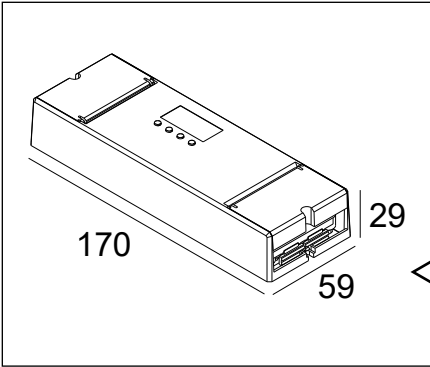




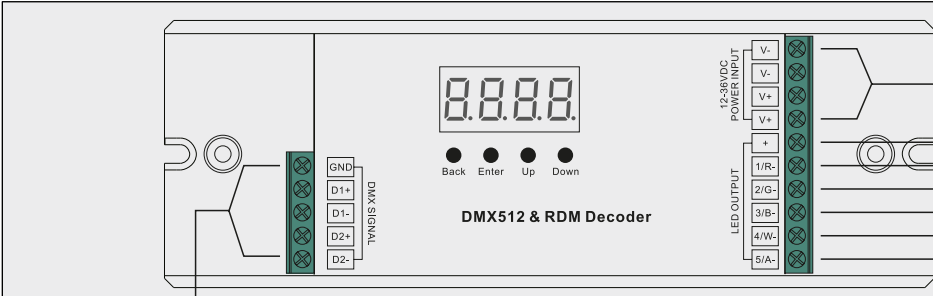
170
59
29

RGBTW DRIVER

DEEL
PARTIE
TEIL
PART
PARTE
PARTE

A





2 groups DMX512
signal input & output

DC POWER INPUT

Common Anode Output (+)

CH 1: R output (-)

CH 2: G output (-)

CH 3: B output (-)

CH 4: W/WW output (-)

CH 5: W/CW output (-)

Product Data

Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)
12-36VDC	5x5A	5x(60-180)W	Constant voltage	170x59x29mm

1 Product Data

- DMX512 RDM decoder, RDM function can realize intercommunication between DMX master and decoder. for example, you can set DMX decoder's address by DMX master console.
- 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

2 Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

3 Operation

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

run1 = DMX Decoder mode, **run2** = 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.



● ● ● ●
Back Enter Up Down

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

1-01

Means brightness for each output PWM channel. First 1 means PWM output channel 1 and it is selectable from 1 to 4 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.

P.XXX

Means programs , total 1~31 programs.

B-XX

Means RGB running effect's brightness, total 1~8 levels brightness

SP-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)

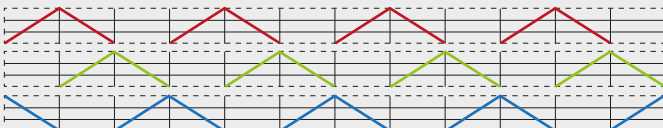
05- Static orange (75% red+25% green)

06- Static cyan (50% green+50% blue)

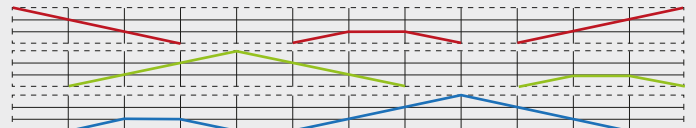
07- Static purple (50% blue+50% red)

08- Static white (100% red+100% green+100% blue)

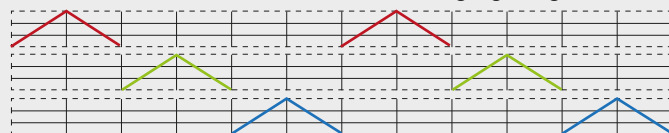
09- Any two colors of RGB mix fade, changing diagram as follow:



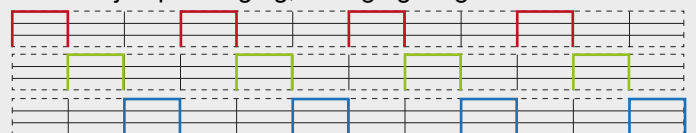
10- RGB colors mix fade, changing diagram as follow:



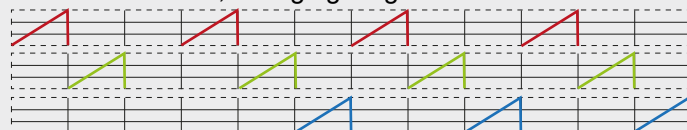
11- RGB FADE OUT & FADE IN, changing diagram as follow:



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

run2 Means the device at run2 mode (DMX master, standalone).

To make a setting is like this: Up/Down--- Enter--- Up/Down---Back

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 **A** turns on red **A.XXX**

AXXX Means DMX address. factory defaults setting is 001.

AHXX Means DMX channels quantity.

ABXX Means Bit (8bit or 16bit). factory defaults setting is 16bit

AFXX Means output PWM frequency. factory defaults setting is 1K HZ

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

APXX Means Decoding mode, factory defaults setting is dp1.1

run1 Means the device at run1 mode (DMX decoder).

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 **A**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 **AH**XX, 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 **BE**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 **PE**XX, 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.

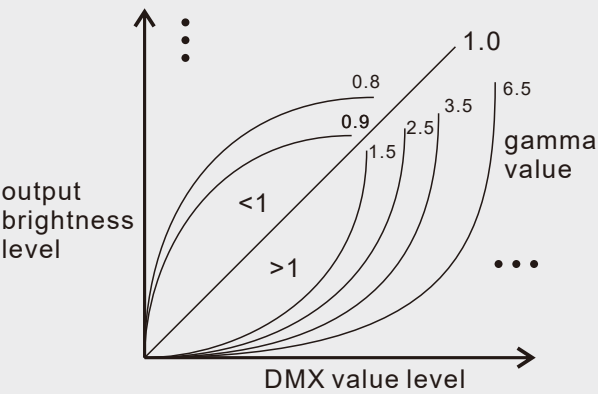
5. output dimming curve gamma value setting:

select menu **RE**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 **dP**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.

Fine dimming: the micro dimming effect can only be visible when the dimming curve gamma value is set lower than 1.4, and the lower the value is, the more visible the fine dimming effect will be.



DMX address is 001, CH01

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

DMX address is 001, CH02

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

DMX address is 001, CH04

DMX Console Slider number DMX channel	dp1.1	dp2.1	dp5.4	dp6.4
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 fine 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 fine 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 fine dimming		strobe effects
7		for output 4 &5 dimming		
8		for output 4&5 fine dimming		

DMX address is 001, CH05

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 fine 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 fine 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 fine dimming	for all output master dimming	for all output master dimming
7		for output 4 dimming		strobe effects
8		for output 4 fine dimming		
9		for output 5 dimming		
10		for output 5 fine dimming		

The data definitions for strobe channel are as follows:

```
{0, 7},//undefined
{8, 65},//slow strobe-->fast strobe
{66, 71},//undefined
{72, 127},//slow push fast close
{128, 133},//undefined
{134, 189},//slow close fast push
{190, 195},//undefined
{196, 250},//random strobe
{251, 255},//undefined
```

Restore to Factory Default Setting

Press and hold down both “Back” and “Enter” keys until then release the keys, system will reset and the digital display will turn on again, all settings will be restored to factory default.

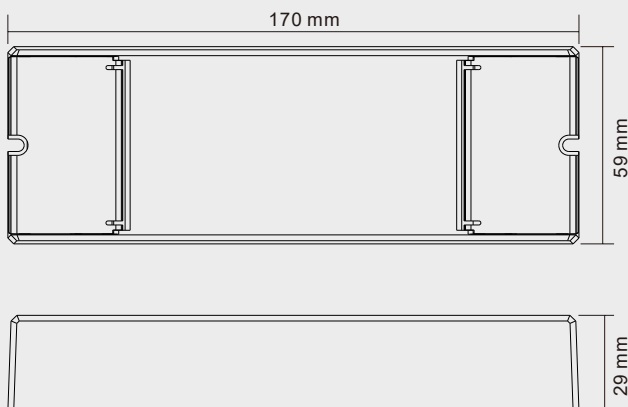
Default settings are as follows:

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

The supported RDM PIDs are as follows:

```
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
```

Product dimension





Correct disposal of this product (Waste electrical & electronic equipment)
 正确处置本产品 (废弃的电气和电子设备)
 Правильная утилизация этого продукта (Утилизация электрического и электронного оборудования)
 التخلص الصحيح من هذا المنتج (تفكيك المعدات الكهربائية والإلكترونية)
 Correcte verwijdering van dit product (Elektrische & elektronische afvalapparatuur)
 Comment éliminer ce produit (Déchets d'équipements électriques et électroniques)
 Korrekte Entsorgung dieses Produkts (Elektronmüll)
 Eliminación correcta de este producto (Material eléctrico y electrónico de descarte)
 Corretto smaltimento del prodotto (Rifiuti elettrici ed elettronici)



SELV

Only suited for goods at Safety Extra Low Voltage (below 50 V-AC / 120 V-DC)
 商品具有双重绝缘 · 禁止接地 ·
 Подходит только для товаров с безопасным сверхнизким напряжением
 (ниже 50 В переменного тока / 120 В постоянного тока)
 مناسب فقط للضائع ذات الجهد المنخفض الإضافي (أقل من 50 فولت تيار متردد / 120 فولت تيار مستمر)
 Enkel geschikt voor toestellen op zeer lage veiligheidsspanning
 (minder dan 50 V-AC / 120 V-DC)
 Convient uniquement pour les produits à très basse tension de sécurité
 (moins de 50 V-AC / 120 V-DC)
 Geeignet für Güter mit sehr niedriger Sicherheitsspannung
 (unter 50 V-AC / 120 V-DC)
 Se recomienda únicamente para aquellos productos de tensión de seguridad muy baja.
 (menos de 50 V-AC / 120 V-DC)
 Vale solo per prodotti a Bassissima tensione di sicurezza (inferiore a 50 V-AC / 120 V-DC)



The products comply with the requirements of all European Directives applicable to them and are intended for sale in the European Economic Area.
 产品符合所有相应的欧盟联邦指令 · 允许在欧洲经济区流通 ·
 Продукция соответствует требованиям всех применяемых к ней Европейских Директив и предназначена для продажи на территории Объединенной Европы.
 تمتثل المنتجات لمتطلبات جميع التوجيهات الأوروبية المطبقة عليها والمخصصة للبيع في المنطقة الاقتصادية الأوروبية.
 De producten voldoen aan de eisen van alle daarop toepasselijke Europese richtlijnen en zijn bestemd voor verkoop op het grondgebied van verenigd europa
 Les produits répondent aux exigences de toutes les directives européennes applicables et sont destinés à la vente sur le territoire de l'Europe unie
 Die Produkte erfüllen die Anforderungen aller geltenden europäischen Richtlinien und sind für den Verkauf im Hoheitsgebiet von United Europe bestimmt
 Los productos cumplen los requisitos de todas las directivas europeas que les son aplicables y están destinados a la venta en el territorio de la Unión Europea
 I prodotti soddisfano i requisiti di tutte le direttive europee applicabili e sono destinati alla vendita nel territorio dell'Europa unita



The products comply with the requirements of all Moroccan Directives applicable to them and are intended for sale in Morocco.
 产品符合所有相应的摩洛哥认证 · 允许在摩洛哥流通 ·
 Продукты соответствуют требованиям всех применимых к ним марокканских директив и предназначены для продажи в Марокко.
 تتوافق المنتجات مع متطلبات جميع التوجيهات المغربية السارية عليها والمخصصة للبيع في المغرب.
 De producten voldoen aan de eisen van alle daarop toepasselijke Marokkaanse richtlijnen en zijn bestemd voor verkoop op het grondgebied van Marokko.
 Les produits répondent aux exigences de toutes les directives marocaines applicables et sont destinés à la vente sur le territoire marocain.
 Die Produkte entsprechen den Anforderungen aller für sie geltenden marokkanischen Richtlinien und sind für den Verkauf in Marokko bestimmt.
 Los productos cumplen con los requisitos de todas las directivas marroquíes que les son aplicables y están destinados a la venta en Marruecos.
 I prodotti sono conformi ai requisiti di tutte le Direttive Marroccan ad essi applicabili e sono destinati alla vendita in Marocco.

IP20

Protected against solid objects greater than 12mm.
 防止直径大于 12mm 的固体异物进入 ·
 Защита от твердых объектов размером более 12 мм.
 محمي ضد الأجسام الصلبة أكبر من 12 مم
 Beschermtd tegen vaste voorwerpen die groter zijn dan 12 mm
 Protégé contre les objets solides de plus de 12 mm
 Geschützt gegen Festkörper größer als 12 mm
 Protegido contra objetos sólidos superiores a 12 mm
 Protetto contro oggetti solidi più grandi di 12 mm



This fitting should only be installed in rooms where direct contact with water is impossible
 灯具应安装在无法与水直接接触的房间里 ·
 Этот фитинг следует устанавливать только в помещениях, где прямой контакт с водой невозможен
 يجب تثبيت هذا التركيب فقط في الغرف حيث يكون الاتصال المباشر بالماء مستحيلًا
 Installeer het armatuur enkel in ruimten waar direct contact met water onmogelijk is.
 Cet équipement doit être installé dans des pièces hors de toute projection d'eau.
 Diese Leuchte darf nur in Räumen verwendet werden, in denen ein direkter kontakt mit wasser nicht möglich ist
 Este aparato solamente puede ser instalado en habitaciones donde el contacto directo con el agua sea imposible
 Questo apparecchio di illuminazione deve essere installato solamente in locali in cui il contatto con l'acqua è impossibile.



The products comply with the requirements of all Eurasian Customs Union Directives applicable to them and are intended for sale in Eurasian Economic Union. and are intended for sale in the European Economic Area.
 产品符合所有相应的海关联盟国家认证 · 允许在海关联盟国家流通 ·
 Продукция соответствует требованиям всех применимых к ним Директив Евразийского таможенного союза и предназначена для продажи в Евразийском экономическом союзе. и предназначены для продажи в Европейском экономическом пространстве.
 تمتثل المنتجات لمتطلبات جميع توجيهات الاتحاد الجمركي الأوراسي المطبقة عليها والمخصصة للبيع في الاتحاد الاقتصادي الأوراسي. وهي مخصصة للبيع في المنطقة الاقتصادية الأوروبية
 De producten voldoen aan de eisen van alle daarop toepasselijke Euraziatische douane-unie richtlijnen en zijn bestemd voor verkoop op het grondgebied van Euraziatische Economische Unie.
 Les produits répondent aux exigences de toutes les directives applicables de l'Union douanière eurasiennne et sont destinés à la vente sur le territoire de la Euraziatische Economische Unie.
 Die Produkte entsprechen den Anforderungen aller Richtlinien der Eurasischen Zollunion auf sie anwendbar und zum Verkauf in der Eurasischen Wirtschaftsunion bestimmt. und sind beabsichtigt zum Verkauf im Europäischen Wirtschaftsraum.
 Los productos cumplen los requisitos de todas las directivas de la Unión Aduanera Euroasiática que les son aplicables y están destinados a la venta en el territorio de Unión Económica Euroasiática.
 I prodotti sono conformi ai requisiti di tutte le Direttive dell'Unione doganale euroasiatiche applicabili a tali paesi e sono destinati alla vendita nell'Unione economica eurasiatica.



The products comply with the requirements of all Great Britain's applicable directives and legislations and are intended for sale in Great Britain.
 产品符合所有相应的英国认证 · 允许在英国流通 ·
 Продукция соответствует требованиям всех действующих директив и законодательства Великобритании и предназначена для продажи в Великобритании.
 تتوافق المنتجات مع متطلبات جميع التوجيهات والتشريعات المعمول بها في بريطانيا العظمى وهي مخصصة للبيع في بريطانيا العظمى
 De producten voldoen aan de eisen van alle toepasselijke richtlijnen en wetgevingen in Groot-Brittannië en zijn bedoeld voor verkoop in Groot-Brittannië.
 Les produits sont conformes aux exigences de toutes les directives et législations applicables en Grande-Bretagne et sont destinés à la vente en Grande-Bretagne.
 Die Produkte entsprechen den Anforderungen aller geltenden Richtlinien und Gesetze Großbritanniens und sind für den Verkauf in Großbritannien bestimmt.
 Los productos cumplen con los requisitos de todas las directivas y legislaciones aplicables de Gran Bretaña y están destinados a la venta en Gran Bretaña.
 I prodotti sono conformi ai requisiti di tutte le direttive e legislazioni applicabili della Gran Bretagna e sono destinati alla vendita in Gran Bretagna.