

# SPECIFICATION

**MODEL: 028-LAP-DMX512-M**

**PART NO:** \_\_\_\_\_

**VERSION:** V1.35

Approver		Check	Design
GM	PM		

Customer Confirm

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# Content

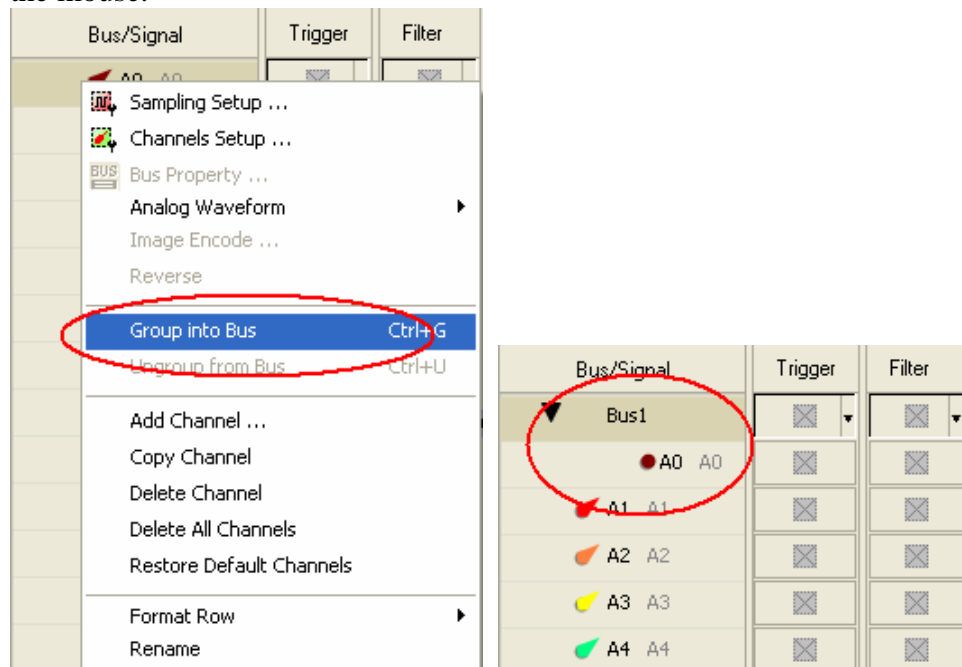
1.	Software Register .....	2
2.	User Interface .....	5
3.	Operating Instructions .....	8
4.	Function Description .....	14
	4.1 Image Encode .....	15
	4.1.1 Interface.....	17
	4.1.2 Operating Instructions.....	19

## 1. Software Register

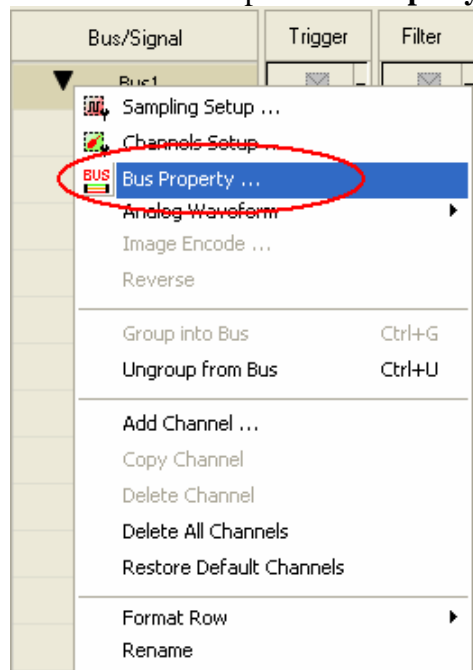
Please register the software as the following steps:

- ※ Remark1: The registration steps for all protocol analyzers are the same; you can complete the registration by following procedures. Following is an example on how to register the Protocol Analyzer BUS.
- ※ Remark2: 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.

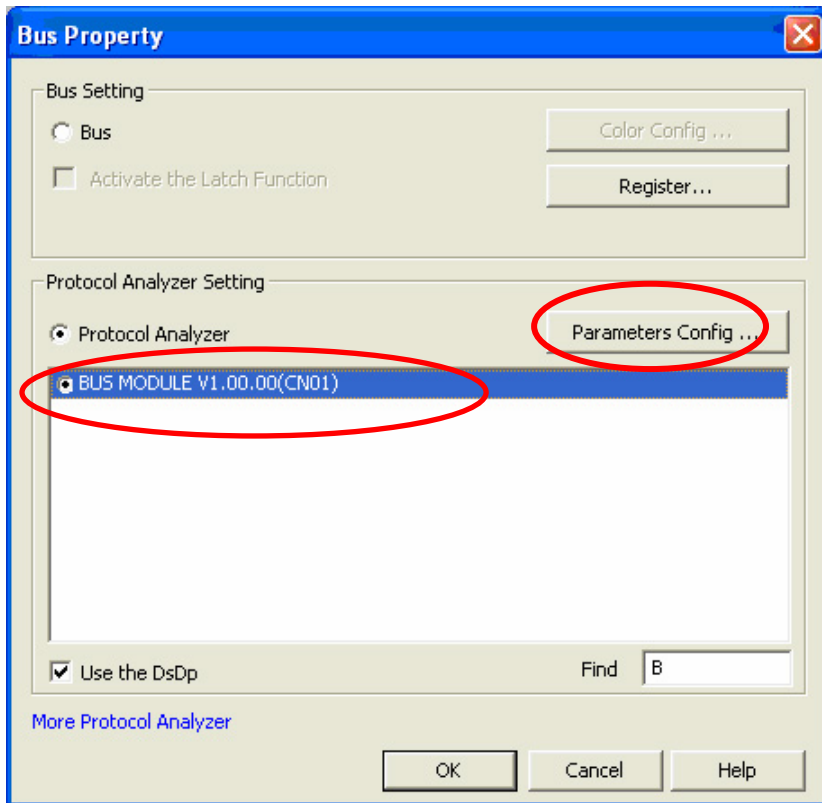
**STEP 1.** Open the Logic Analyzer and group the unanalyzed channels into **Bus1** by pressing the **Right Key** on the mouse.



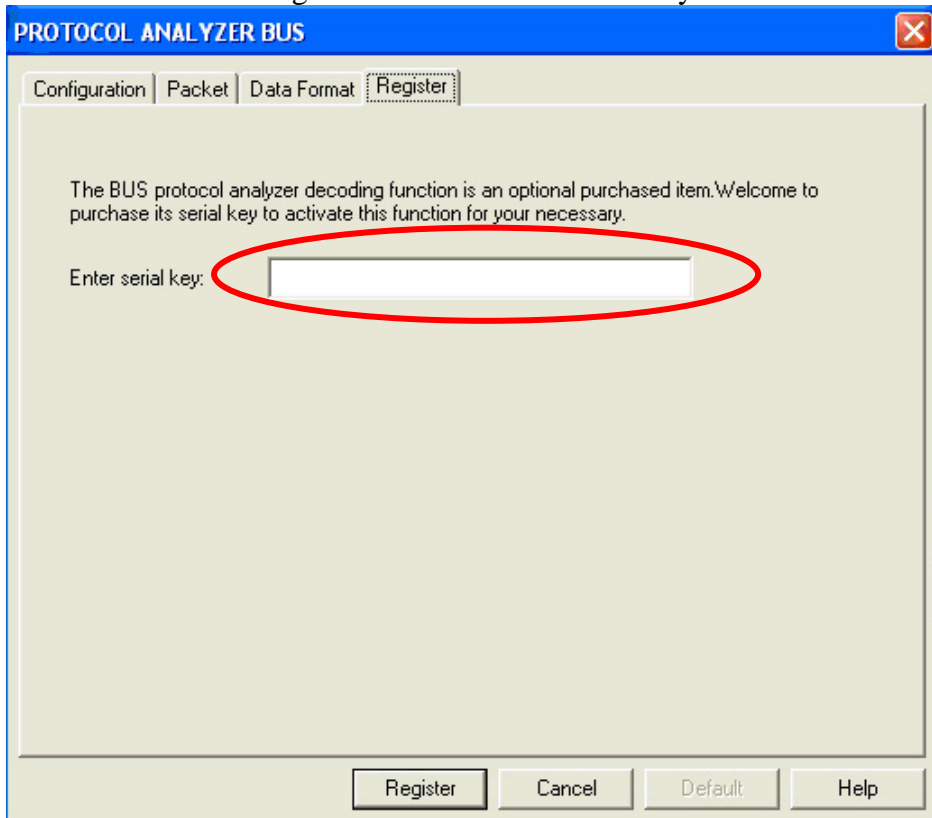
**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then click **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.



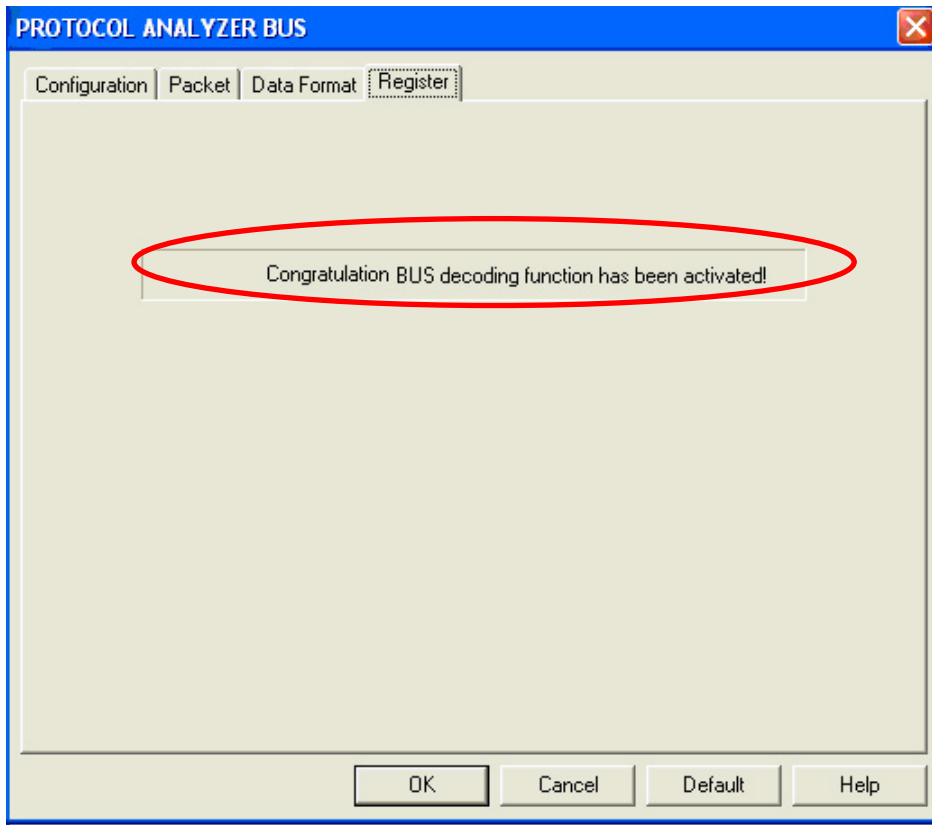
**STEP 3.** Select the Protocol Analyzer, and then choose **BUS MODULE V1.00.00 (CN01)**. Next click **Parameters Configuration** to open the Protocol Analyzer Bus dialog box.



**STEP 4.** Press the Register tab to enter the serial key of the **BUS**. Then click **Register**.



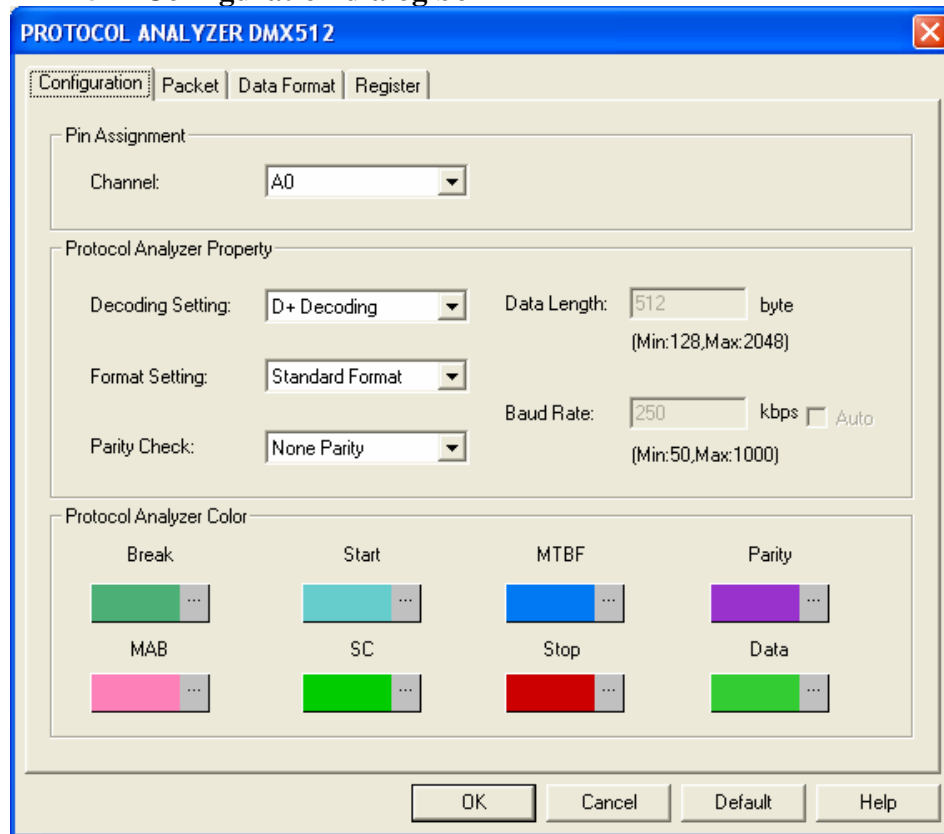
**STEP 5.** After pressing the Register button, the following dialog box will appear, it denotes that the BUS has been registered successfully.



## 2. User Interface

Please refer to images below to select options of setting **DMX512** module.

### DMX512 Configuration dialog box



#### Pin Assignment:

DMX512 only needs one channel to decode signal, and it is A0 by default.

#### Protocol Analyzer Property:

**Decoding Setting:** It can be set as D+ Decoding or D- Decoding. It is D+ Decoding by default.

**Format Setting:** It can be set as Standard Format or Extension Format. It is Standard Format by default.

**Parity Check:** It can be set as None Parity, Odd Parity or Even Parity and it is None Parity by default.

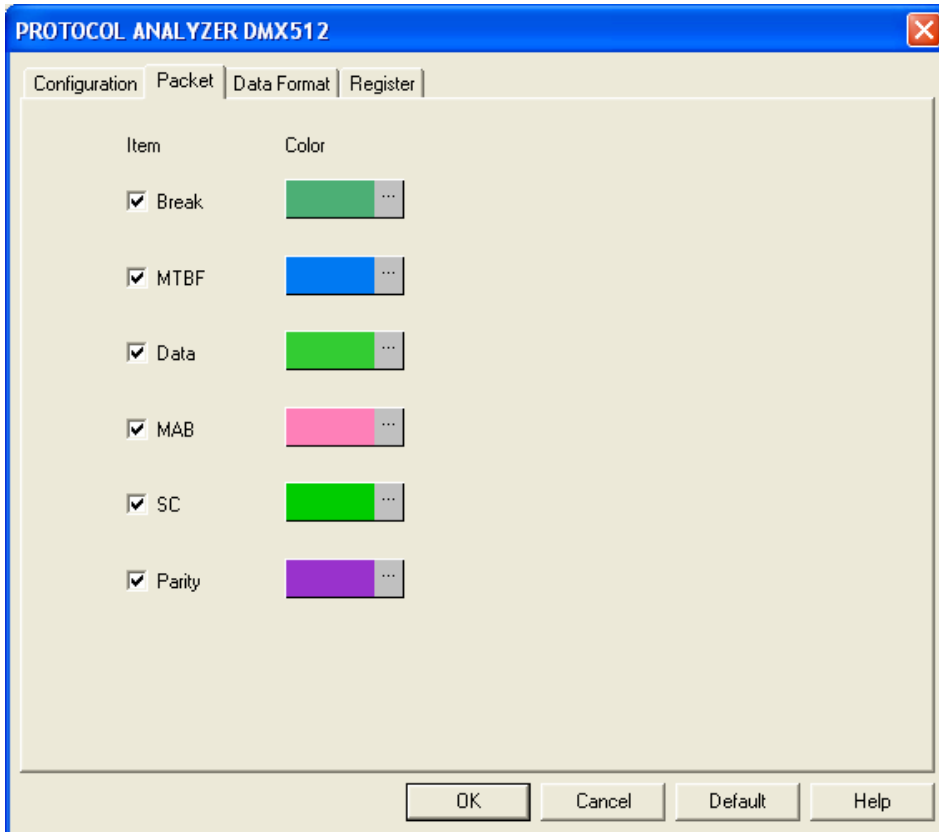
**Data Length:** It can be set in the range between 128 and 2048 byte in the Extension Format.

**Baud Rate:** It can be set in the range between 50kbps and 1000kbps in the Extension Format. When the option "Auto" is selected, the Baud Rate will be calculated automatically and can be judged and displayed on the Dialog Box by the Main Program.

#### Protocol Analyzer Color:

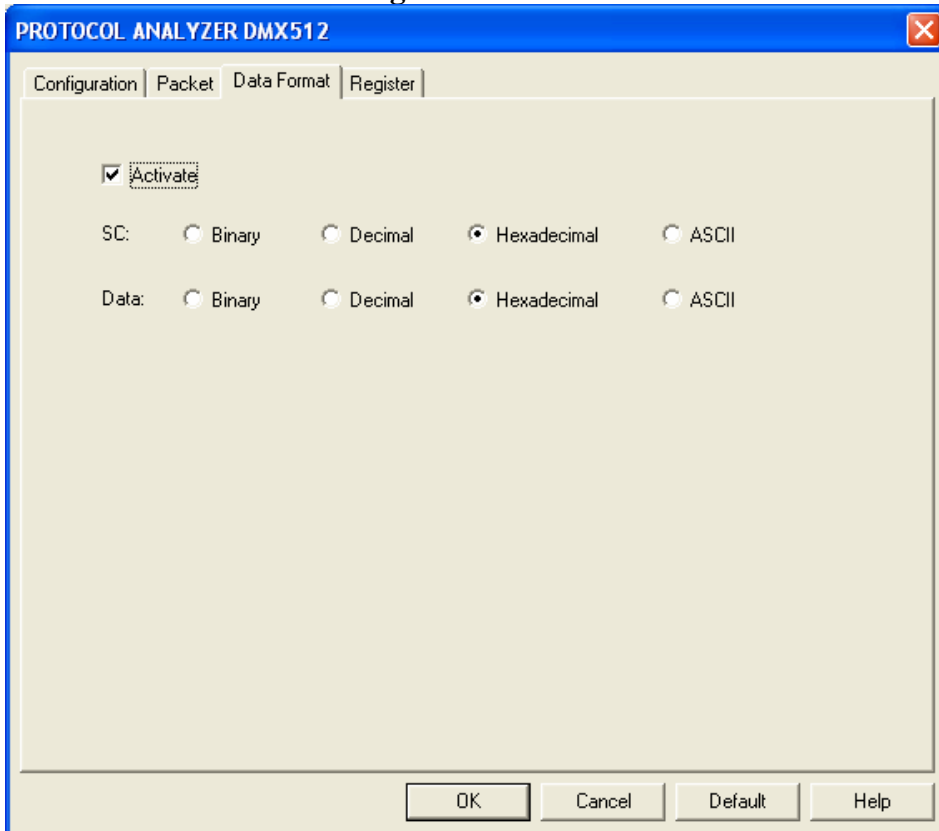
The color can be varied by users.

### DMX512 Packet dialog box



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

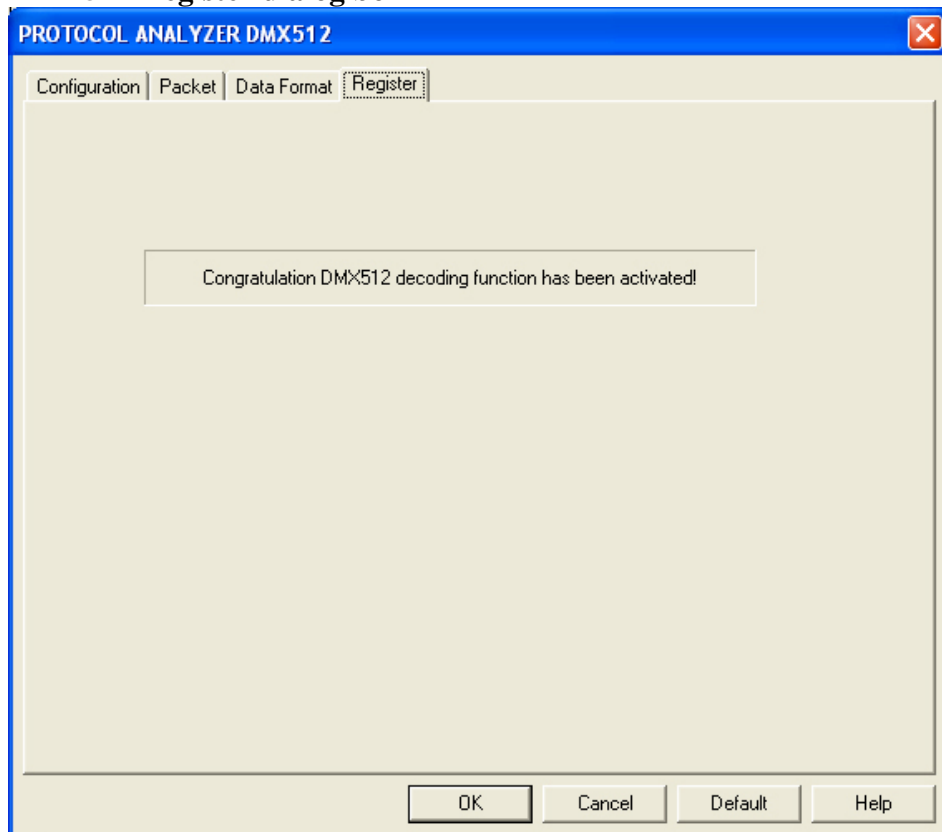
### DMX512 Data Format dialog box



Users can set the Data Format of the SC and Data as their requirements. When selecting the option “Activate”, the data format is decided by the settings in the Protocol Analyzer; when not selecting the option “Activate”, the data format is decided by the settings in the main program.

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## DMX512 Register dialog box

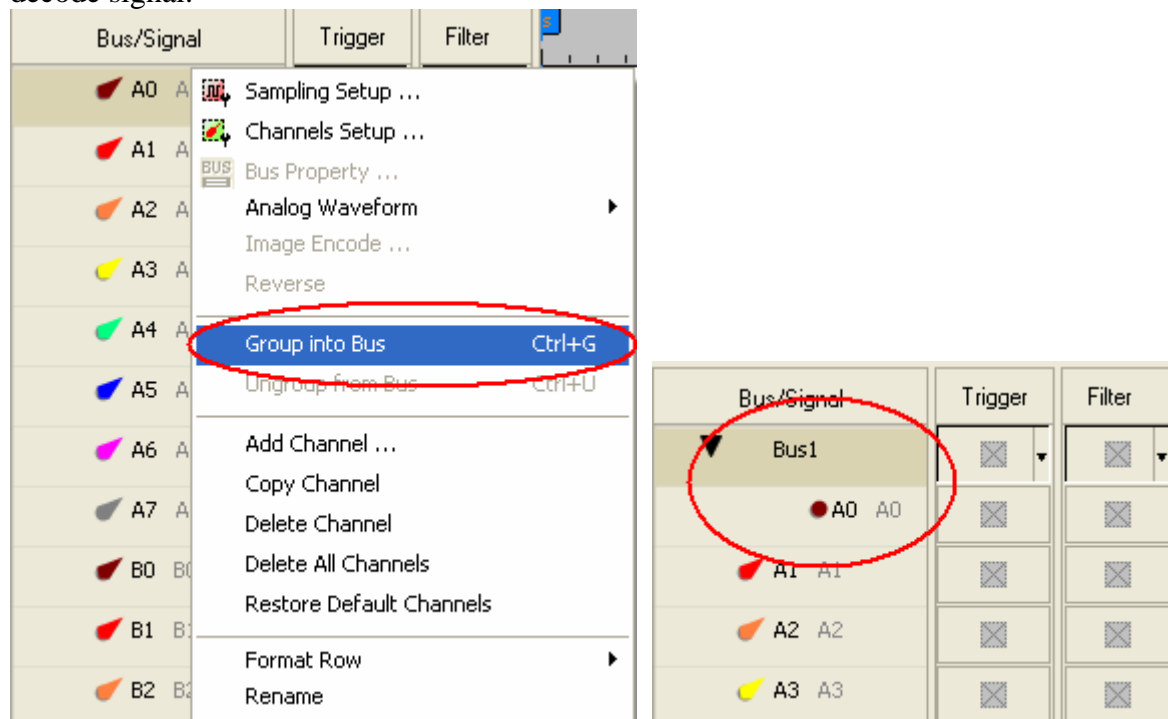


## 3. Operating Instructions

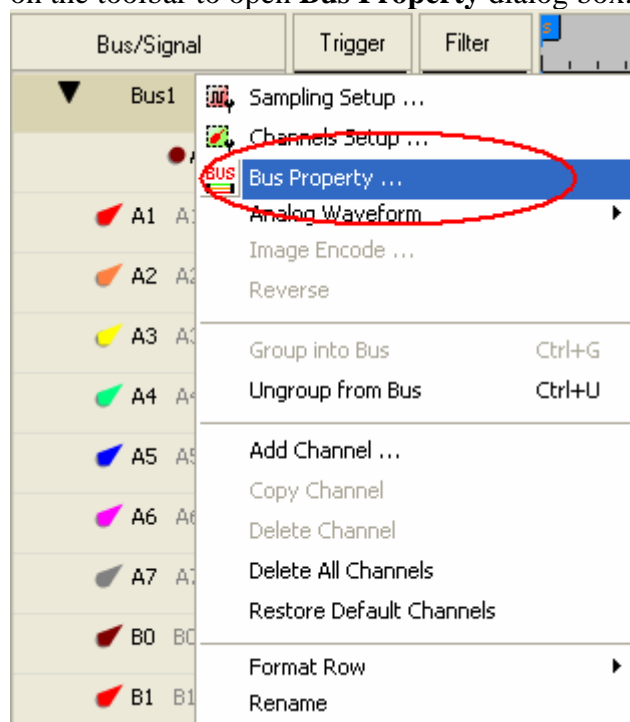
**STEP 1.** Group A0 into **Bus1** by pressing the **Right Key** on the mouse. **DMX512** only needs one channel to



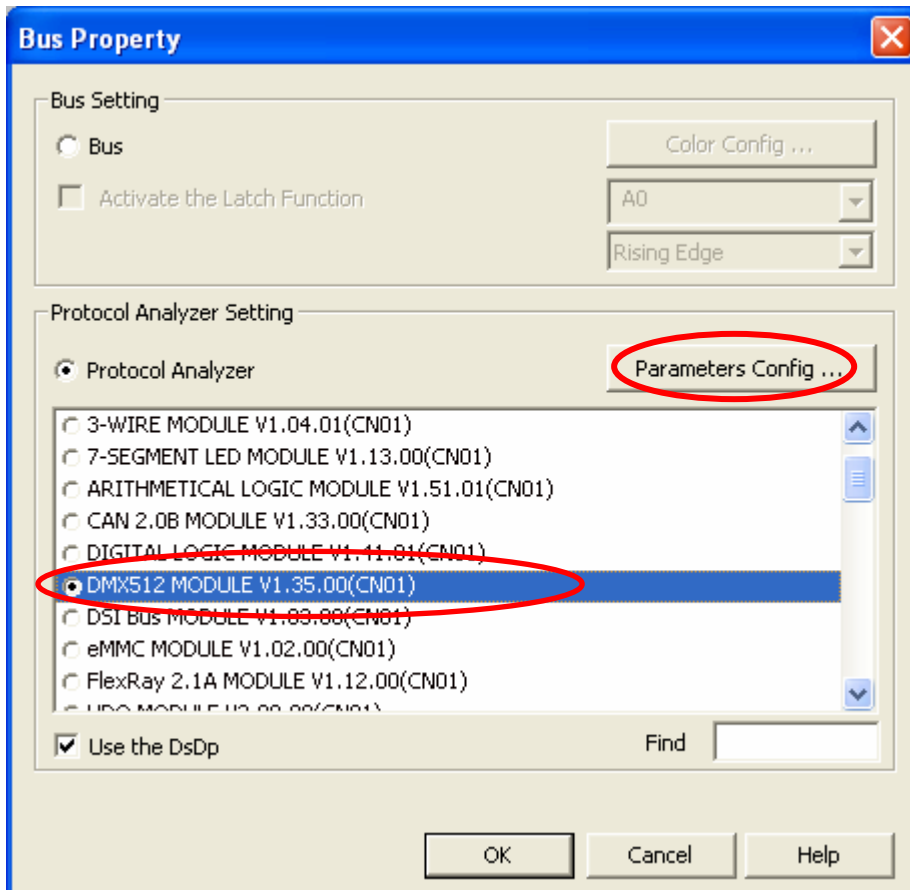
decode signal.



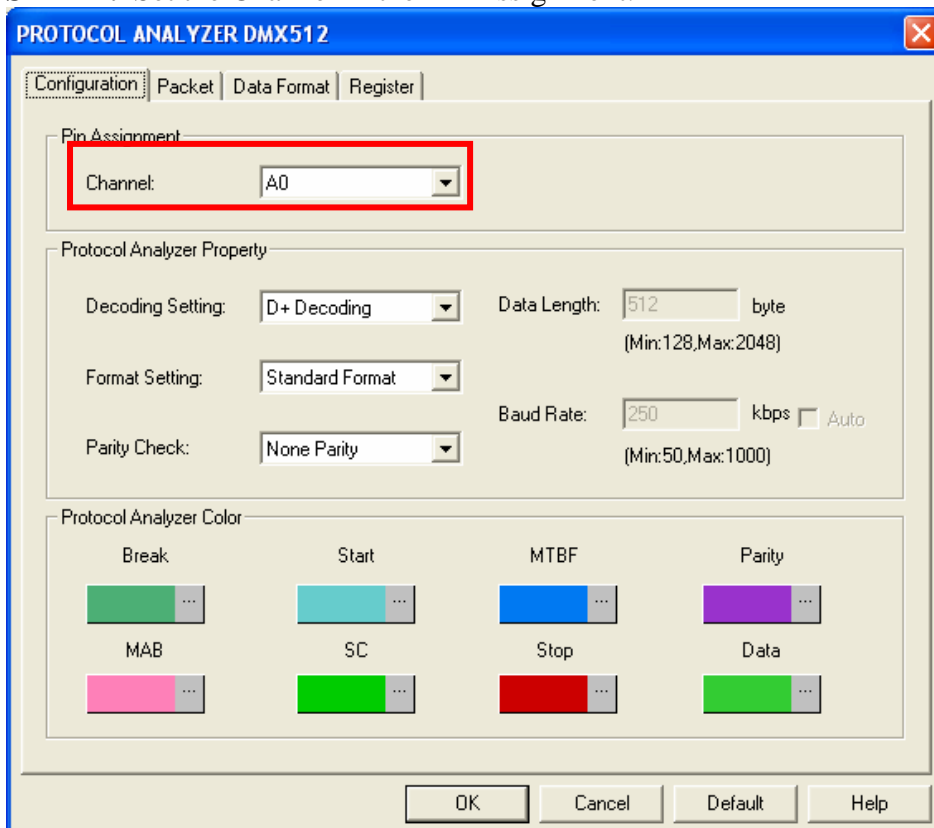
**STEP 2.** Select **Bus1**, and press **Right Key** on the mouse to list the menu, then click **Bus Property** or **Bus** icon on the toolbar to open **Bus Property** dialog box.



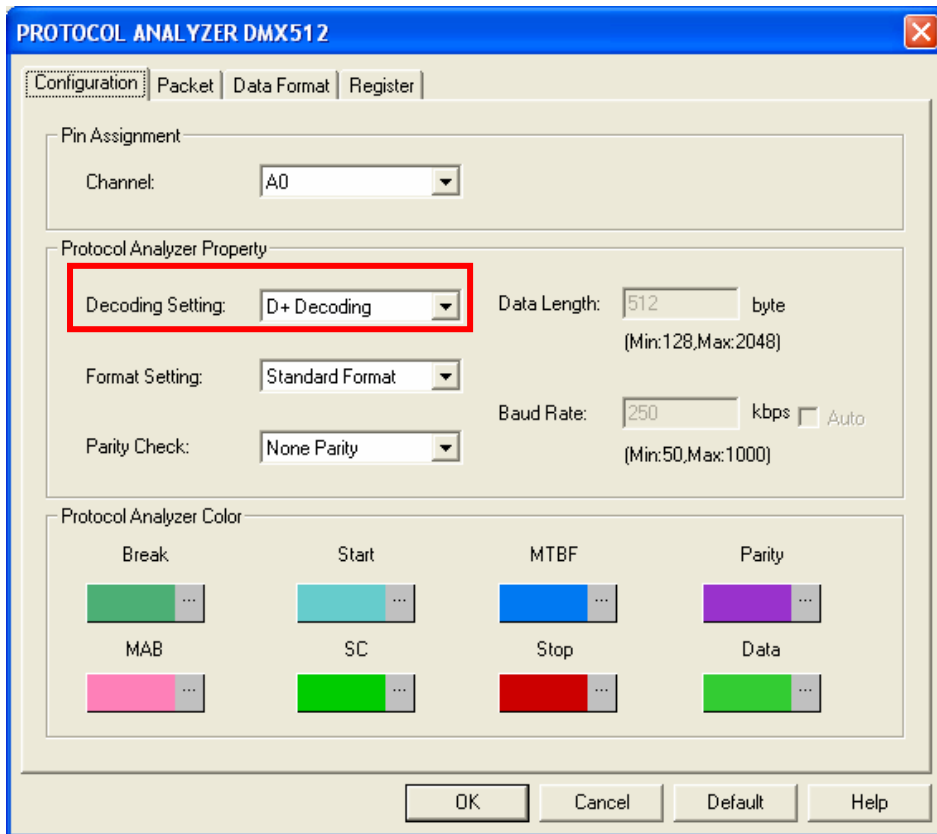
**STEP 3.** Select Protocol Analyzer, and select **DMX512 MODULE V1.35.00(CN01)**. Next click **Parameters Configuration** to open the **Configuration** dialog box.



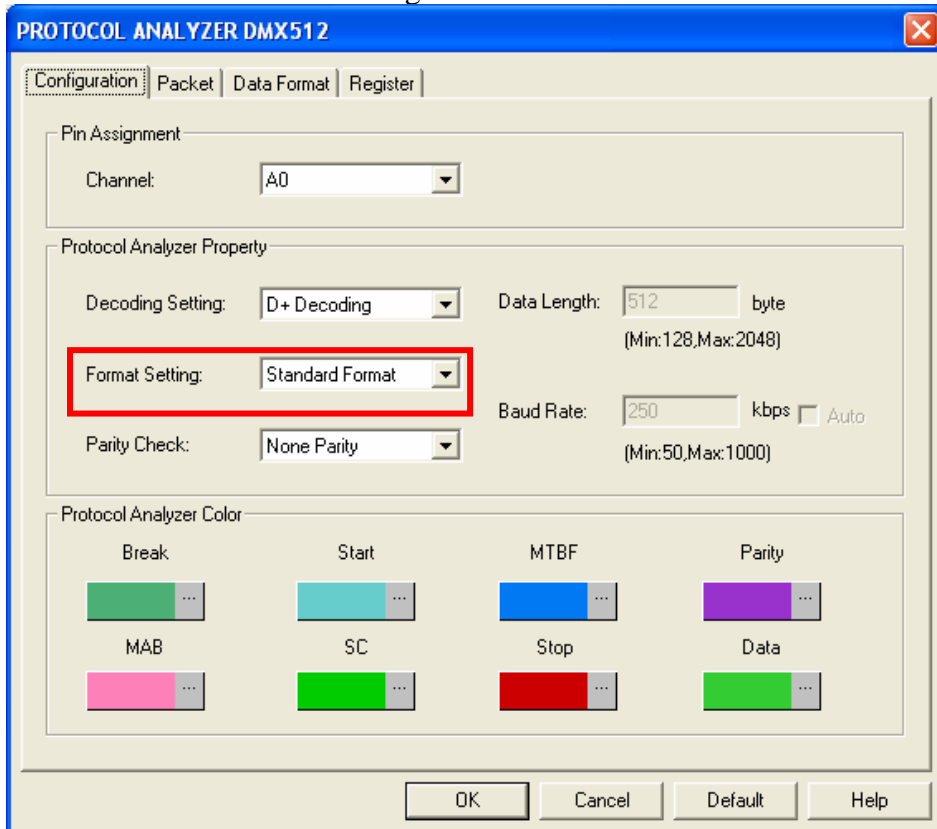
**STEP 4.** Set the Channel in the Pin Assignment.



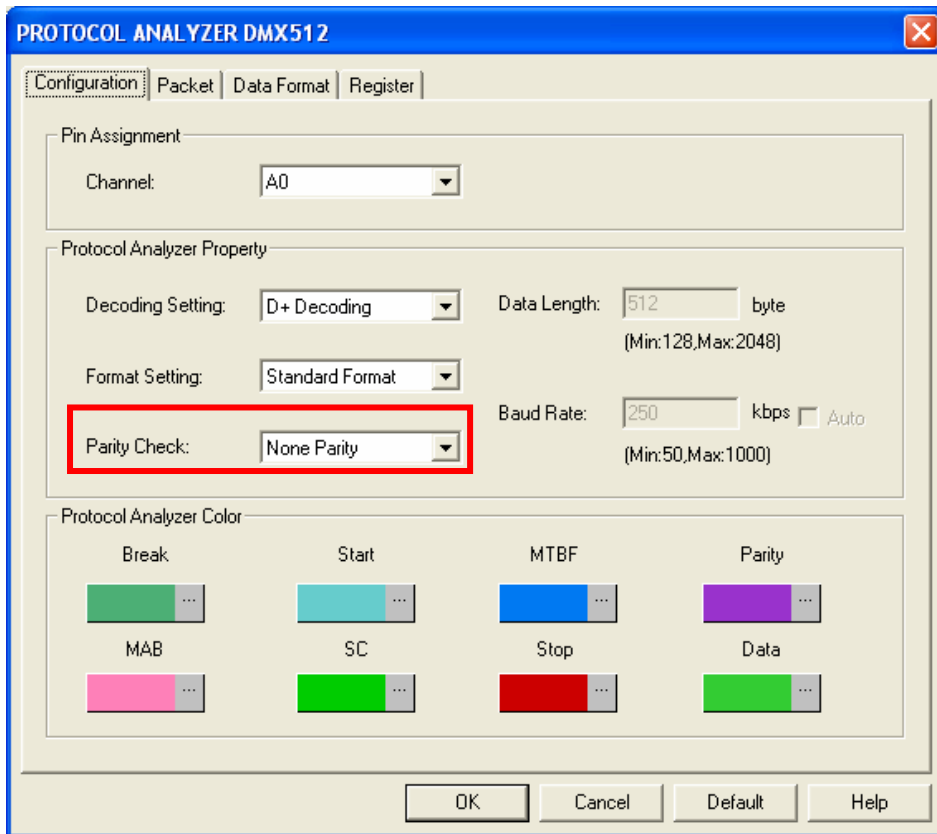
**STEP 5.** Set the Decoding Setting.



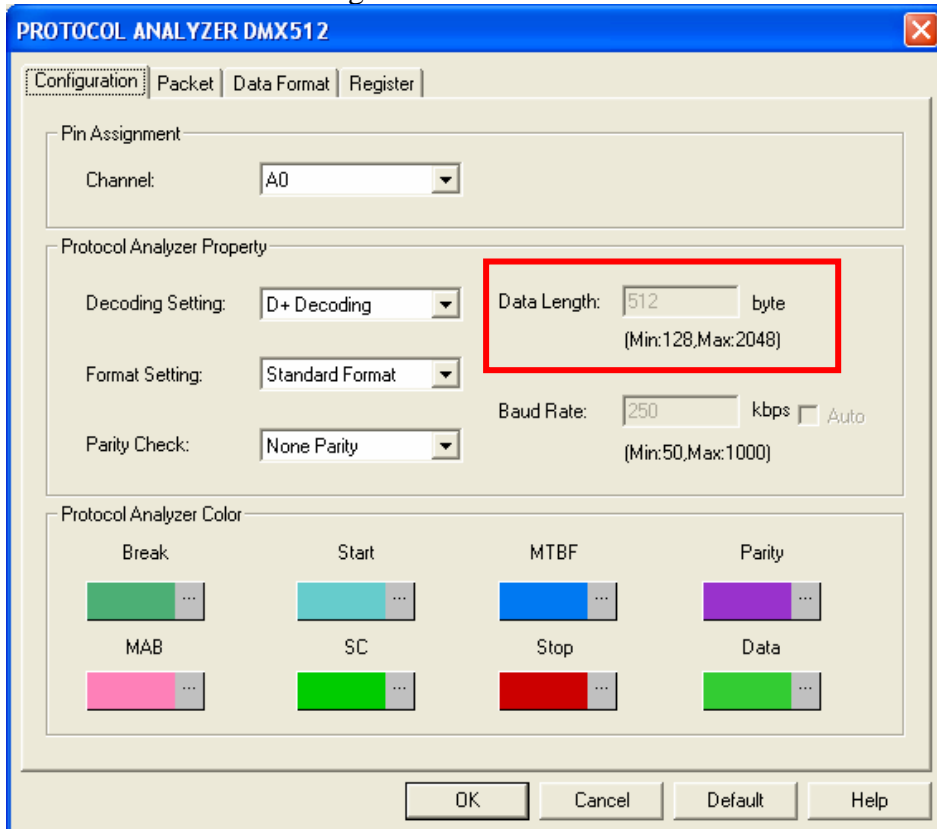
#### STEP 6. Set the Format Setting.



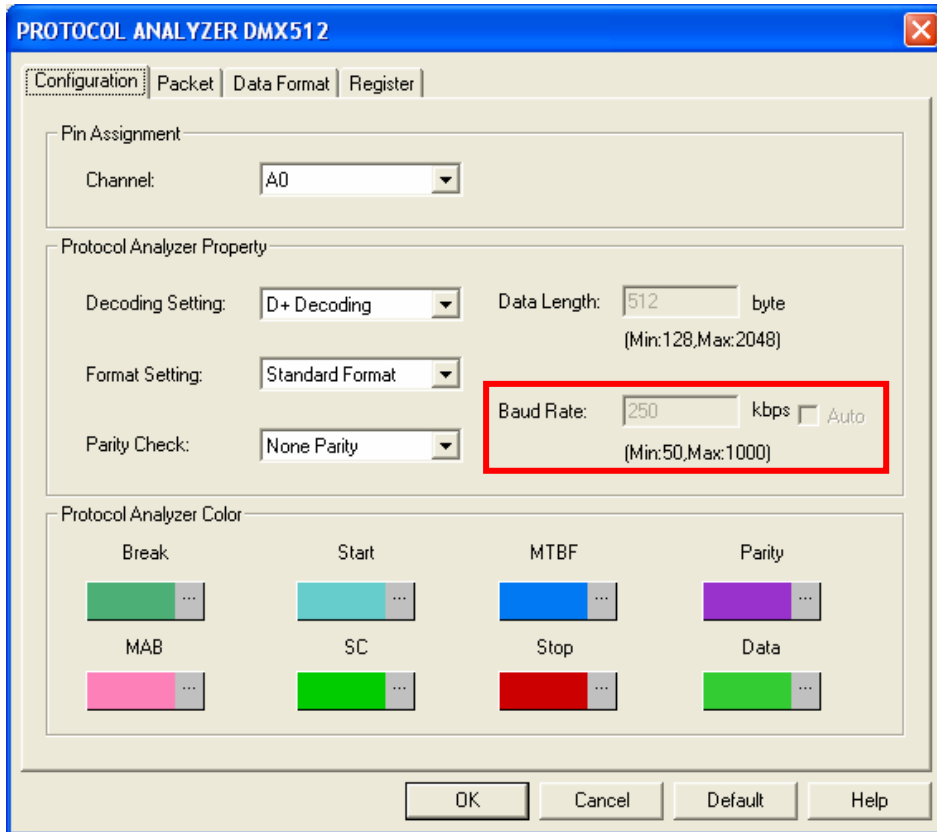
#### STEP 7. Set the Parity Check.



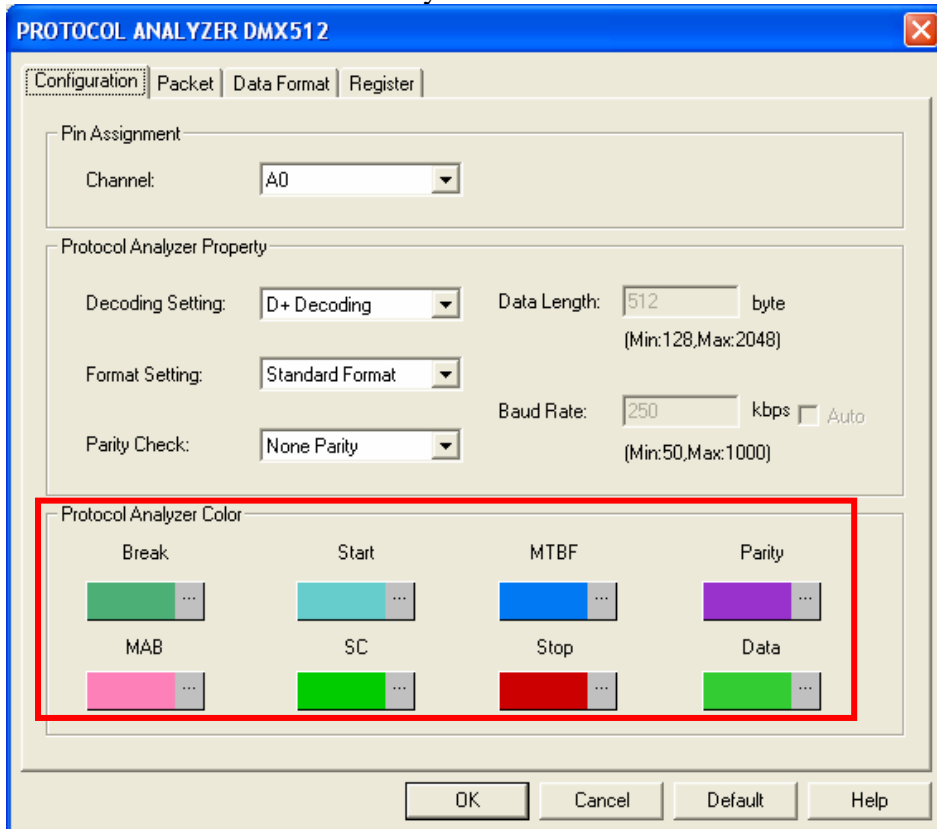
**STEP 8.** Set the Data Length.



**STEP 9.** Set the Baud Rate or select the option “Auto” to calculate the Baud Rate automatically.



**STEP 10.** Set the Protocol Analyzer Color.



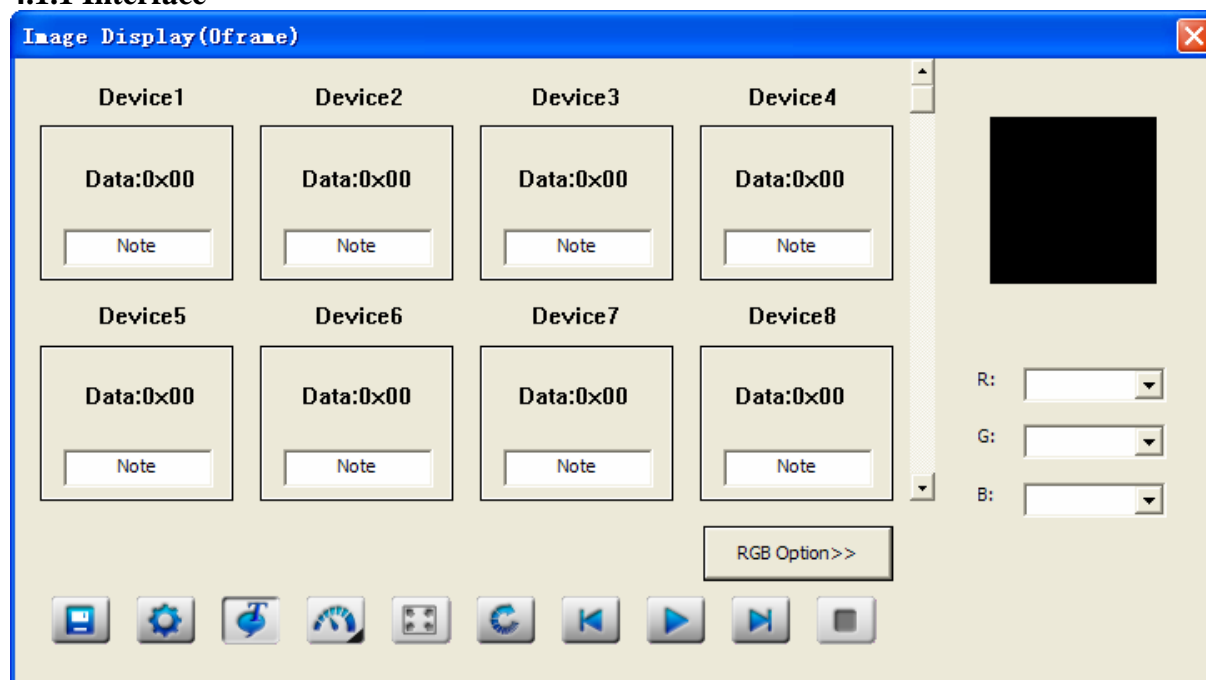
**STEP 11.** Following pictures show the completion of the protocol analyzer decoding and the packet list. The



## 4.1 Image Encode

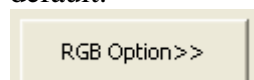
This function can decode the data format of protocol analyzer and display the decoded data in images. (Only LAP-A, LAP-C and smart+ are supported.)

### 4.1.1 Interface




**Device 1-8:** 8 devices are displayed by default. In case of more than 8 devices, images shall be made according to the device quantity counted from decoding of every frame of data, but this quantity is just for reference.

**Data:** The data of current device, or RGB value. Note box is for users to enter note; it is Note in that box by default.

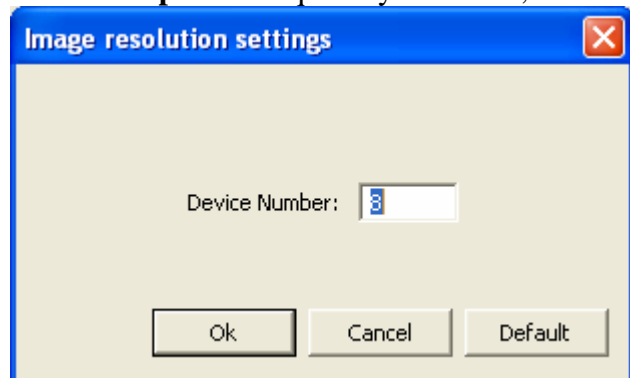



: Click this button to show or hide the options of RGB settings.

 **Capture:** Click this button to capture the picture in the display area and add the current title information (the current frame number); the file supports the formats of BMP, JPG and PNG, it is PNG by default.



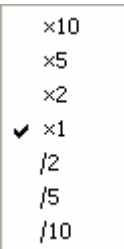
**Setup:** Set the quantity of device, which is 8 by default.



 **Display Amount:** Show the page number of current data on the right of title. It is activated by default.



**Play Speed:** Click it to select the play speed the below menu.



These speeds are in proportion with the time bit length of data. For example, x10 indicates the speed is 1/10 of the time bit length of data.



**Full Screen:** Show the display area in full screen; it is disabled when be gray.



**Loop:** Show the data repeatedly.



**Play/Pause:** Click the play button to play while it changes to the pause button, click the pause button to pause and display the current data while it changes to the play button.



**Stop:** Stop the playing.



: Show the previous data in default display mode, or move one grid rightward in moving display mode.



: Show the next data in default display mode, or move one grid leftward in moving display mode.

**R:** It is the device that be corresponding to Red; device can be selected from the pulldown menu. It is not selected by default and can't be selected during playing continuously.

**G:** It is the device that be corresponding to Green; device can be selected from the pulldown menu. It is not selected by default and can't be selected during playing continuously.

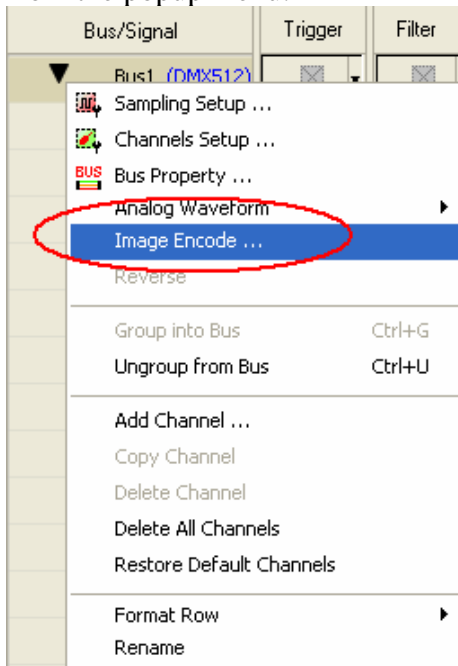
**B:** It is the device that be corresponding to Blue; device can be selected from the pulldown menu. It is not selected by default and can't be selected during playing continuously.

**Color Area:** Show the color produced by RGB, which will change along with the change of data of each frame during playing continuously.

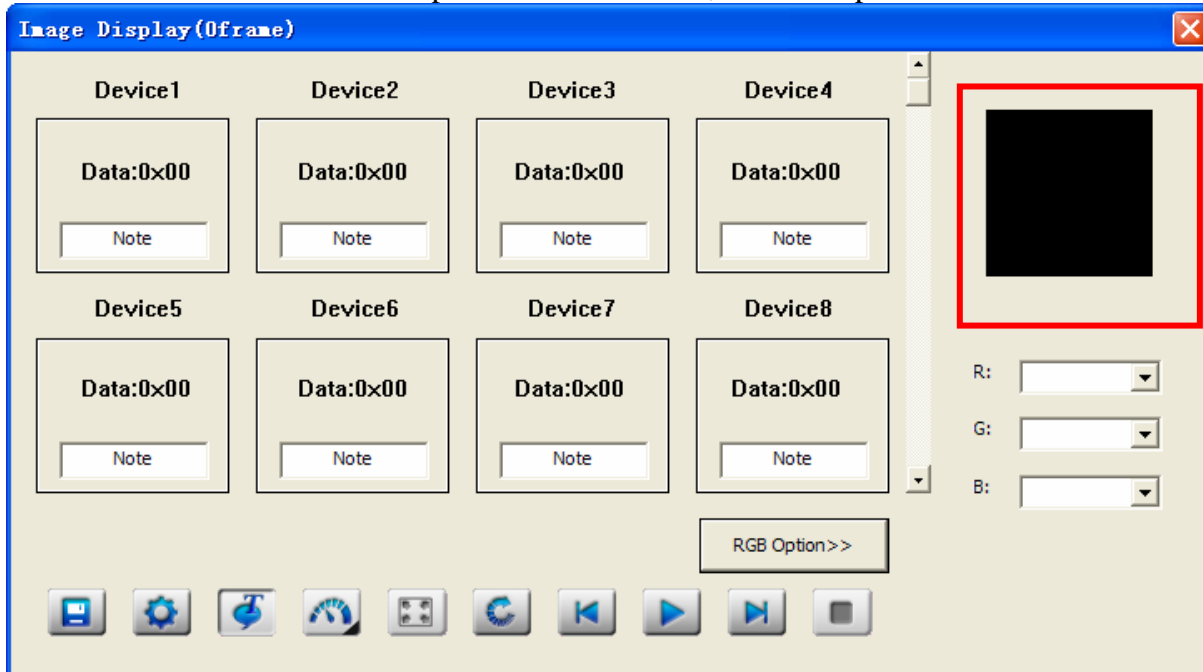


## 4.1.2 Operating Instructions

**STEP 1.** After decoding finished, press right key on the Bus name (Bus(DMX512)) and select the Image Encode from the popup menu.



**STEP 2.** Select devices from the pulldown menus of R, G and B options.



**STEP 3.** After the Play button is clicked, the Color Area will show the color produced by the data of each frame.

