

NTDMX-SR-2108B-M5-3/-5

| Project : | Date : |
|------------|--------|
| Cat. No. : | Type : |
| Notes: | Volts: |

8 OR 16 BITS ULTRA PRO 5 CHANNEL RDM DMX512 MASTER OR DECODER 3 PINS OR 5 PINS

Product Data

| Input Voltage | Output Current | Output Power | Remarks | Size(LxWxH) |
|------------------|-------------------|-----------------|------------------|-------------|
| 12-24VDC | 5x8A | 5x(96-192)W | Constant voltage | 164x73x38mm |

- · Master & decoder mode, RDM function
- Metal housing, digital display to show data directly, easily to set and show DMX address.
- With multiple kinds of DMX in/out ports: RJ 45, XLR, normal screws.
- Total 5 PWM output channels, common anode. DMX channel quantity from 1CH~5CH settable
- PWM output resolution ratio 8bit , 16bit settable.
- Output PWM frequency from 500HZ ~ 30K HZ settable.
- Output dimming curve gamma value from 0.1 ~ 9.9 settable.
- Decoding mode settable.
- Galvanic isolation

Operation

Before you do other settings, please set the device to be Master or Decoder mode.

ר יו ח ו = DMX Decoder mode , ר יו ח ב = DMX Master mode(stand alone).

Keep on clicking Down button, to get run1 or run2, then click Enter, then click Down button to choose 1 or 2, then click Back button.

After choose run1 or run2, please power off and power on again the device.

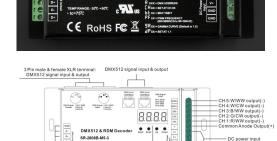
I. For run2 DMX Master mode: After power on the device, if keep on clicking Up button, you will find below menu on display:

Means brightness for each output PWM channel. First 1 means PWM output channel 1 and it is selectable from 1 to 5 by clicking "UP" or "Down" button. Second 01 means brightness level, click "Enter" button, the display flashes, then click "UP" or "Down" button to select from 00-99-FL, which means 0%-99%-100% brightness, then click "Back" button to confirm.



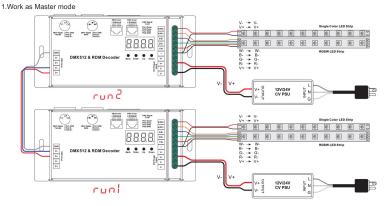


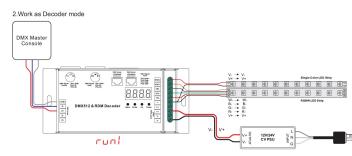












2 groups Plug in type terminal:

Natech Industrie



| LEDTHINKX® | NIDWX-5R-2108B-W5-3/-5 |
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| XXX Means programs , total 1~31 programs. | |
| ☐ XX Means RGB running effect's brightness, total 1~8 levels bright | ness |
| 5 P - X Means effect play speed, total 1~9 levels speed. | |

P-XX means RGB color changing modes, total 31 programs:

- 00- RGB off
- 01- Static red
- 02- Static green
- 03- Static blue
- 04- Static yellow (50% red+50% green)
- 05- Static orange (75% red+25% green)
- 06- Static cyan (50% green+50% blue)
- 07- Static purple (50% blue+50% red)
- 08- Static white (100% red+100% green+100% blue)
- 09- Any two colors of RGB mix fade, changing diagram as follow:



10- RGB colors mix fade, changing diagram as follow:



11- RGB FADE OUT & FADE IN, changing diagram as follow:



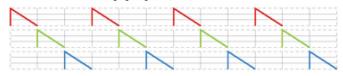
12- RGB jump changing, changing diagram as follow:



13- RGB FADE IN, changing diagram as follow:



14- RGB FADE OUT, changing diagram as follow:



- 15- RGB 3 colors strobe
- 16- White color strobe (100% red+100% green+100% blue)
- 17-7 colors FADE OUT & FADE IN (red, orange, yellow, green, cyan, blue, purple FADE OUT & FADE IN)
- 18-7 colors jump changing (red, orange, yellow, green, cyan, blue, purple jump changing)
- 19-7 colors strobe (red, orange, yellow, green, cyan, blue, purple strobe)
- 20- Red-white (100% red+100% green+100% blue) circle gradual changing
- 21- Green-white (100% red+100% green+100% blue) circle gradual changing
- 22- Blue-white (100% red+100% green+100% blue) circle gradual changing
- 23- Red-orange circle gradual changing
- 24- Red-purple circle gradual changing
- 25- Green-yellow circle gradual changing
- 26- Green-cyan circle gradual changing
- 27- Blue-purple circle gradual changing
- 28- Blue-cyan circle gradual changing
- 29- Red-yellow-green circle gradual changing
- 30- Red-purple-blue circle gradual changing
- 31- Green-cyan-blue circle gradual changing



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II. For run1 DMX decoder mode: After power on the decoder, if keep on clicking Up button, you will find below menu on display:

DMX signal indicator ● :: When DMX signal input is detected, the indicator on the display following after ☐ turns on red ☐ XXX

XXX Means DMX address. fa ctory defaults setting is 001.

Barbara Means DMX channels quantity. factory defaults setting is Ch05

🖟 🗮 XX Means Bit (8bit or 16bit). factory defaults setting is 16bit

🖁 🖟 XX Means output PWM frequency. factory defaults setting is 1K HZ

Barry Means output dimming curve gamma value, factory defaults setting is ga 1.5

Reans Decoding mode, factory defaults setting is dp1.1

By holding button Back + Enter together at the same time over 5 seconds until the display go off, it will restore default settings.

1. DMX address setting:

select menu $rac{H}{R}$ XXX , click button "Enter", display flashes,then click or hold button "Up" / "Down" to set DMX address (click is slow, hold is fast.), then click button"Back" to confirm.

2. DMX channel quantity setting:

Select menu XXX, click button "Enter", display flashes, then click button "Up" / "Down" to set DMX channel quantity , then click button "Back" to confirm.

For example the DMX address is already set 001.

CH01=1 DMX address for all the output channels, which are all address 001.

CH02=2 DMX addresses , output 1&3 is address 001, output 2,4&5 is address 002.

CH03=3 DMX addresses, output 1, 2 is address 001,002, output 3,4&5 is address 003.

CH04=4 DMX addresses, output 1,2,3 is address 001,002,003, output 4&5 is address 004.

CH05=5 DMX addresses, output 1,2,3,4,5 is address 001,002,003,004,005.

3. PWM output resolution Bit setting:

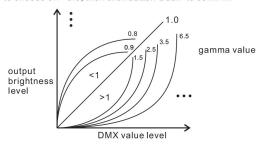
select menu 🖟 🦰 XX, click button "Enter", display flashes, then click button "Up" / "Down" to choose 08 or 16 bit, then click button "Back" to confirm.

4. output PWM frequency setting:

select menu $\mathbb{R} \times \mathbb{R} \times \mathbb{R}$, click button "Enter", display flashes,then click button "Up" / "Down" to choose 00~30, then click button "Back" to confirm. 00=500HZ, 01=1kHZ, 02=2kHZ....30=30kHZ.

5. output dimming curve gamma value setting:

select menu XX, click button "Enter", display flashes, then click or hold button "Up" / "Down" to choose 0.1-9.9, then click button "Back" to confirm.



6. DMX decoding mode setting:

Select menu XX, click button "Enter", display flashes, then click or hold button "Up" / "Down" to choose the decoding mode, then click button "Back" to confirm. "dPxx" means the DMX address quantity used for control of corresponding PWM output channel quantity. 1st "x" is DMX address quantity, 2nd "x" is PWM channel quantity.



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DMX address is 001, CH01

| DMX Console Slider number DMX channel | dp1.1 | dp2.1 |
|---|------------------------|---------------------------------|
| 1 | for all output dimming | for all output dimming |
| 2 | No use | for all output micro dimming |

DMX address is 001, CH02

| DMX Console Slider number DMX channel | dp1.1 | dp2.1 | dp3.2 |
|---|------------------------------|-----------------------------------|------------------------------|
| 1 | for output 1&3 dimming | for output 1&3 dimming | for output 1&3 dimming |
| 2 | for output 2,4 &5 dimming | for output 1&3 micro dimming | for output 2,4 &5 dimming |
| 3 | | for output 2,4 &5 dimming | for all output dimming |
| 4 | | for output 2,4&5 micro dimming | |

DMX address is 001, CH03

| DMX Console Slider number DMX channel | dp1.1 | dp2.1 | dp4.3 | dp5.3 |
|---|------------------------------|-----------------------------------|----------------------------------|----------------------------------|
| 1 | for output 1 dimming | for output 1 dimming | for output 1 dimming | for output 1 dimming |
| 2 | for output 2 dimming | for output 1 micro dimming | for output 2 dimming | for output 2 dimming |
| 3 | for output 3,4 &5 dimming | for output 2 dimming | for output 3,4&5 dimming | for output 3,4&5 dimming |
| 4 | | for output 2 micro dimming | for all output master dimming | for all output master dimming |
| 5 | | for output 3,4 &5 dimming | | strobe effects |
| 6 | | for output 3,4&5 micro dimming | | |

DMX address is 001, CH04

| DMX Console Slider number | dp1.1 | dp2.1 | dp5.4 | dp6.4 |
|------------------------------|---------------------------|---------------------------------|----------------------------------|----------------------------------|
| DIVIX CHAITITEI | for output | for output | for output 1 | for output 1 |
| 1 | for output 1 dimming | for output 1 dimming | for output 1 dimming | for output 1 dimming |
| 2 | for output 2 dimming | for output 1 micro dimming | for output 2 dimming | for output 2 dimming |
| 3 | for output 3 dimming | for output 2 dimming | for output 3 dimming | for output 3 dimming |
| 4 | for output 4&5 dimming | for output 2 micro dimming | for output 4&5 dimming | for output 4&5 dimming |
| 5 | | for output 3 dimming | for all output master dimming | for all output master dimming |
| 6 | | for output 3 micro dimming | | strobe effects |
| 7 | | for output 4 &5 dimming | | |
| 8 | | for output 4&5 micro dimming | | |

DMX address is 001, CH05

| Dimit addition to | , | | | |
|---|-------------------------|-------------------------------|----------------------------------|----------------------------------|
| DMX Console Slider number DMX channel | dp1.1 | dp2.1 | dp6.5 | dp7.5 |
| 1 | for output 1 dimming | for output 1 dimming | for output 1 dimming | for output 1 dimming |
| 2 | for output 2 dimming | for output 1 micro dimming | for output 2 dimming | for output 2 dimming |
| 3 | for output 3 dimming | for output 2 dimming | for output 3 dimming | for output 3 dimming |
| 4 | for output 4 dimming | for output 2 micro dimming | for output 4 dimming | for output 4 dimming |
| 5 | for output 5 dimming | for output 3 dimming | for output 5 dimming | for output 5 dimming |
| 6 | | for output 3 micro dimming | for all output master dimming | for all output master dimming |
| 7 | | for output 4 dimming | | strobe effects |
| 8 | | for output 4 micro dimming | | |
| 9 | | for output 5 dimming | | |
| 10 | | for output 5 micro dimming | | |

The data definitions for strobe channel are as follows:

{0, 7}.//undefined {8, 65},//slow strobe-->fast strobe {251, 255},//undefined

The supported RDM PIDs are as follows:

The supported RDM PIDs are as follow DISC_UNIQUE_BRANCH DISC_MUTE DISC_UN_MUTE DEVICE_INFO DMX_START_ADDRESS IDENTIFY_DEVICE SOFTWARE_VERSION_LABEL DMX_PERSONALITY_DMX_PERSONALITY_DESCRIPTION SLOT_INFO SLOT_DESCRIPTION MANUFACTURER_LABEL SUPPORTED_PARAMETERS

Restore to Factory Default Setting

Press and hold down both "Back" and "Enter" keys until the digital display turns off, then release the keys, system will reset and the digital display will turn on again, all settings will be restored to factory default.
Default settings are as follows: DMX Address Code: a001 DMX Address Quantity: SW1=0: ch05, SW1=1: ch04 PWM Resolution Mode: bt16 PWM Frequency: pf01 Gamma: ga1.5 Decoding Mode: dp1.1