

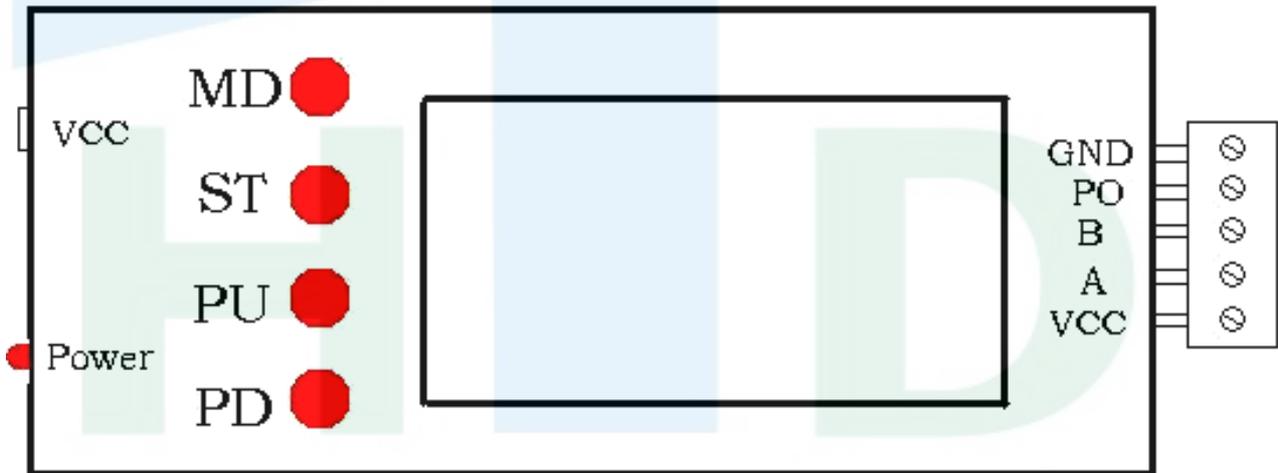
# DMX512 Use manual-HTDLED

## 1. Function Brief

This encoder is DC12-24V Input, Support TM512 series chip write code and test operation. Support continuous address write code, Interval address write code and written code well later to test all lamp, can be one-time continuous write code for 4096 channels, such as when chip select the 3 channel, you can one-time on the 1365 chips continuous to write code.

**Special note:** After the success of the code written, please completely cut off the lights (including communication lines) and then re power, then the new code address can be effective.

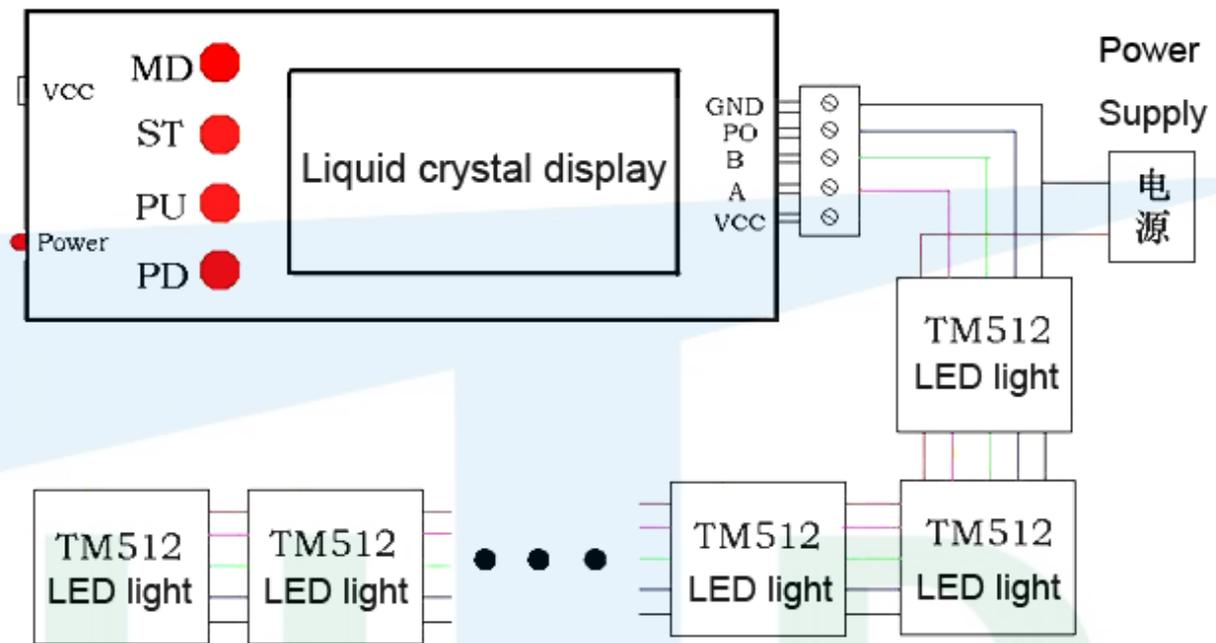
## 2. External view



| Symbol       |       | Item                  | Instructions  |
|--------------|-------|-----------------------|---|
| Power        | VCC   | Input                 | DC12~24V  |
|              | Power | Power light           | Lit up when power supply is normal working                              |
|              | GND   | Power GND             | Common-Ground with lamp   |
| Signal wires | A     | Parallel Split A line | Connect light A line  |
|              | B     | Parallel Split B line | Connect light B line  |
|              | PO    | Write code output     | Write code output, connect PI line                                      |
| Buttons      | ST    | Write code button     | After write code parameters Settings OK press this button to write code |
|              | MD    | Model button          | Long press to enter test mode   |
|              | PU    | UP + Button           | Support long press on quickly +   |
|              | PD    | DOWN - Button         | Support long press on quickly -   |

### 3. Encoder operation

#### (Step 1). Wiring



#### (Step 2). Write code set up

Encoder start on electricity defaults to write code or test Settings, short press the MD option to set items and order item by item setting, the following table:

| Step | Encoder display     | Instructions                | Operation   | Operation range  |
|------|---------------------|-----------------------------|---|--|
| 1    | STRT CH.<br>0001    | Initial channel address Set | Use PU or PD key make numerical add and subtract, support long press to quickly add and subtract. | ①3 channel model: 0001~4094<br>②4 channel model: 0001~4093<br>③2 channel model: 0001~4095<br>④single channel model: 0001~4096  |
| 2    | CH. MODE<br>R, G, B | Lamps channel mode set      | Use PU or PD key make numerical add and subtract  | ①R, G, B : 3 channel model<br>②R, G, B, W: 4 channel model<br>③RG, BW : 2 channel model<br>④RGBW : single channel model        |
| 3    | INT NUM<br>0000     | Channel interval set        | Use PU or PD key make numerical add and subtract, support long press to quickly add and subtract. | Biggest cannot exceed 4096 - (starting channel number + channel model number - 1), 0000 for continuous writing code.           |
| 4    | NUMBER<br>0170      | The number of pixels to set |   | The maximum pixel points cannot exceed 4096 - (starting channel number - 1)/(channel model number + interrupt channel number). |

**Note:** The above Settings will be need saved, the next time the when start on electricity automatically get the set of content; Block in the process of operation, if shows "EEPROM ERROR", says the encoder set store/read is abnormal, this set will not be saved or the read failure, all set back to the initial numerical value.

### (Step 3). Starts write code

After completion all sets in the above table, press the "ST" button to start Writing code, in the process of Writing code display "Writing Addr..", all of the lights bright white light. when write code completion the written code successfully light will to be blue light, the Writing code editor will shows "Whiting OK!"

### (Step 4). Lamps test

After completion write code, first step is cut off power for all lights (including communication signal line) then connect the electricity anew, long press the MD to enter test mode, this moment the write code editor in accordance with the above written code set parameters (channel model, the number of pixels) send pattern data, it is used to judge whether the lamps to write code normal or test right and wrong. This encoder built-in six test patterns, short press the MD to select, figure(Pattern) description as follows:

| NO. | Display        | Instructions                       | Operation   | Instructions   |
|-----|----------------|------------------------------------|---|--|
| 1   | SCAN<br>0001   | Auto channel scan step by step     | —   | Lamps lit by channel step by step, all lit up, one by one put out again, so cycle do it. |
| 2   | T-Scan 0000    | Manually channel scan step by step | Use PU or PD key make numerical add and subtract, support long press to quickly add and subtract. | Maximum: the number of pixels to * (channel model number + interval number)              |
| 3   | CHANGE<br>R    | Automatic jump                     | —   | ①3 channel model: R、G、B、RGB<br>②4 channel model: R、G、B、W、RGBW                            |
| 4   | S CHANGE<br>R  | Manually jump                      | Use PU or PD key to choose color  | ③2 channel model: R、B、RGBW<br>④ single channel model: RGBW                               |
| 5   | STEP-W<br>0000 | Automatic gray scanning            | —   | All channels of grey value increased from 0 to 255, by 255 to 0, so cycle                |
| 6   | Gray<br>0000   | Manual gray scanning               | Use PU or PD key make numerical add and subtract, support long press to quickly add and subtract. | Grey value: 0~255  |

**Note:** if you need to test without having to write code, skip the "step 3" can, after completion of testing long press MD returned to writing code.

HTDLED/OWN

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