



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.

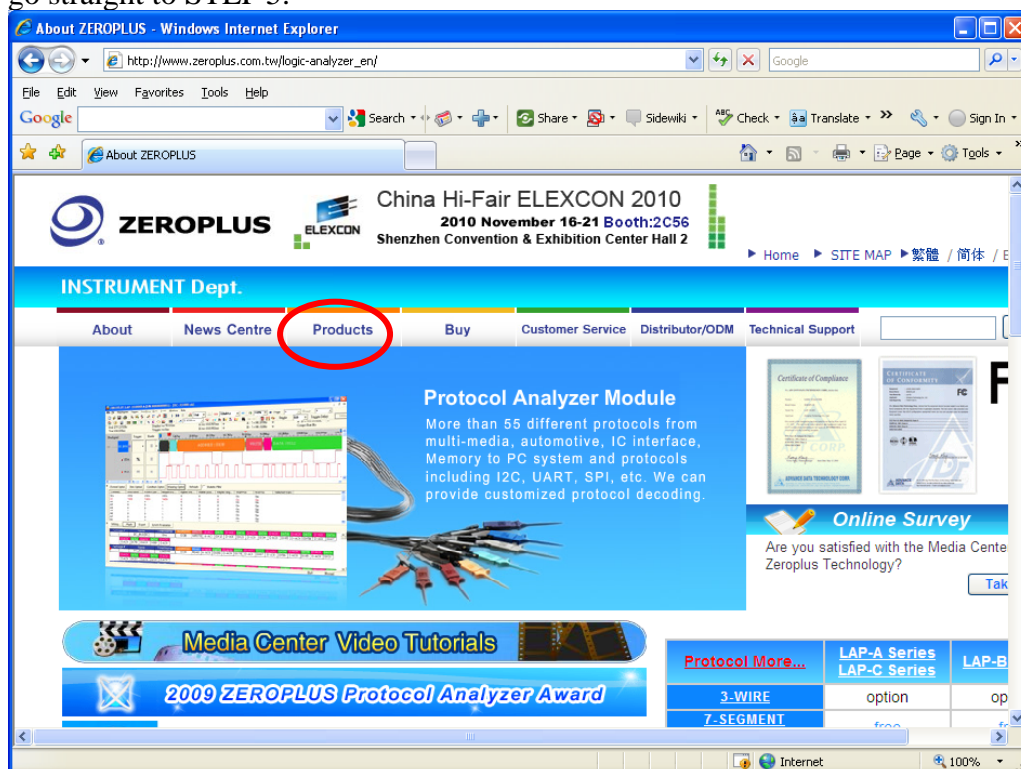
STEP 1. Visit the website of ZeroPlus: <http://www.zeroplus.com.tw>.

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

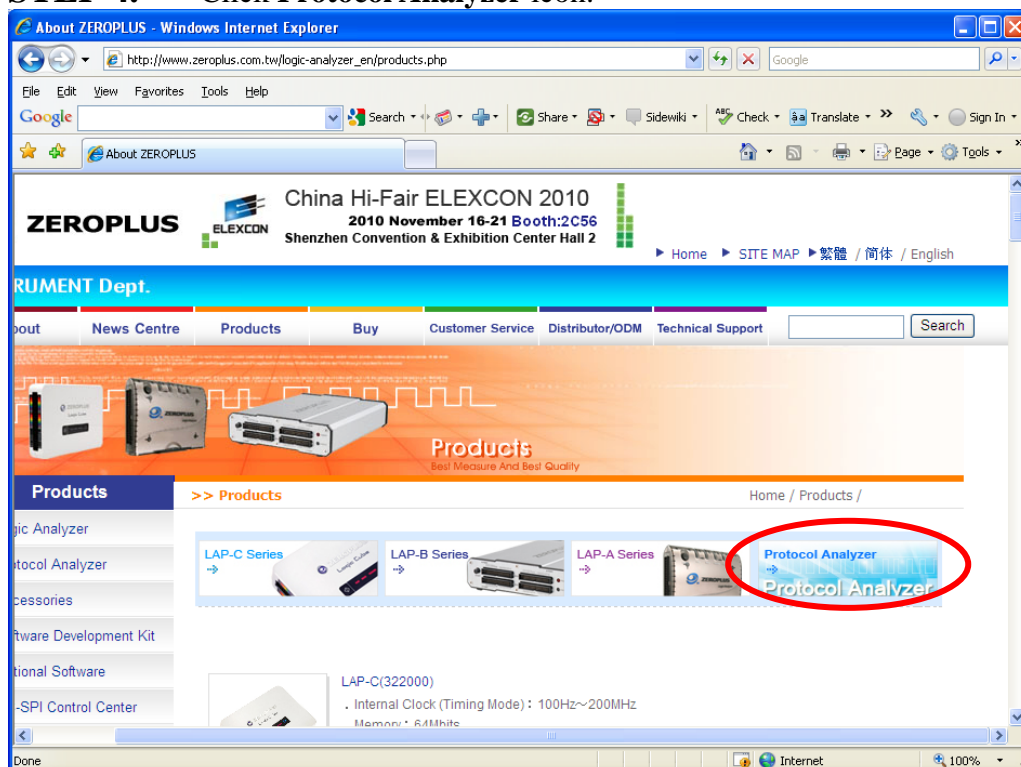




STEP 3. Click **Products** menu or select **Protocol Analyzer** item from its pull-down menu to go straight to STEP 5.

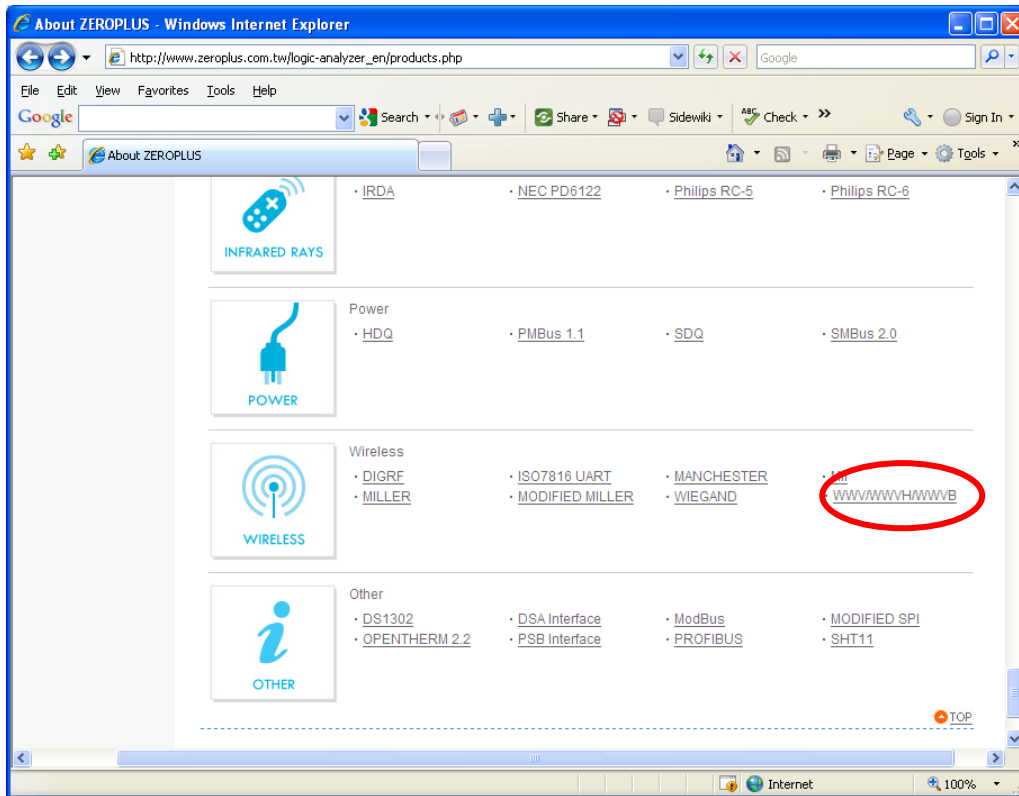


STEP 4. Click **Protocol Analyzer** icon.

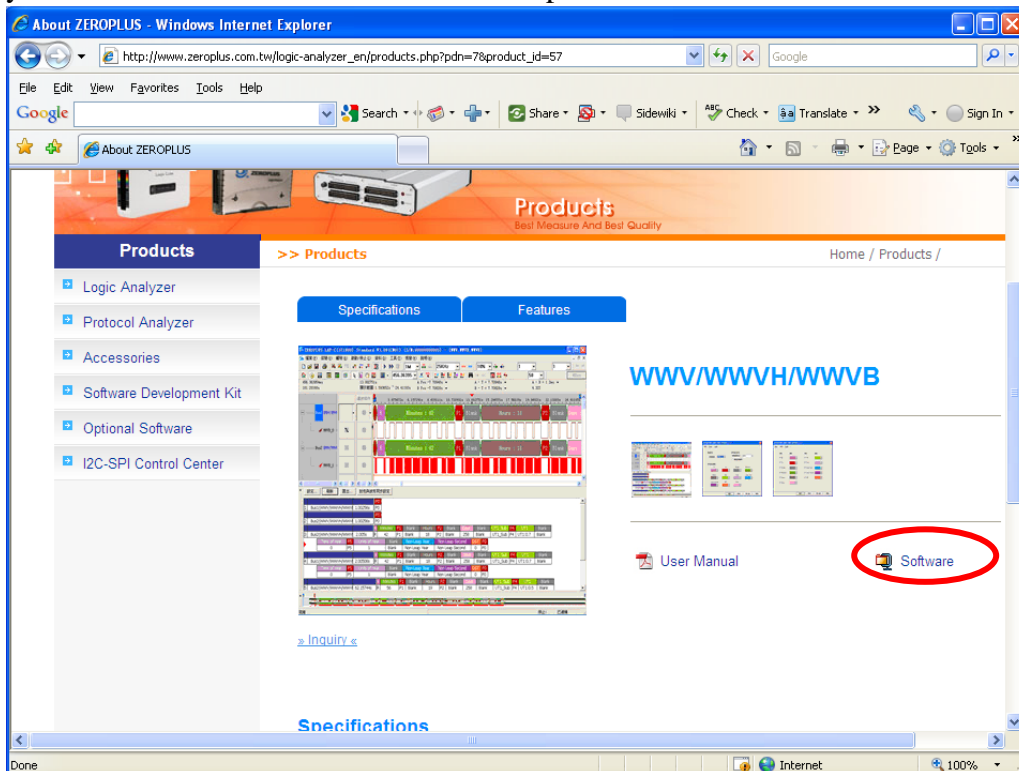




STEP 5. Click **WWW/WWWH/WWVB** in the Wireless column.



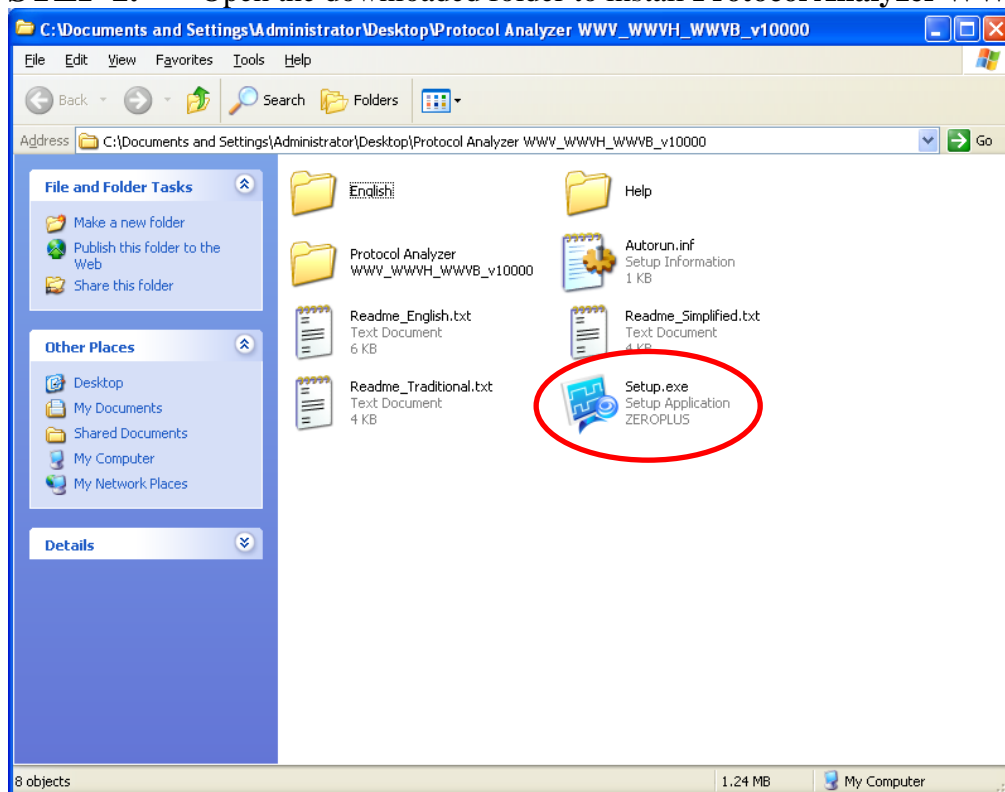
STEP 6. Click **Software** in the Products page. When the File Download dialog box appears, you can click **Save** button to save the compressed folder.



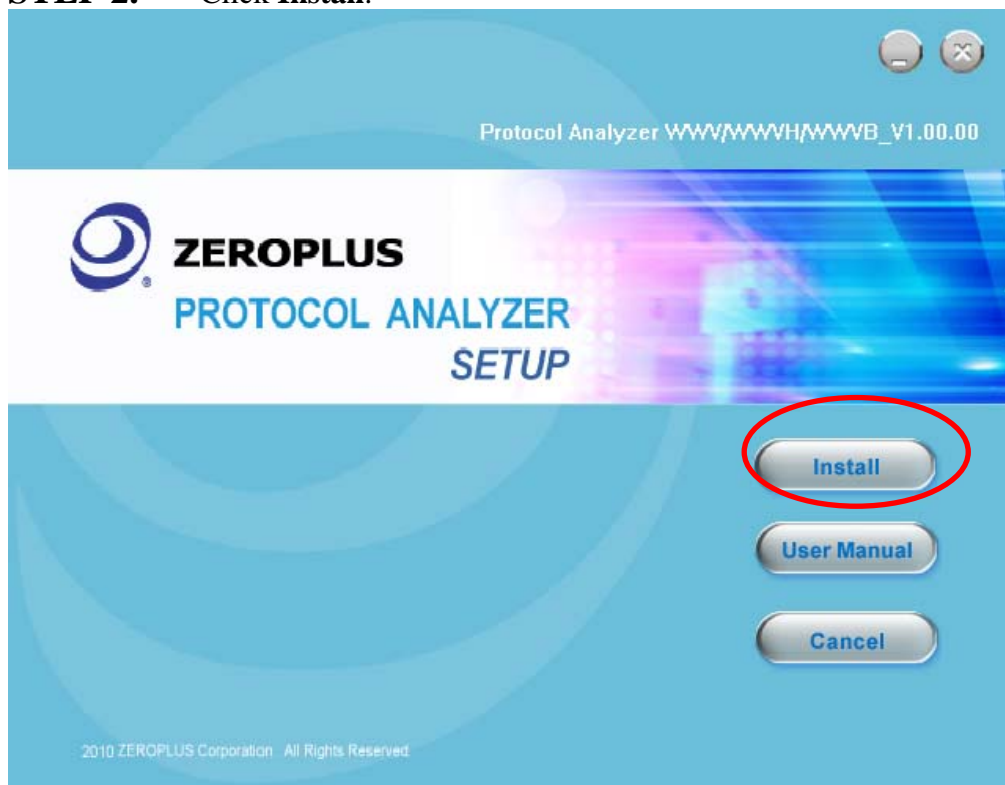


2 Software Installation

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

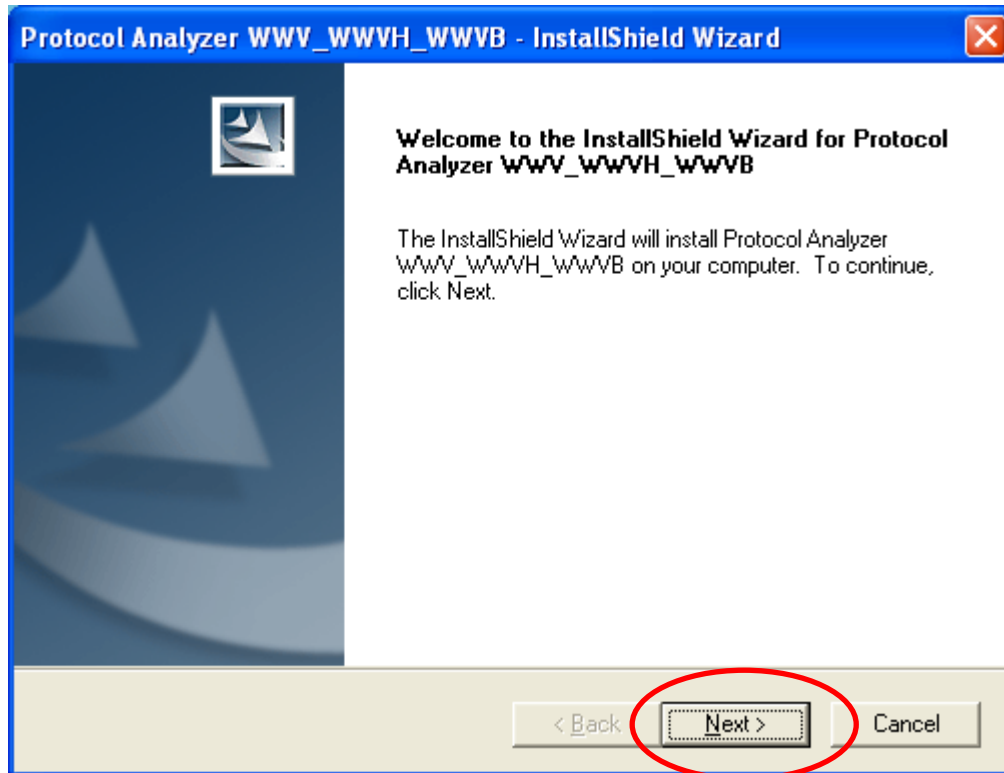


STEP 2. Click **Install**.

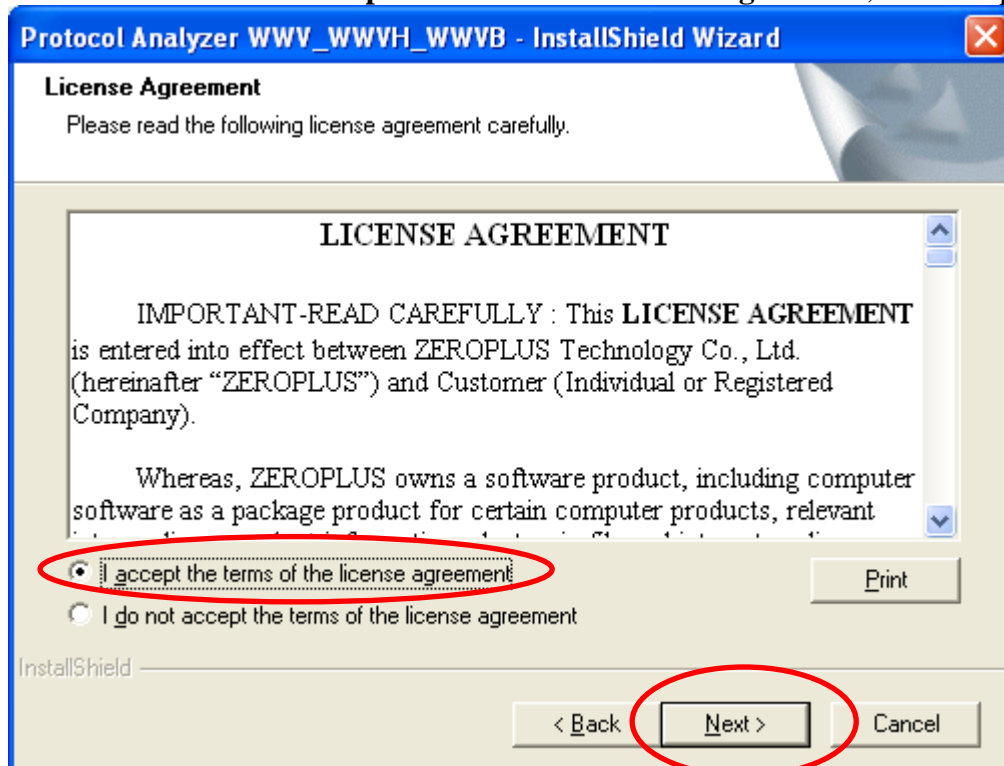




STEP 3. Click Next.



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**.

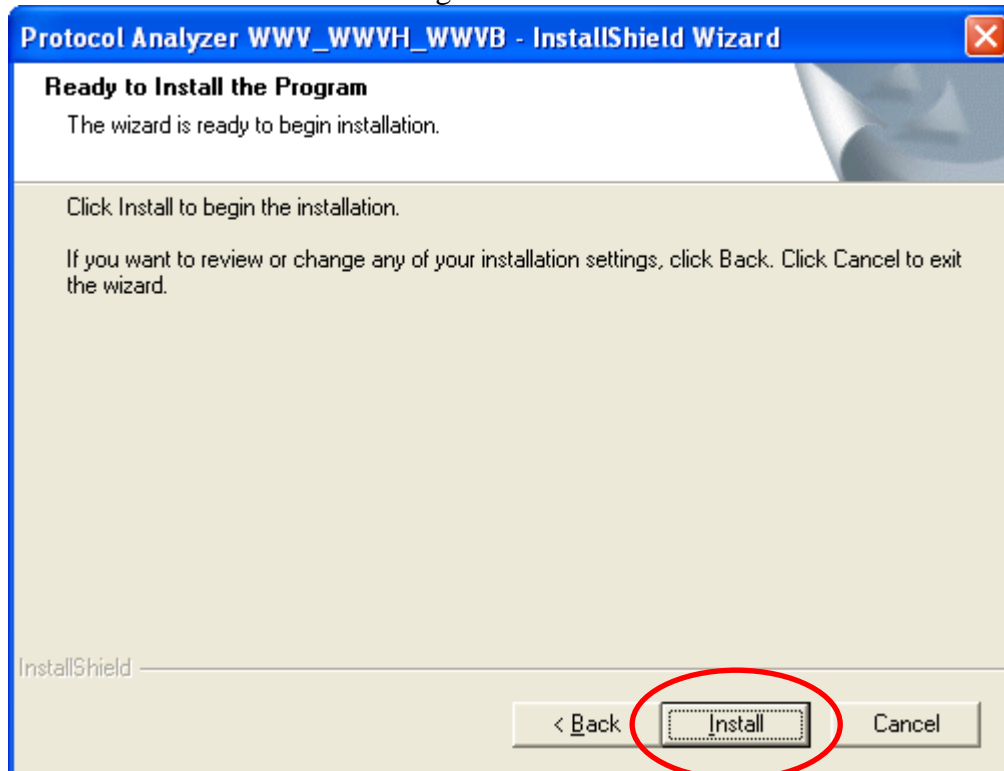
The screenshot shows the 'Customer Information' screen of the 'Protocol Analyzer WWV_WWVH_WWVB - InstallShield Wizard'. The window title is 'Protocol Analyzer WWV_WWVH_WWVB - InstallShield Wizard'. The main heading is 'Customer Information' with the instruction 'Please enter your information.' Below 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**.

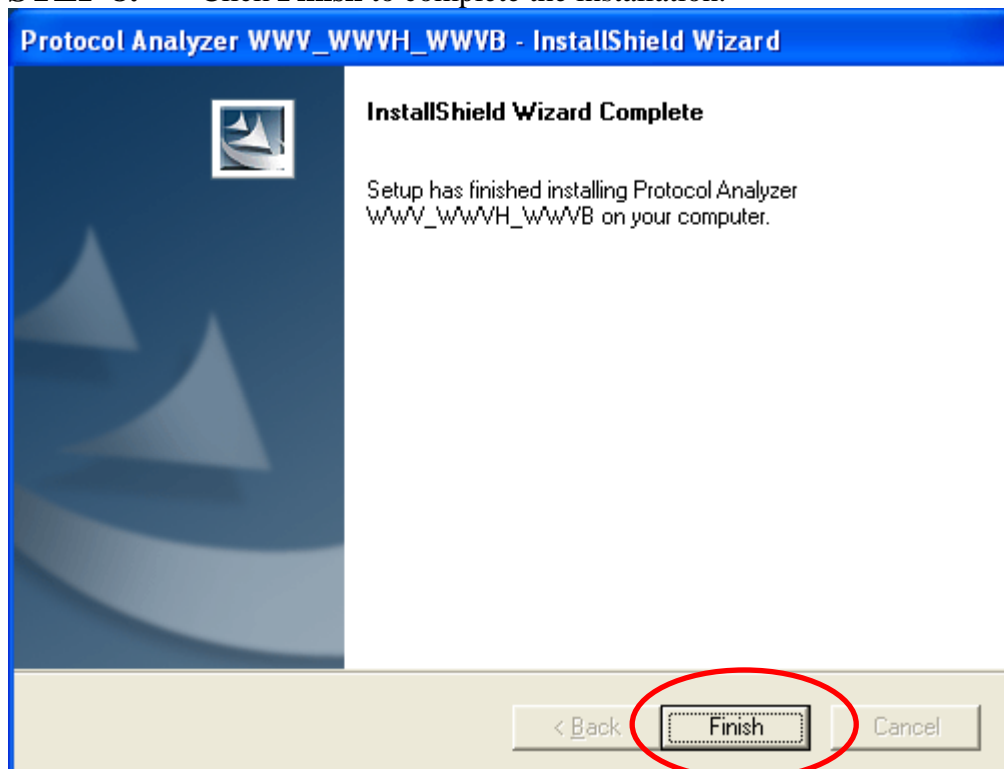
The screenshot shows the 'Setup Type' screen of the 'Protocol Analyzer WWV_WWVH_WWVB - InstallShield Wizard'. The window title is 'Protocol Analyzer WWV_WWVH_WWVB - InstallShield Wizard'. The main heading is 'Setup Type' with the instruction 'Select the setup type to install.' Below this, there are two 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.



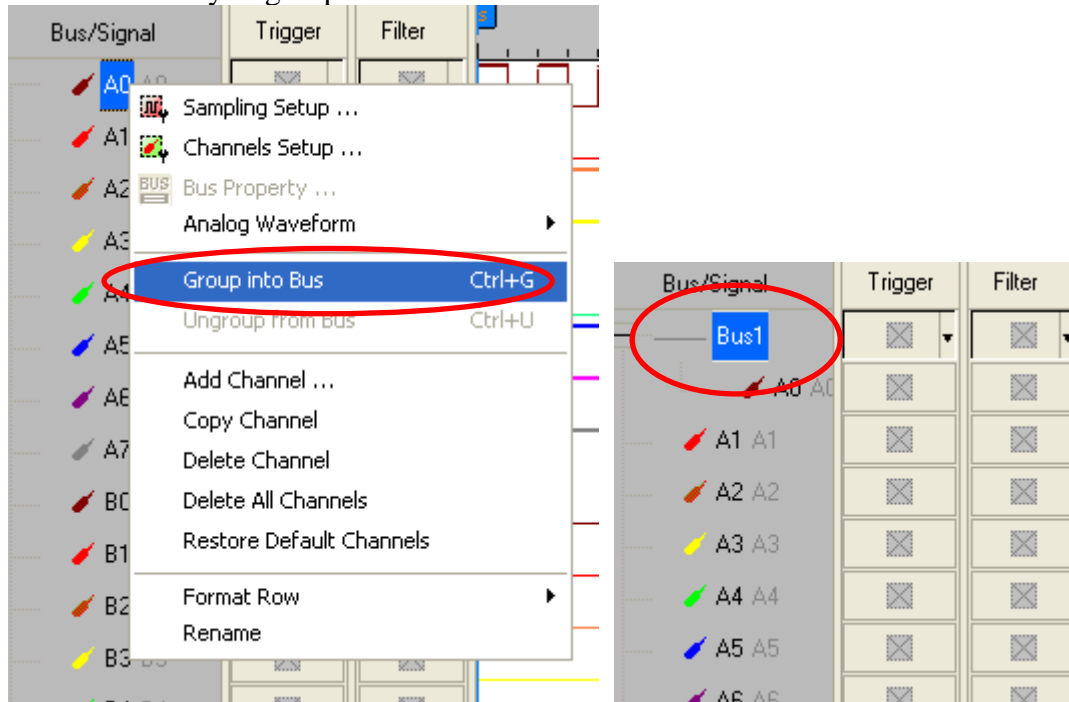
STEP 8. Click **Finish** to complete the installation.



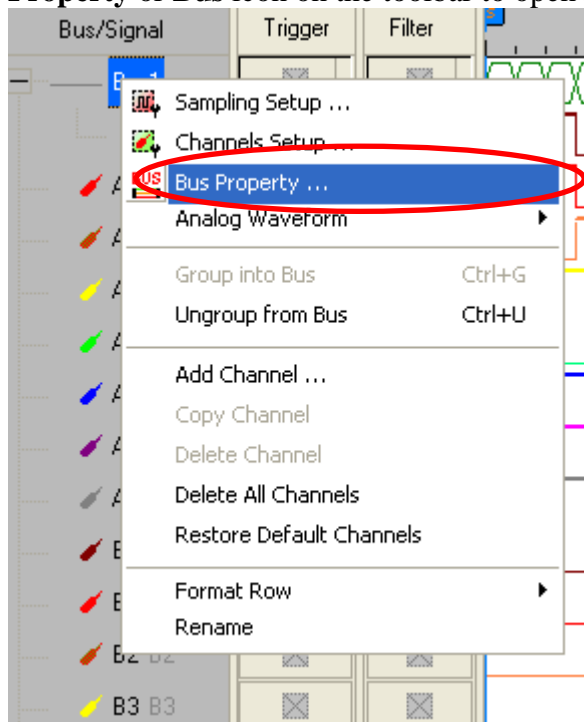


3 Software Register

STEP 1. Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. **WWV/WWVH/WWVB** only needs one channel to decode signals, so it is necessary to group one or more channels into a Bus.

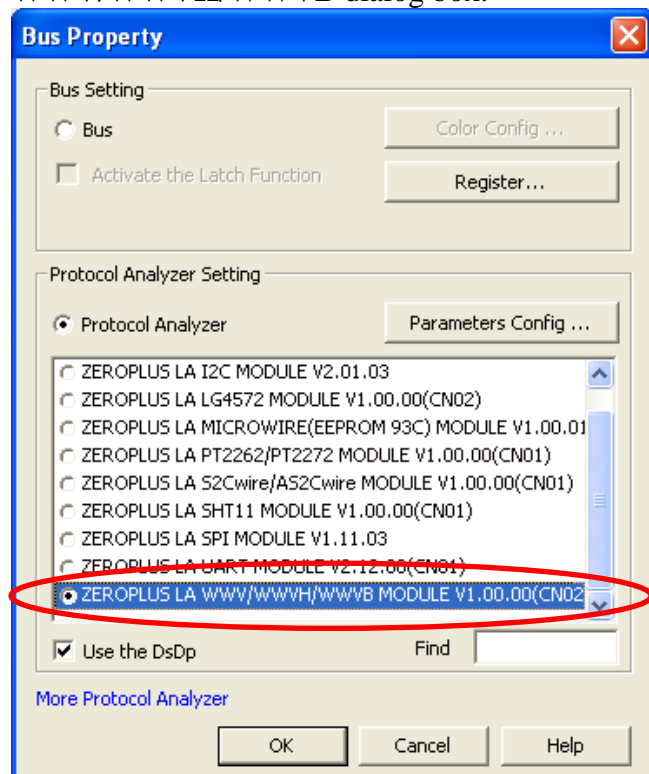


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

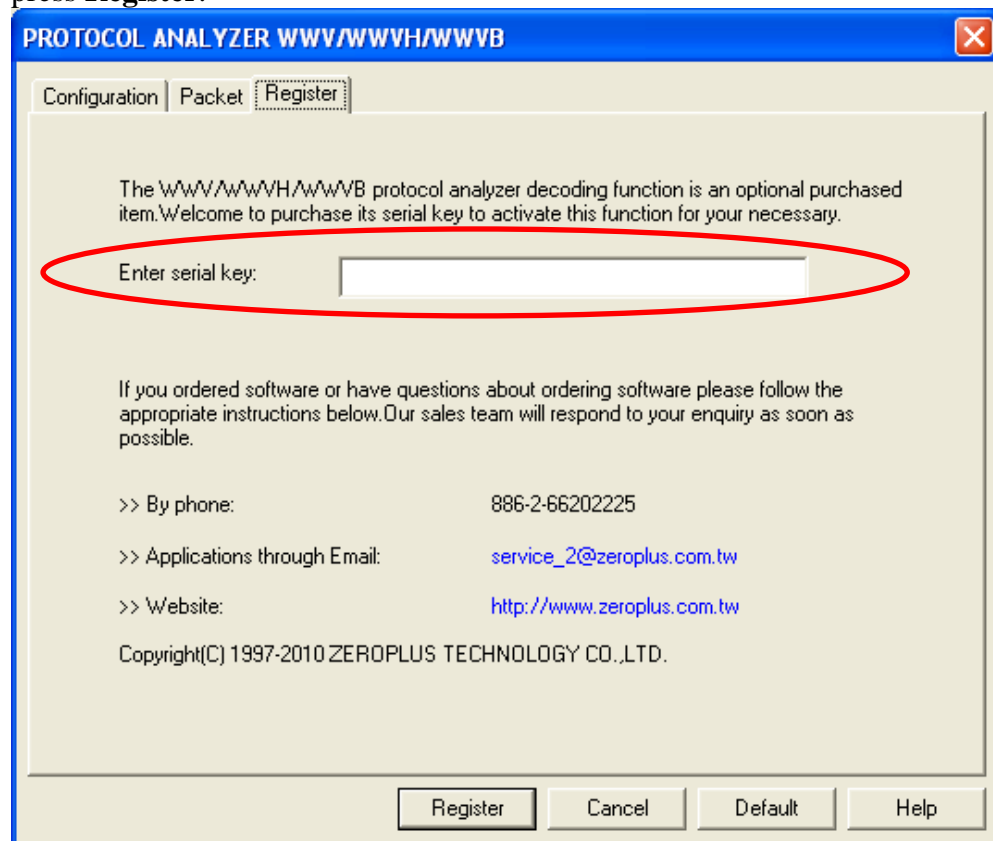




STEP 3. For Protocol Analyzer WWV/WWVH/WWVB Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA WWV/WWVH/WWVB MODULE V1.00.00 (CN02)**. Next click **Parameters Configuration** to open the **PROTOCOL ANALYZER WWV/WWVH/WWVB** dialog box.

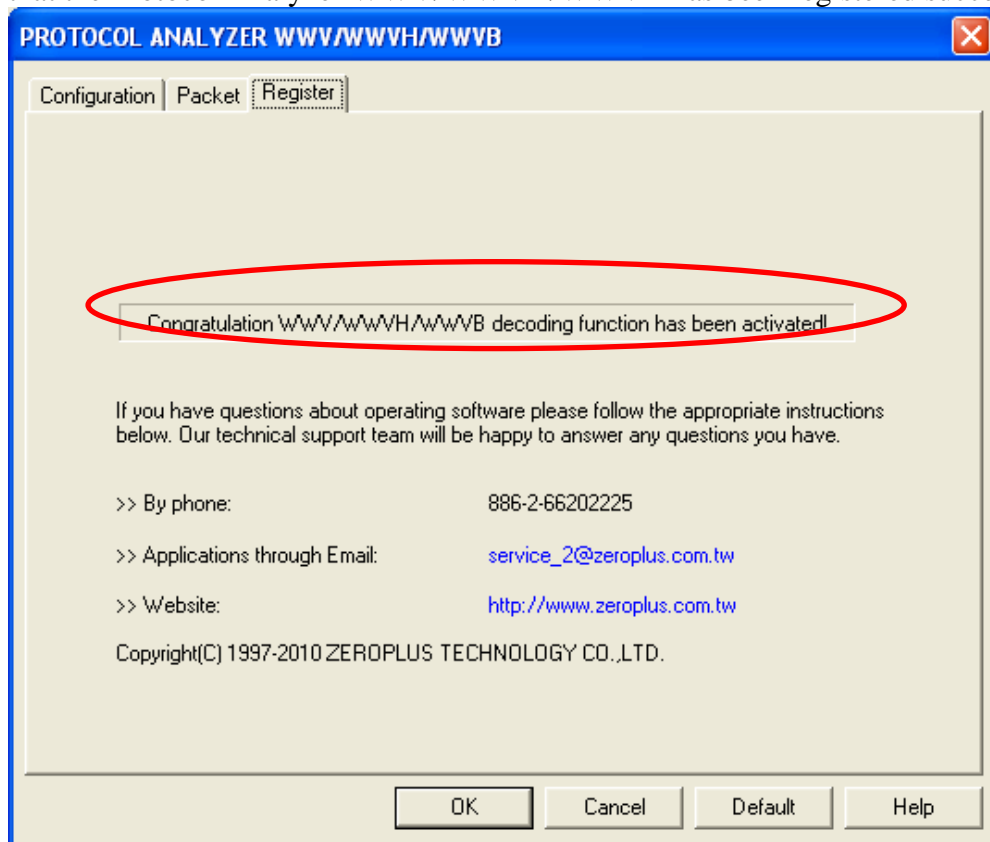


STEP 4. Press the Register tab to enter the serial key of the **WWV/WWVH/WWVB**. Then, press **Register**.





STEP 5. After pressing the Register button, the following dialog box will appear; it denotes that the Protocol Analyzer WWV/WWVH/WWVB has been registered successfully.

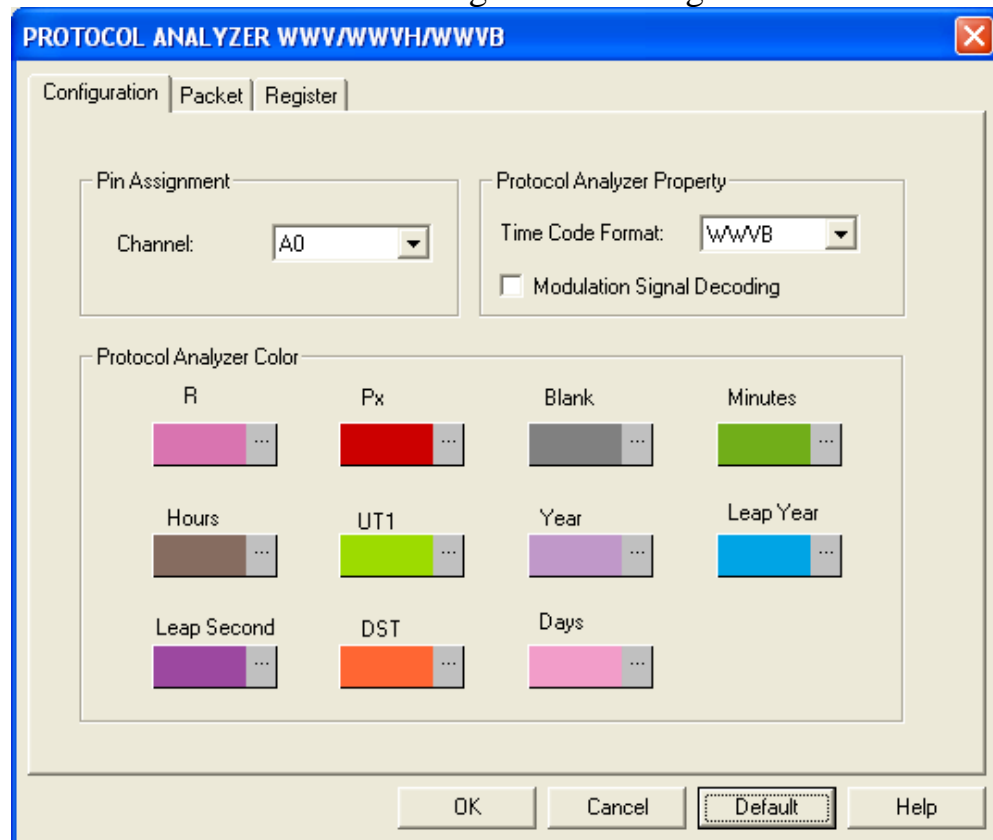




4 User Interface

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.

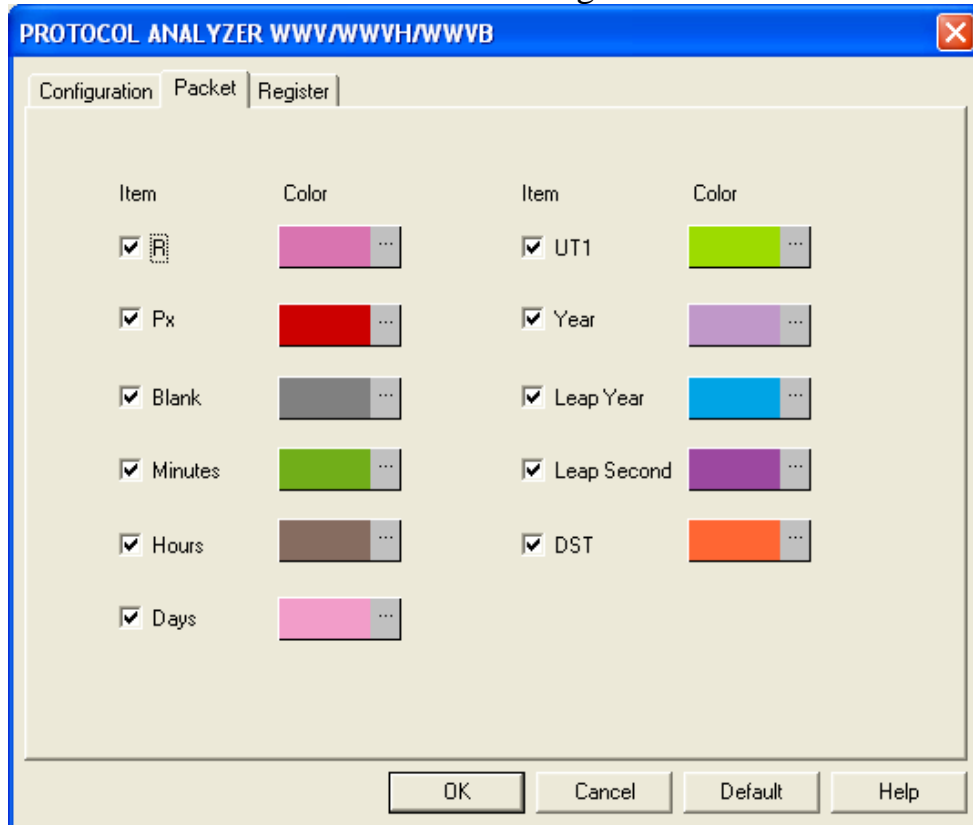
Modulation Signal Decoding: When the option is selected, the Protocol Analyzer will use the Modulation Signal Decoding. The default is not selected.

Protocol Analyzer Color:

Users can vary the colors of the decoded packet.

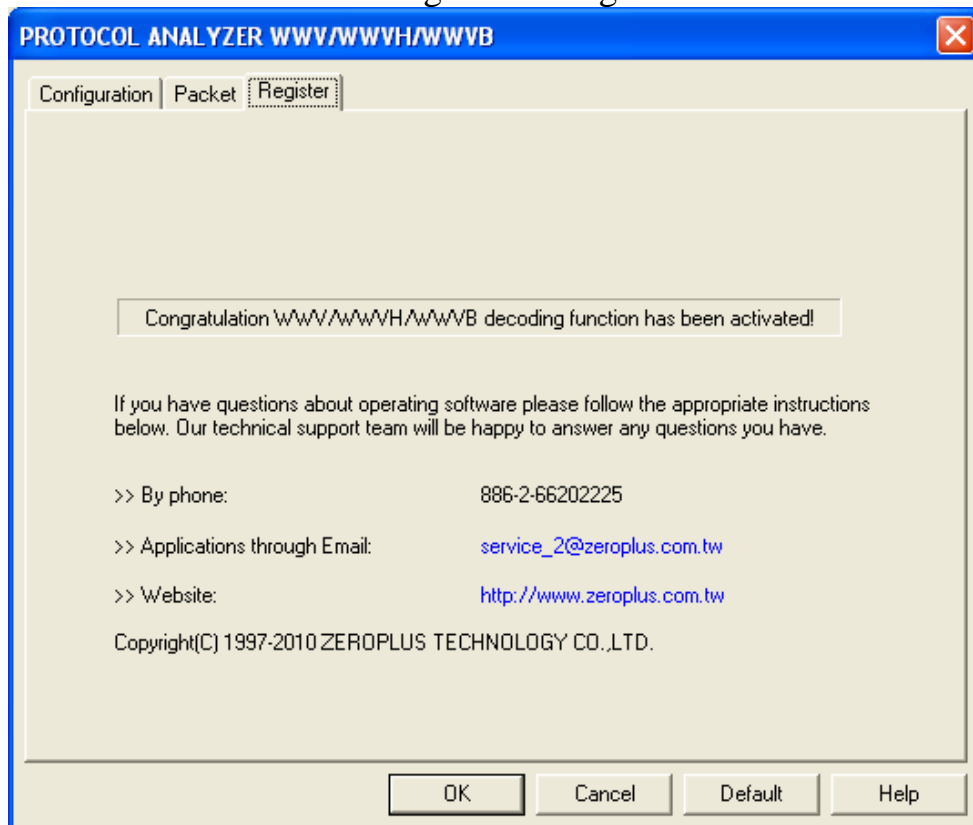


WWV/WWVH/WWVB Packet Dialog Box



In the Packet dialog box, users can set the item to be displayed and the color of items.

WWV/WWVH/WWVB Register Dialog Box

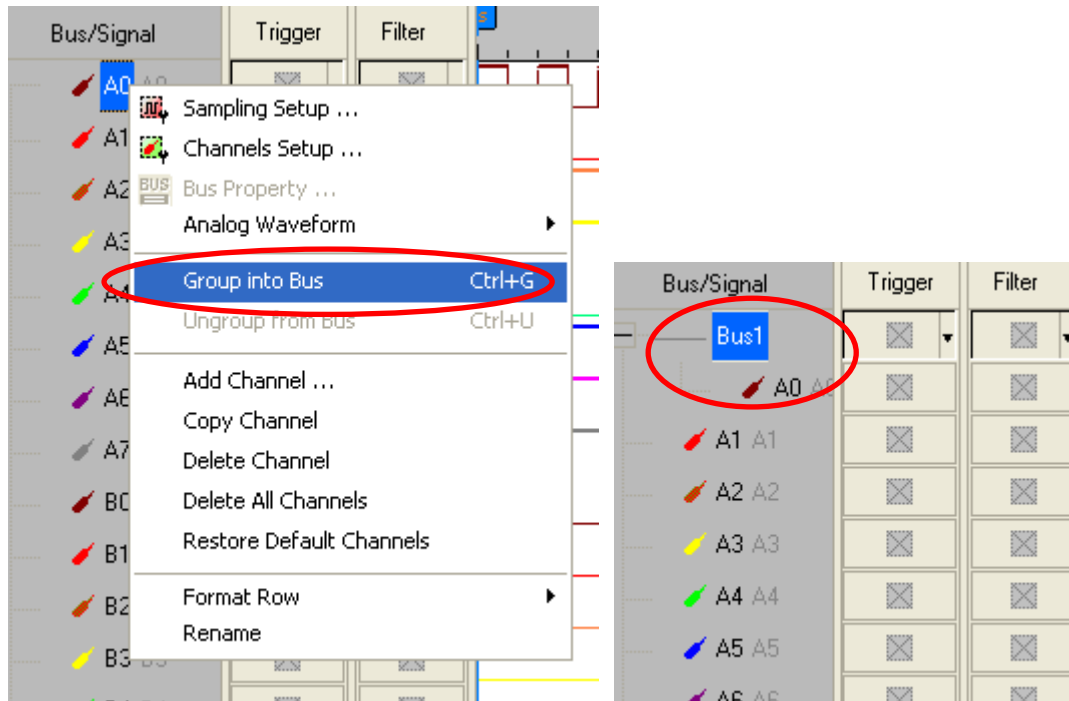


There is ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

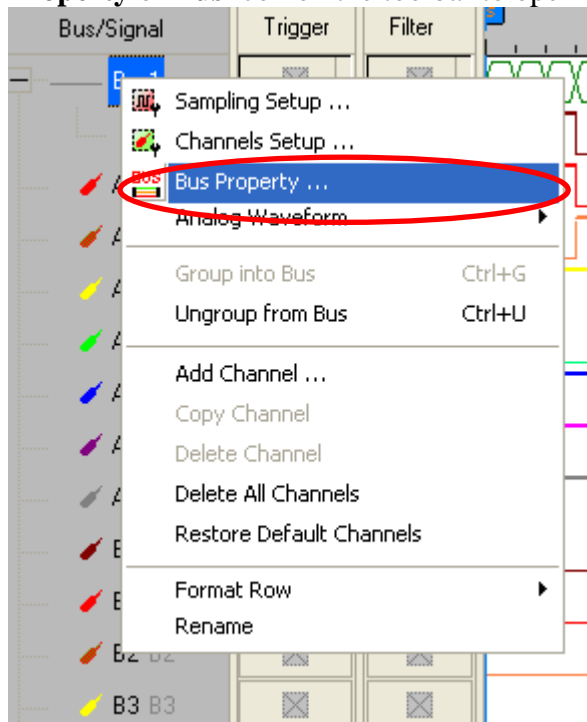


5 Operating Instructions

STEP 1. Group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse. WWV/WWVH/WWVB only needs one channel to decode signals, so it is necessary to group one or more channels into a Bus.

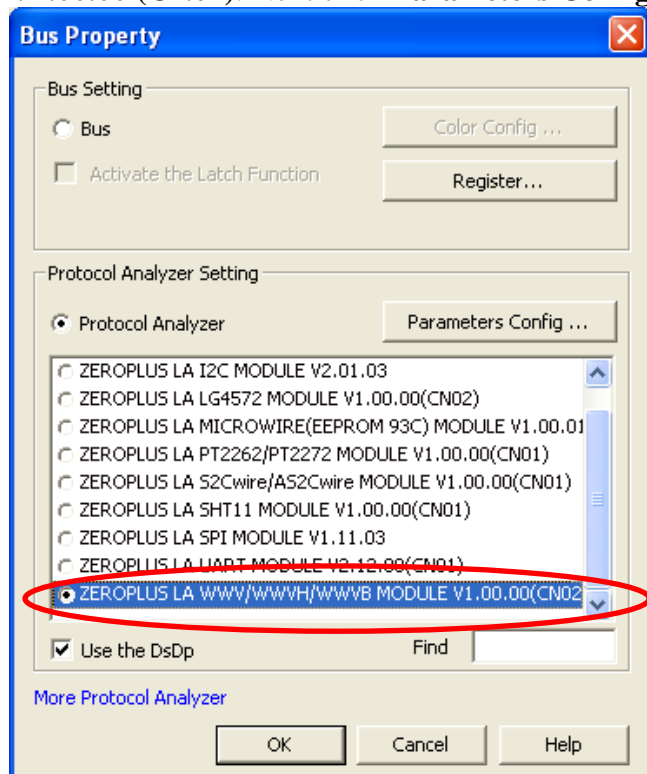


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.

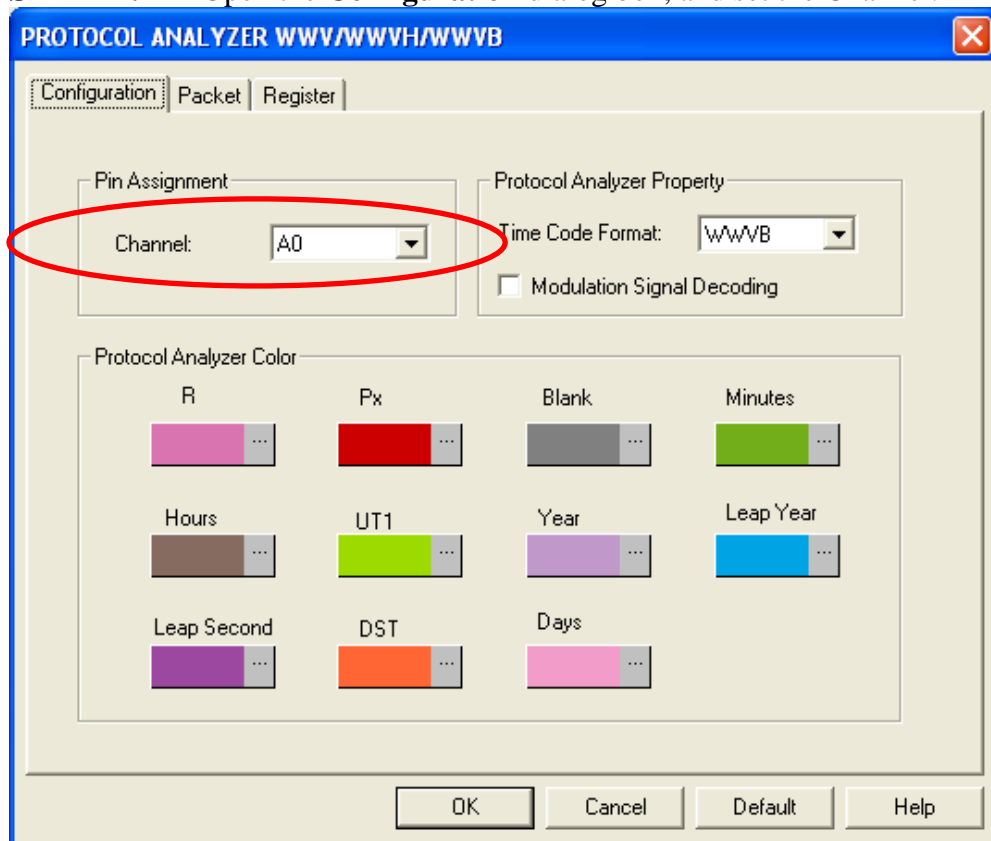




STEP 3. For Protocol Analyzer WWV/WWVH/WWVB Parameters Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA WWV/WWVH/WWVB MODULE V1.00.00 (CN02)**. Next click **Parameters Configuration** to open the **Configuration** dialog box.

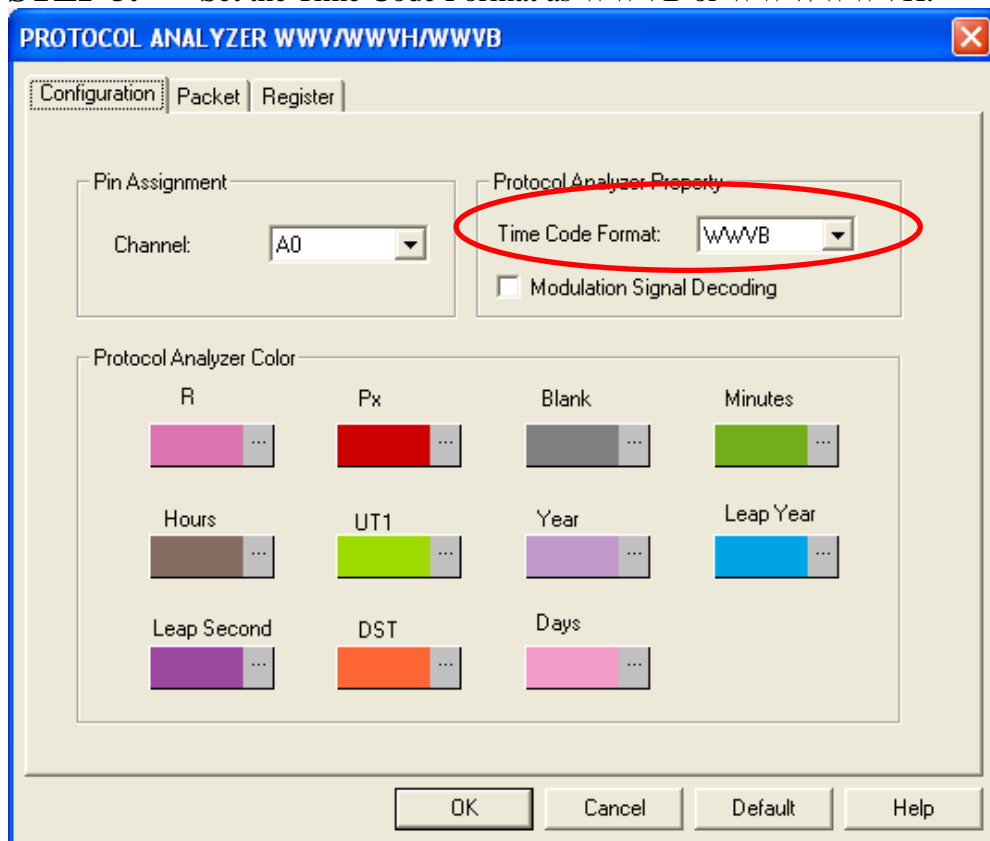


STEP 4. Open the **Configuration** dialog box, and set the Channel.

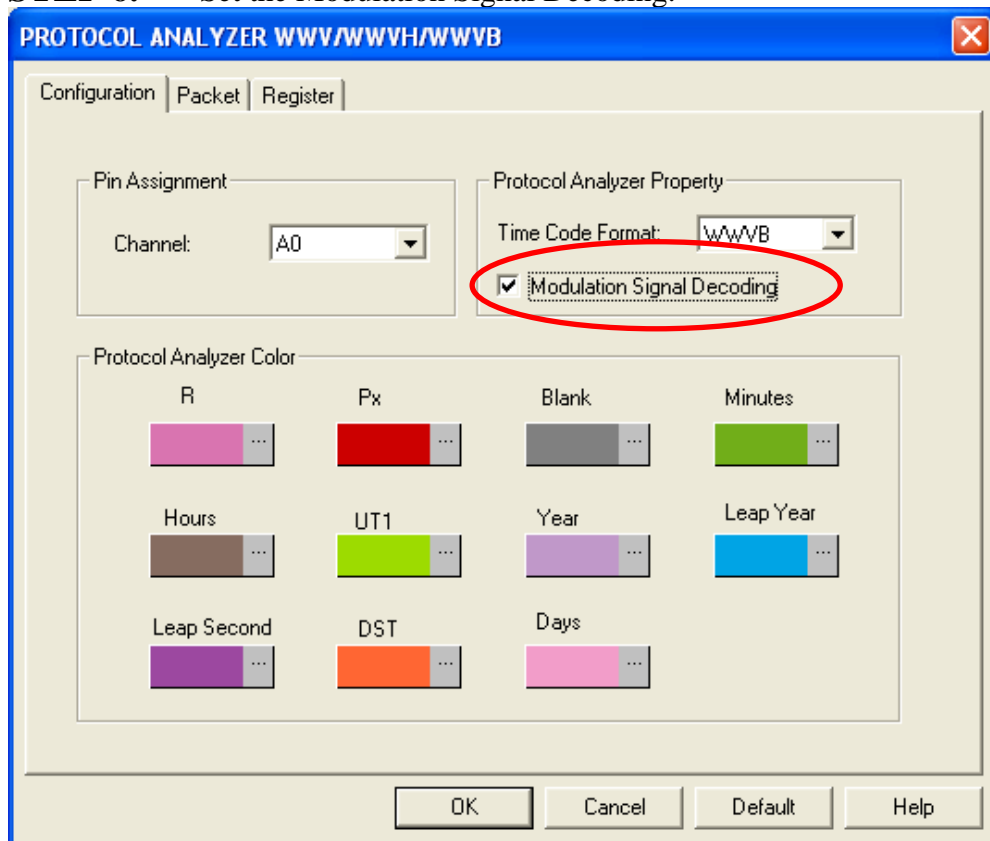




STEP 5. Set the Time Code Format as WWVB or WWV/WWVH.

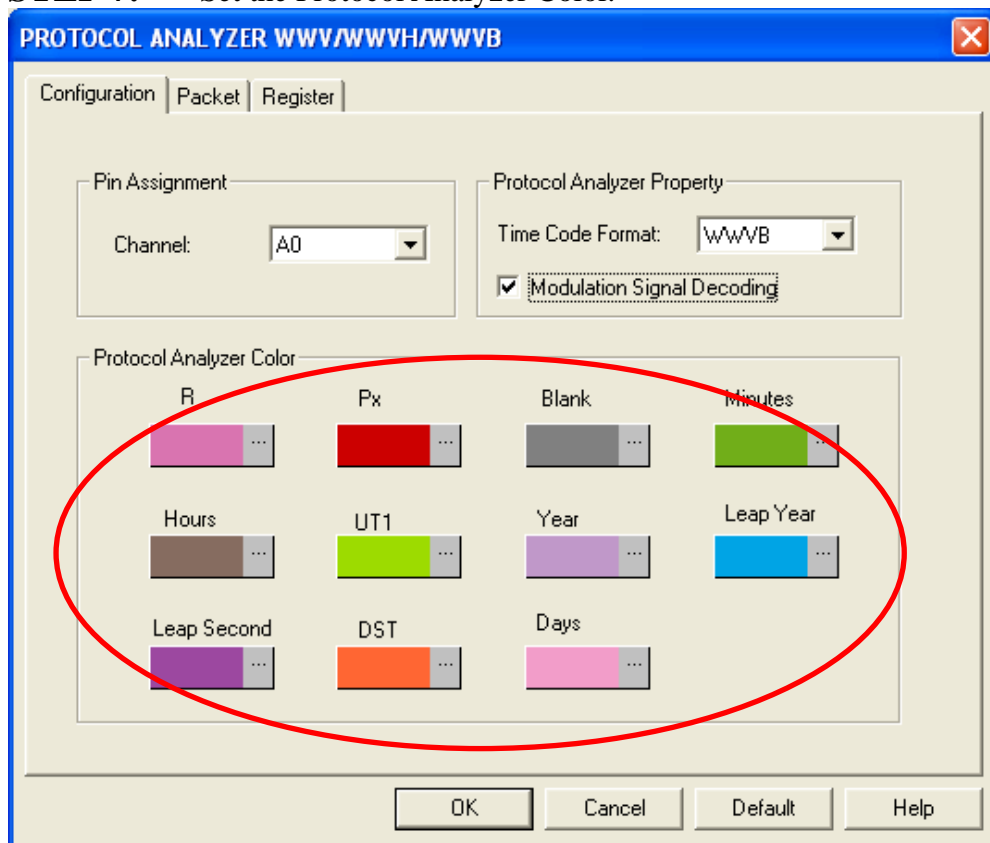


STEP 6. Set the Modulation Signal Decoding.





STEP 7. Set the Protocol Analyzer Color.

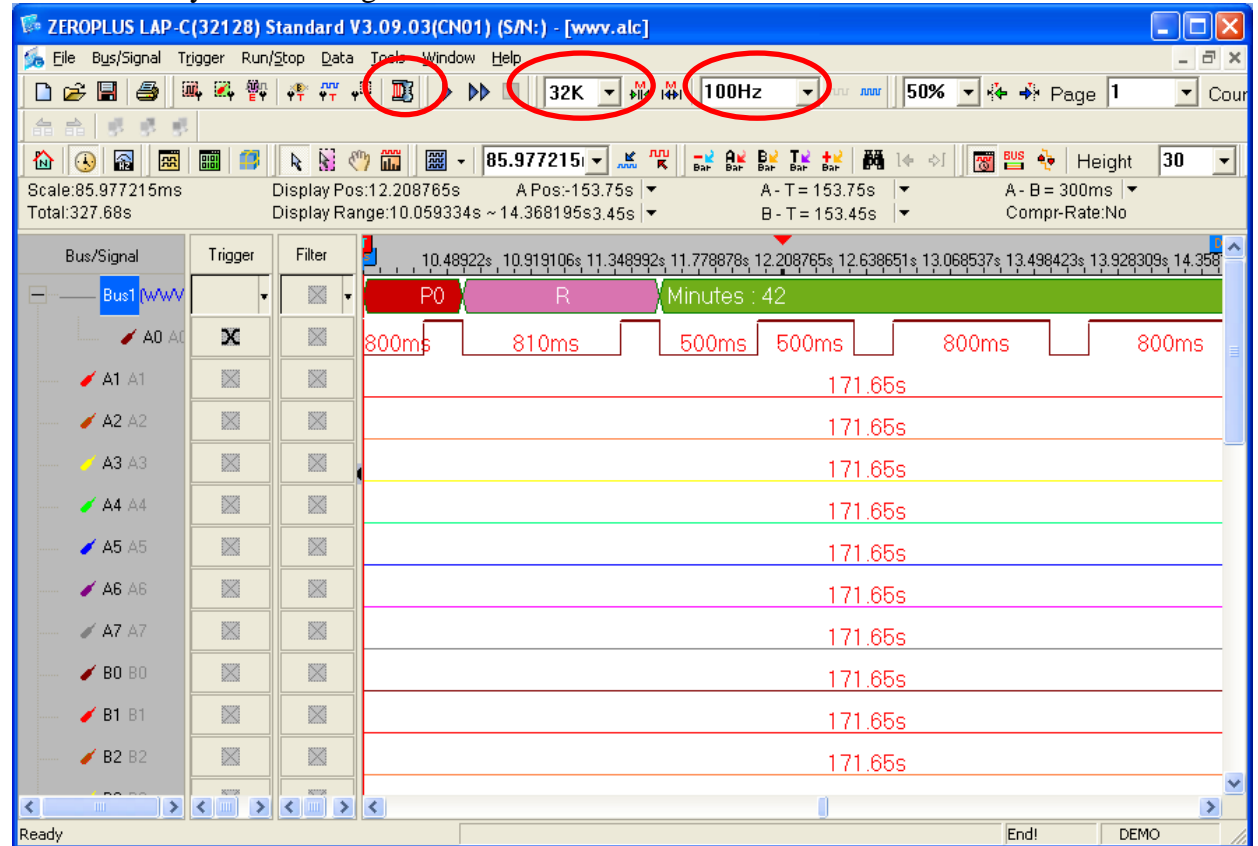




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STEP 8. Following pictures show the completion of the protocol analyzer decoding and packet list. The Compression is activated. And the memory depth is 32K; the sampling frequency is 100Hz (the sampling frequency should be more than ten times higher than the signal to be tested).

Protocol Analyzer Decoding





Packet List

