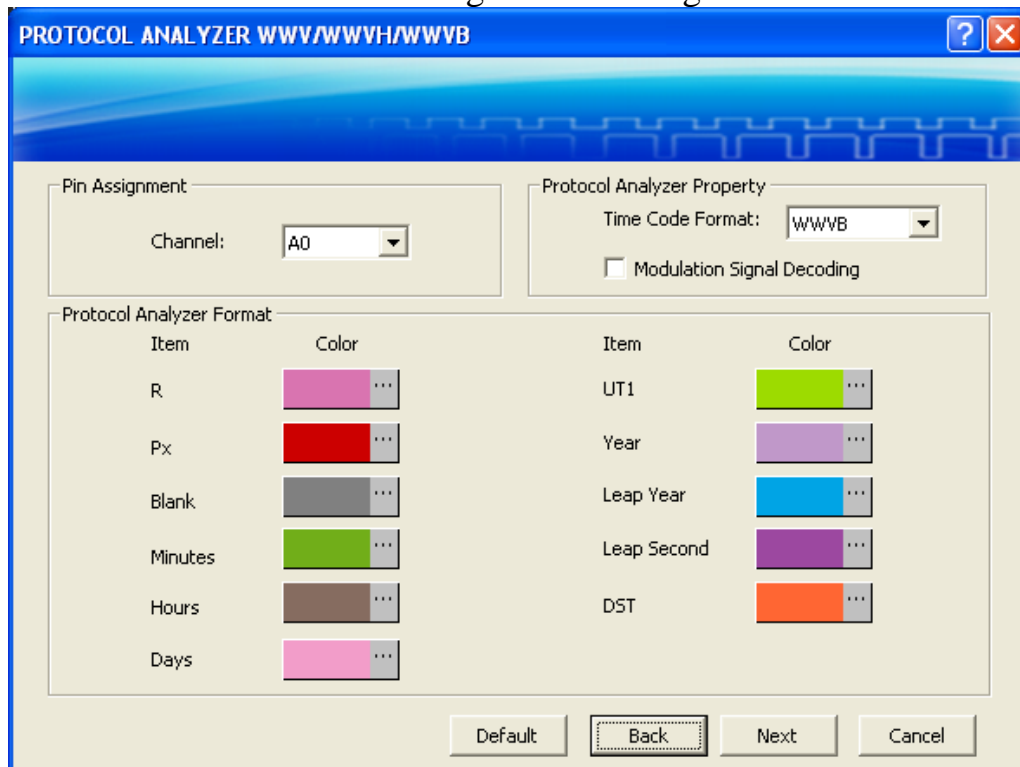




3 User Interface

In the configuration, please refer to below images to select options of the WWV/WWVH/WWVB module.

WWV/WWVH/WWVB Configuration Dialog Box



Pin Assignment:

The WWV/WWVH/WWVB only needs one channel to decode the signals, the default is A0.

Protocol Analyzer Property:

Time Code Format: The Format can be selected from the two options (WWVB, WWV/WWVH) on the pull-down menu, and the default is WWVB.

Modulation Signal Decoding: When the option is selected, the Protocol Analyzer will use the Modulation Signal Decoding. The default is not selected.

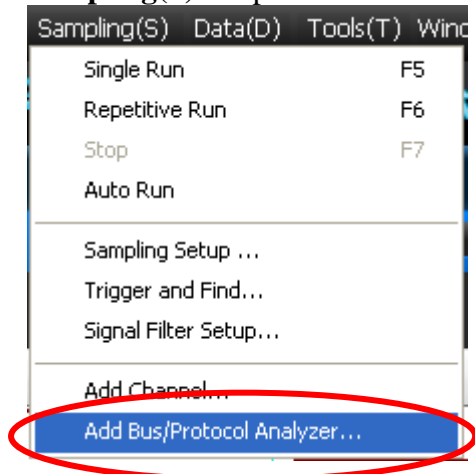
Protocol Analyzer Color:

Users can vary the colors of the decoded packet.

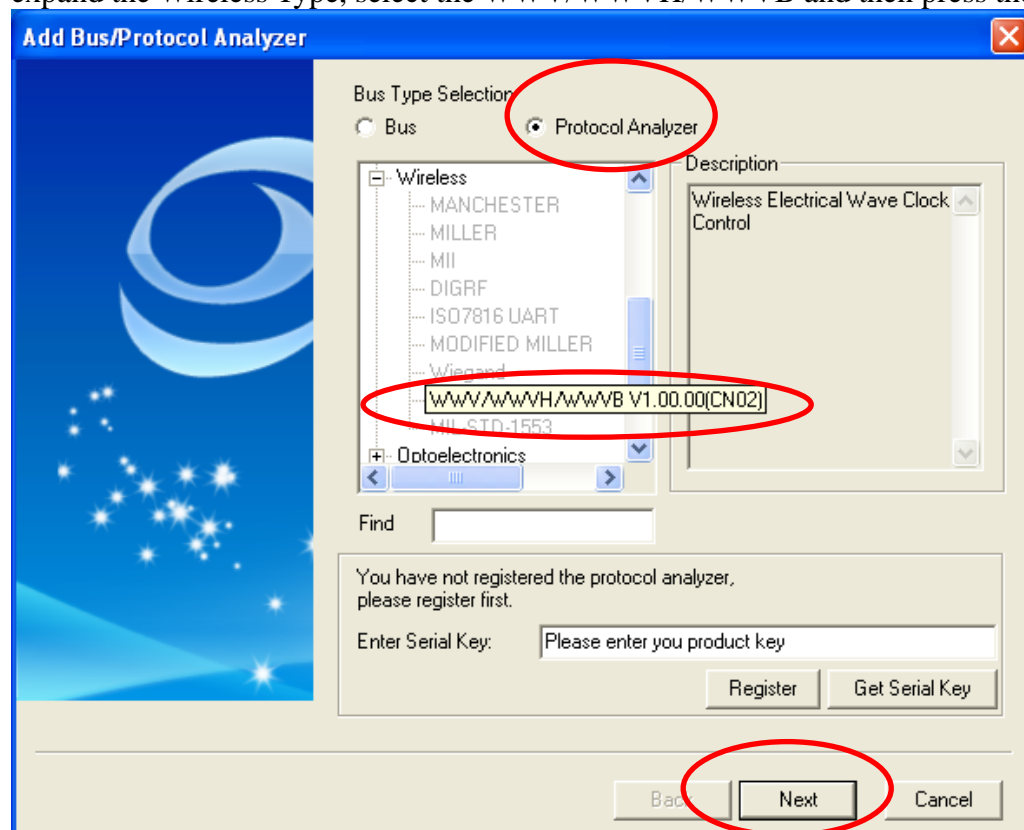


4 Operating Instructions

STEP 1. Select the **Add Bus/Protocol Analyzer** item on the pull-down menu of the **Sampling(S)** to open the **Add Bus/Protocol Analyzer** dialog box.

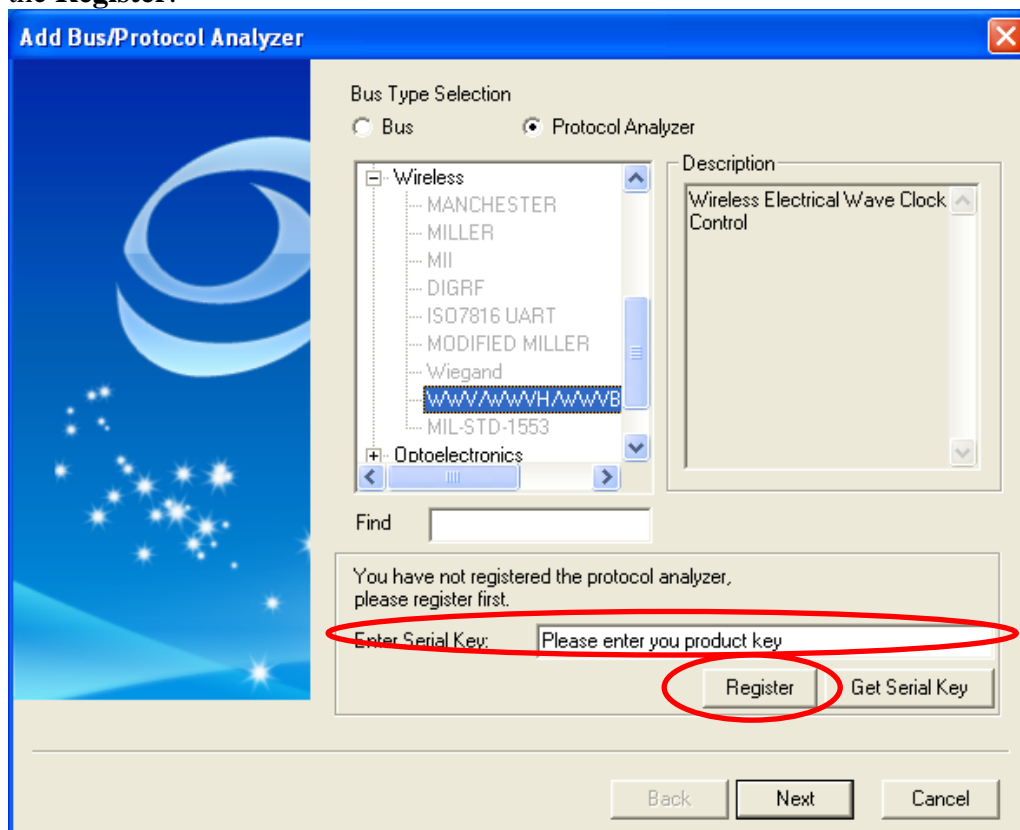


STEP 2. Select the Protocol Analyzer item in the Add Bus/Protocol Analyzer dialog box, expand the Wireless Type, select the WWV/WWVH/WWVB and then press the **Next**.

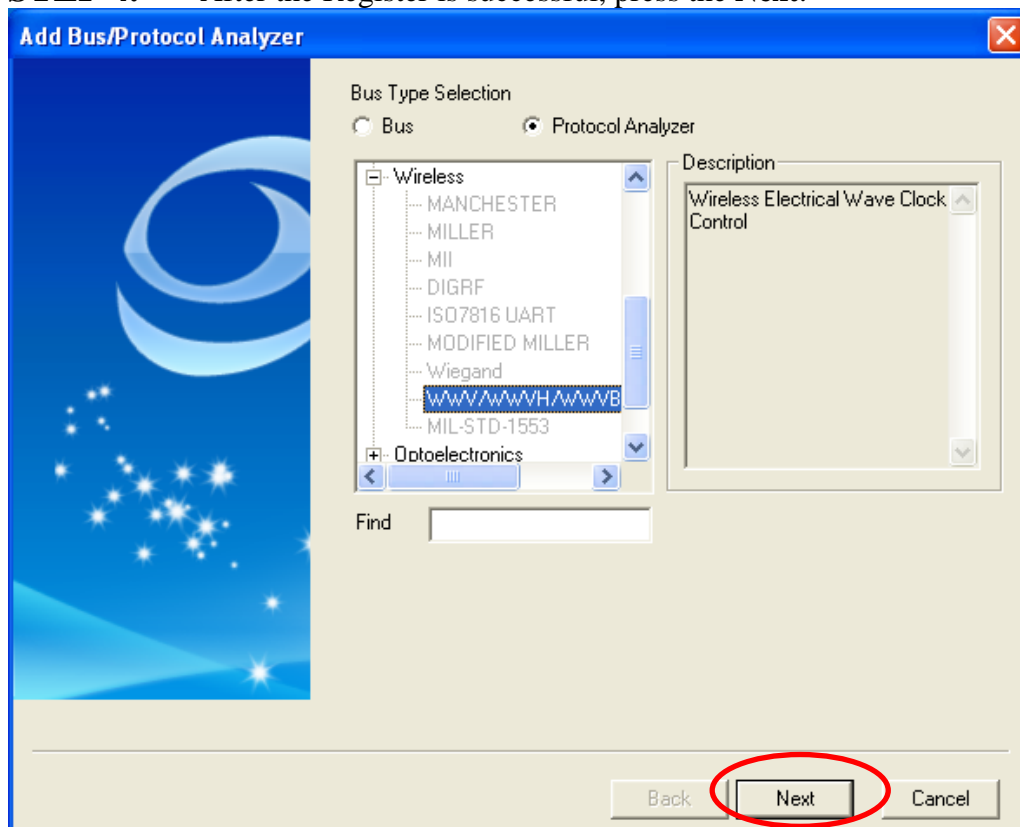




STEP 3. Enter the Serial Key of WWV/WWVH/WWVB under this Model, and then press the **Register**.

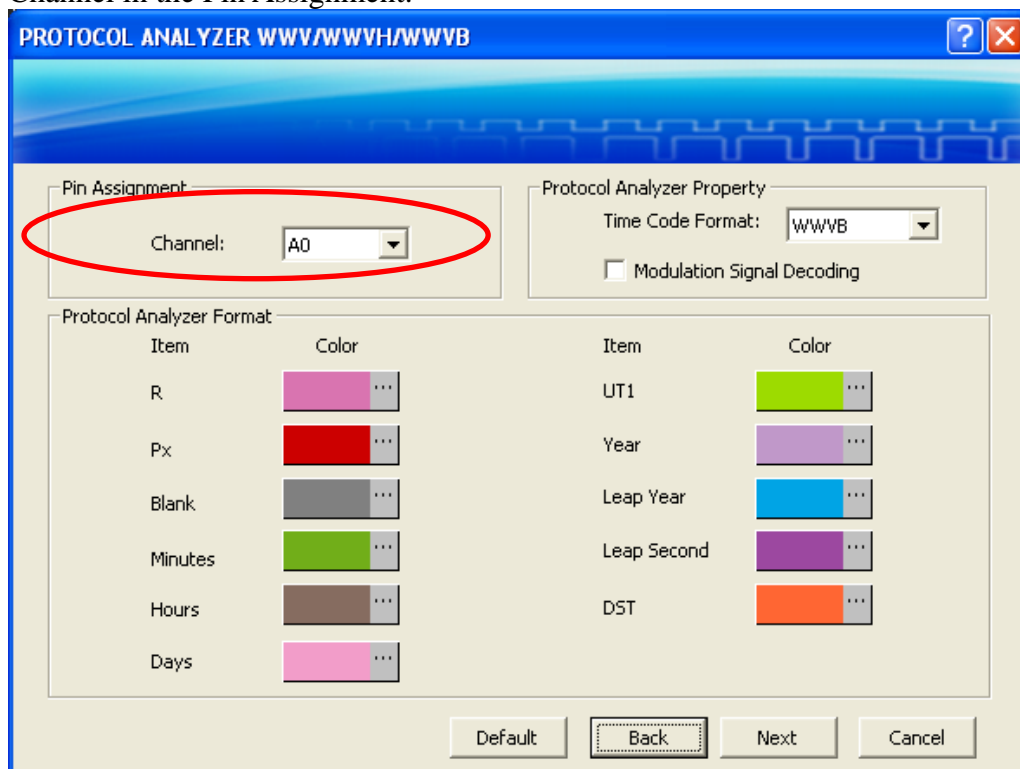


STEP 4. After the Register is successful, press the **Next**.

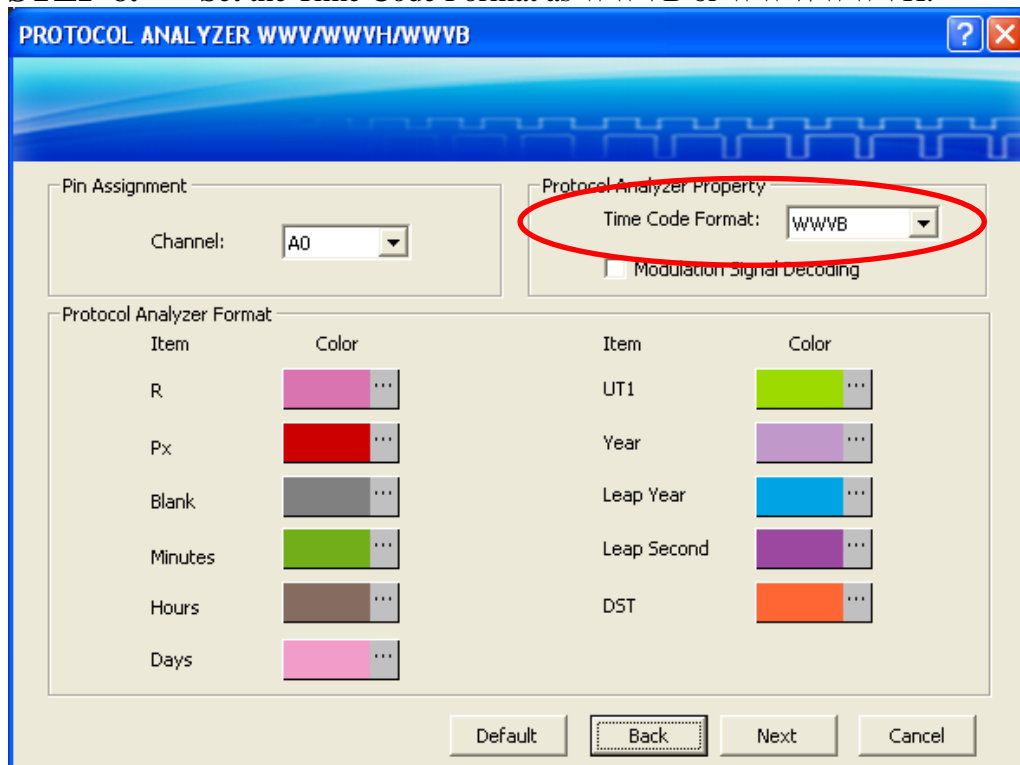




STEP 5. Open the PROTOCOL ANALYZER WWV/WWVH/WWVB dialog box and set the Channel in the Pin Assignment.

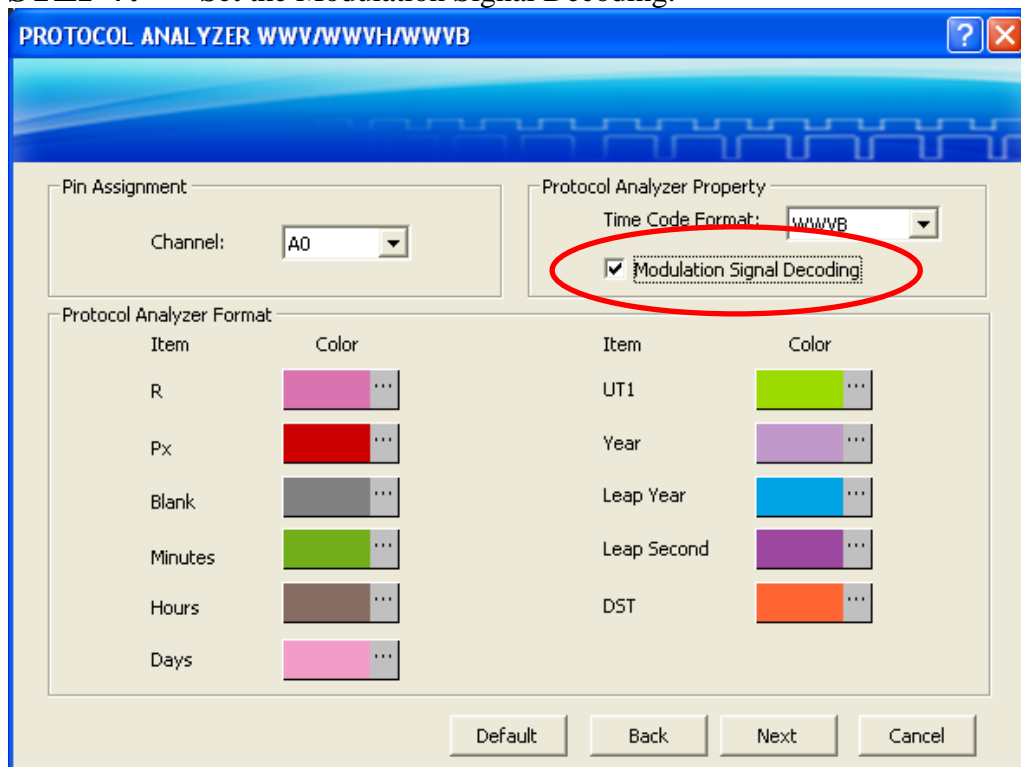


STEP 6. Set the Time Code Format as WWVB or WWV/WWVH.

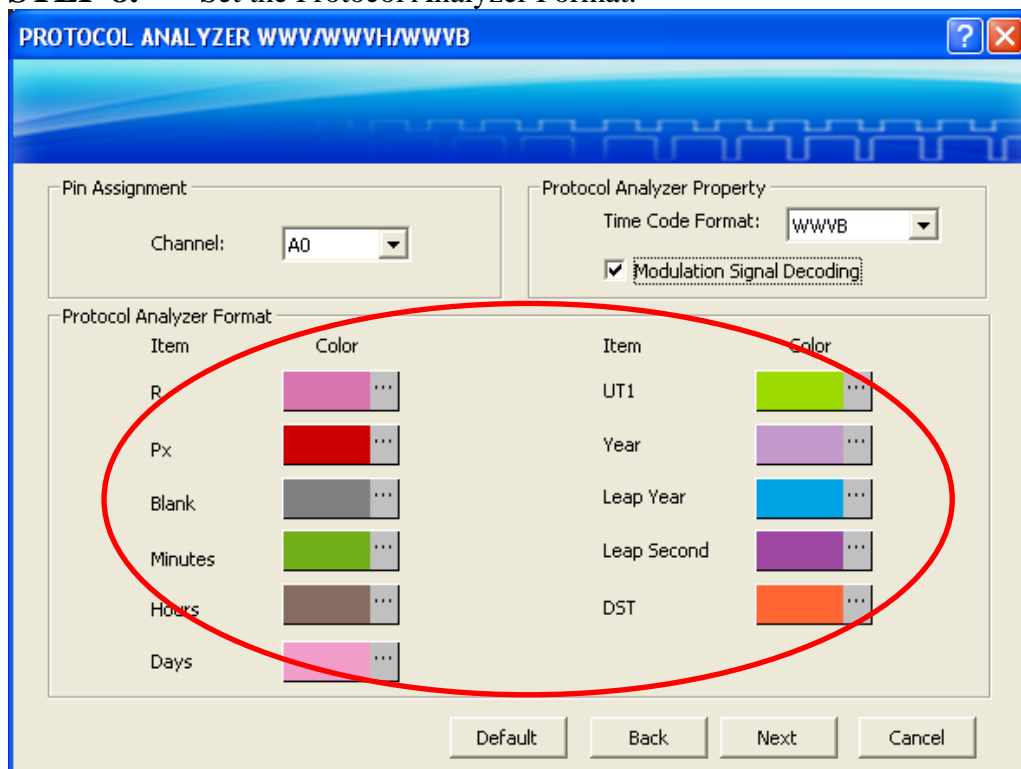




STEP 7. Set the Modulation Signal Decoding.

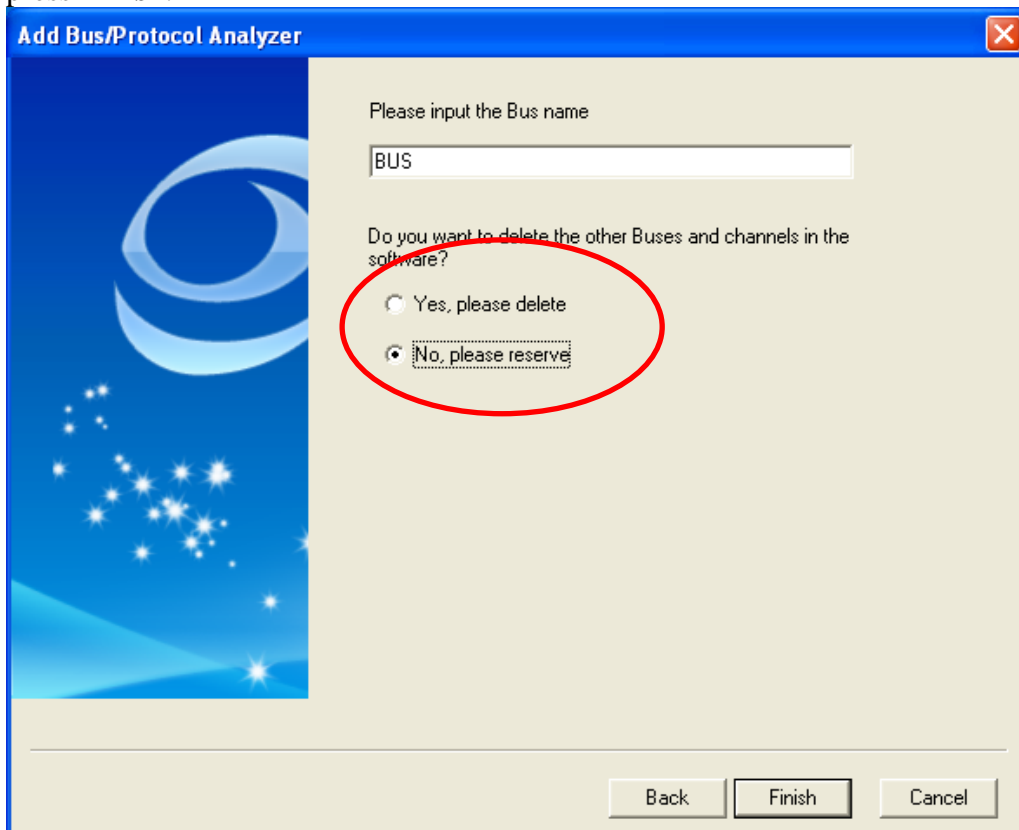


STEP 8. Set the Protocol Analyzer Format.



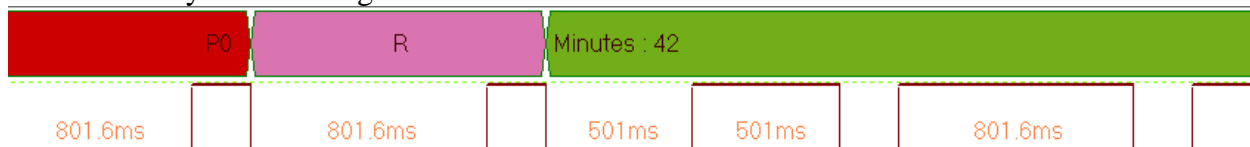


STEP 9. Please enter the Bus Name, select **Yes, please delete** or **No, please reserve** and then press **Finish**.



STEP 10. Following pictures show the completion of the protocol analyzer decoding and packet list. The Compression is activated. And the memory depth is 32K; the sampling frequency is 100Hz (the sampling frequency should be more than ten times higher than the signal to be tested).

Protocol Analyzer Decoding



Packet List

Navigator Packet List Statistics Memory Analyzer															
Setting... Refresh Export... Synch. Parameter...															
Packet #	Name	TimeStamp	R	Minutes	P1	Blank	Hours	P2	Blank	Days	Blank	UT1_Sub	P4	UT1	Blank
5	Bus1(WWW/VH/VVVV)	4008ms	R	42	P1	Blank	18	P2	Blank	258	Blank	UT1_Sub	P4	UT1:0.7	Blank
Tens of Year				P5	Units of Year	Blank	Non Leap Year		Non Leap Second		DST	P0			
0				P5	1	Blank	Non Leap Year		Non Leap Second		0	P0			
Packet #	Name	TimeStamp	R	Minutes	P1	Blank	Hours	P2	Blank	Days	Blank	UT1_Sub	P4	UT1	Blank
6	Bus1(WWW/VH/VVVV)	64128.2ms	R	56	P1	Blank	19	P2	Blank	258	Blank	UT1_Sub	P4	UT1:0.5	Blank
Tens of Year				P5	Units of Year	Blank	Leap Year		Leap Second		DST				
0				P5	1	Blank	Leap Year		Leap Second		0				