Partial Manual HDL-MD512 DMX.232

Configuration

(based on HDL producer documents)

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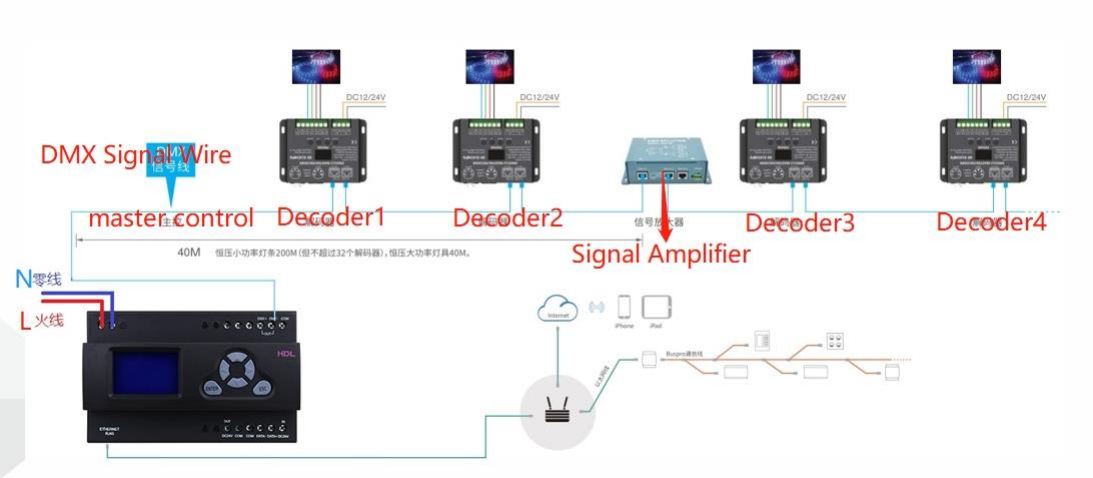
1. Here is the control architecture diagram of HDL DMX512 scene controller



2. The cable and wiring

A. It is recommended to use Cat 5 network cable, Cat 7 network cable or optical fiber to ensure effective signal transmission. Commonly used Cat 5 network cable;

B. DMX wiring should be separated from other strong and weak current, and should be wired in separate casing to avoid interference from other signals;

C. At the end of the entire DMX line, a 120 ohm signal terminator should be connected to DMX output's DMX+ and DMX-(generally, the tenth bit of the decoder can be pulled down);

D. The dial code of DMX decoder is usually binary (mainly in the form of dial switch), and there are also digital tube display (decimal);

E. The signal transmission mode of DMX512 output is RS485 differential signal transmission. The ideal transmission distance is 200m, which is about 30-40m in ordinary applications. If the distance from DMX512 to the decoder is longer than 40m, we suggest you add one DMX signal amplifier. And if the DMX decoders are more than 32, please also add one dmx signal amplifier.

3. Configuration

Because if DMX512 is connected to the Buspro port for communication, and there are 512 circuits need to be edited, the amount of control and feedback data is too large, and the editing is very slow, so only network communication is available.

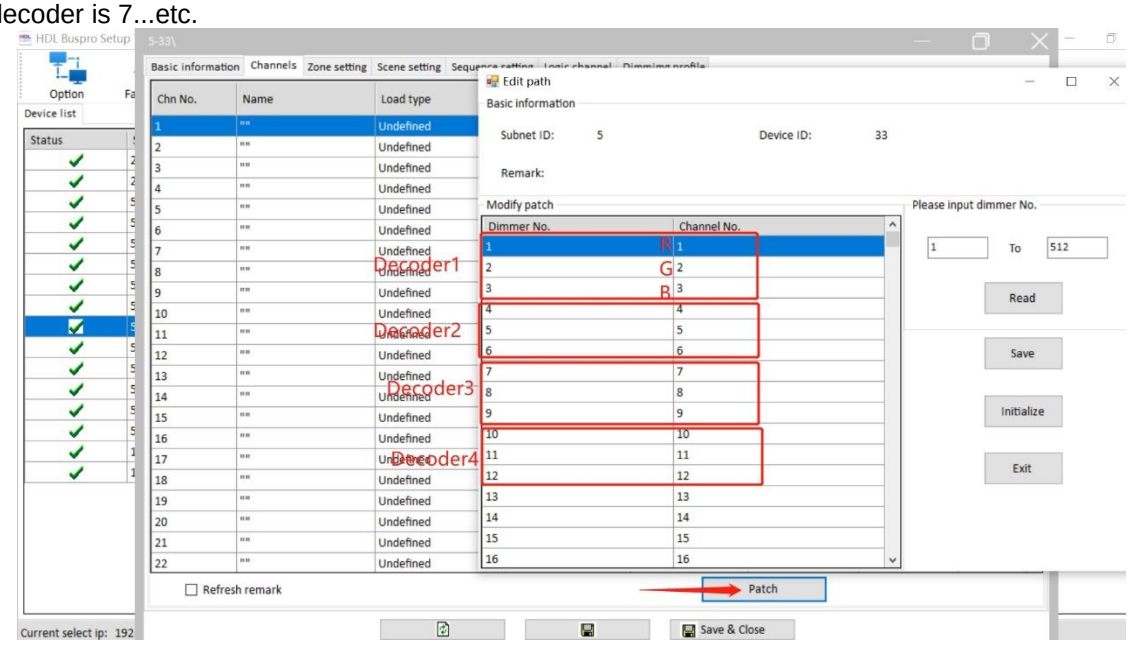
To debug the DMX512:

A) Press the ENTER+ESC button at the same time to unlock, universal password is 4573, press enter to check the current IP address of DMX512. If the language is Chinese, refer to attached video to change to English. Modify PC to same network segment as DMX512's or change DMX512's IP from the LCD screen. Then press the UP+Down+Left+Right buttons at the same time to reboot it.

B) Connect PC and DMX512 to same network, Buspro software can online search the DMX512 out.

b1) Initialize the patch list then save in DMX512 channel interface. The decoder dial address should be the matched as the address of the patch list.

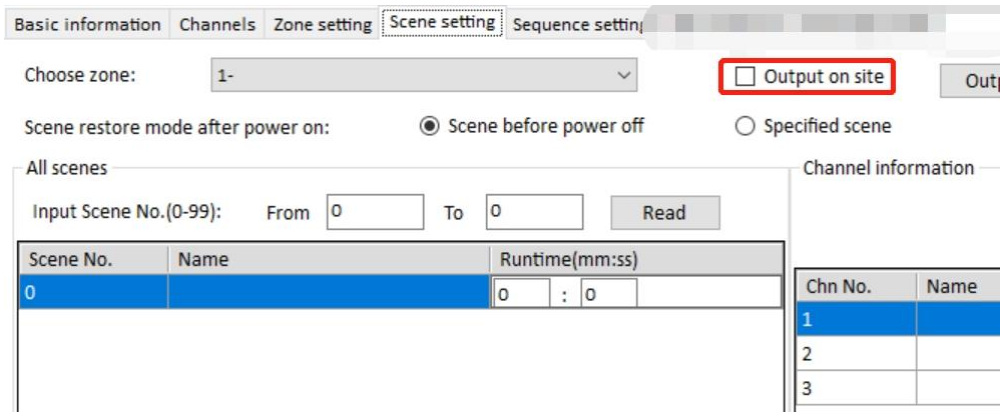
For example, the load is RGB light, the first decoder address is 1, 2nd decoder address is 4, 3rd decoder is 7...etc.



After initializing patch list, the RGB circuit corresponds to 1, 2, and 3. Then directly test turning on/off those circuits. After confirming the circuit, assign them to the zone, and configure them to the scene. After you finish the configuration, if you want to connect DMX512 to Buspro port, remove the Lan cable, Buspro software will not online find it out any more. Modify to the subnet ID of DMX512 same as the IP gateway from DMX512 LCD screen, only connect DMX512 to Buspro port. In panel, configure button to control DMX512, it still can be controlled.

For the RGBW light, Assign the address 1, 5, 9, 13 for those decoders.

Note1: After the test, please do not forget to uncheck the "output on site option" in scene interface.



Note2: We can only control the maximum channel number 240 for single channel control. For the remaining channels, please configure to the scene.