DMX512 DEKODER

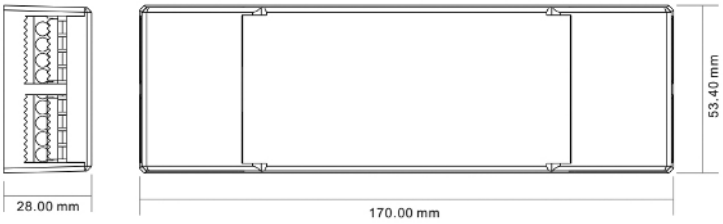
DMX512 DECODER

Specifikationer / Specifications

Varenr. / Item no.:	**VN20102**
Indgangsspænding / Input Voltage:	12 - 24 VDC
Udgangsspænding / Output Voltage:	12 - 24 VDC
Udgangsstrøm / Output Current:	4 x 5 A
Udgangseffekt / Output Power:	4 x 60 W (12 VDC) / 4 x 120 W (24 VDC)
Dæmpning / Dimming:	DMX512
Tætningsklasse / IP Protection Class:	IP20
Omgivelsestemp. / Working Temp.:	-20°C ~ +50°C
Dimensioner L x B x H / Dimensions L x W x H:	170 x 53,4 x 28 mm

Kun til LED! / LED strip only
Strømforsyning er ikke inkluderet / Driver or Power Supply is not included

Dimensioner / Dimensions:



Funktion / Function:

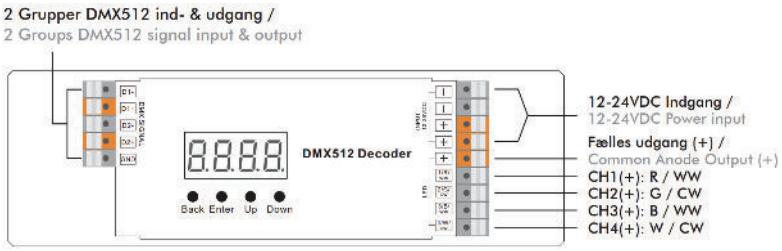


Foto / Photo:

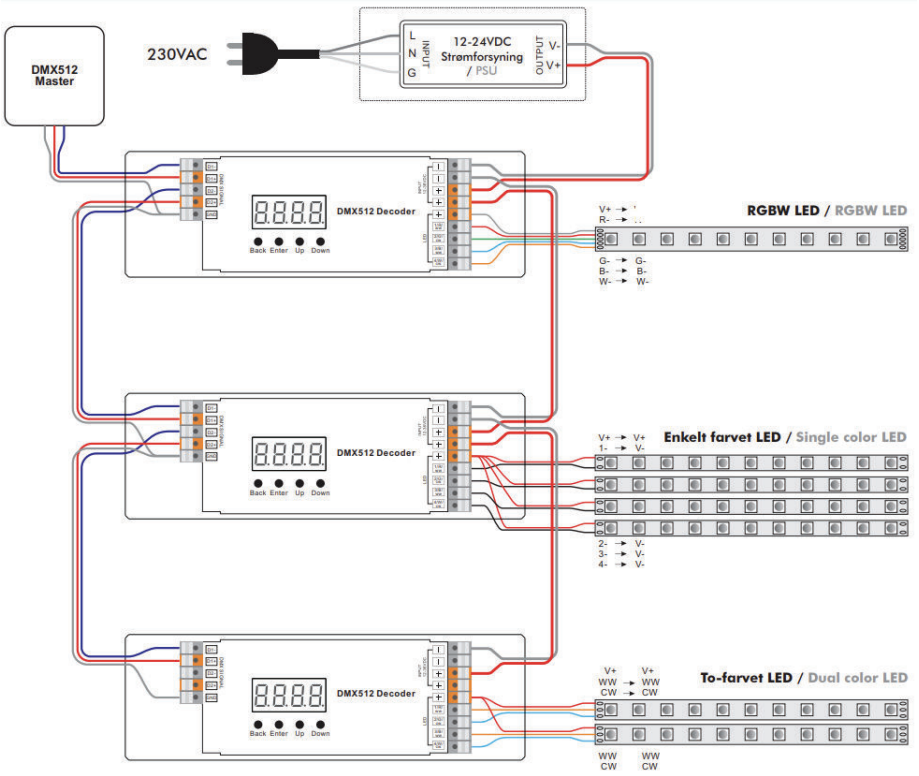
LED

Funktioner / Features:

- **DMX512 RDM-dekoder, RDM-funktion kan realisere interkommunikation mellem DMX-master og dekoder. For eksempel kan du indstille DMXdekoderens adresse ved DMX-masterkonsol.**
- **Digital display for at vise data direkte, let at indstille og vise DMX-adresse.**
- **I alt 4 PWM-udgangskanaler, fælles anode. DMX-kanalmængde fra 1CH ~ 4CH indstillelig**
- **PWM-udgangsopløsningsforhold 8bit, 16bit indstillelig.**
- **Output PWM-frekvens fra 500 HZ ~ 30K HZ indstillelig.**
- **Outputdæmningskurve gamma-værdi fra 0,1~9,9 indstillelig.**
- **Afkodningstilstand indstillelig**

- 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.
- Digital display to show data directly, easily to set and show DMX address.
- Total 4 PWM output channels, common anode. DMX channel quantity from 1CH~4CH 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.

Tilslutningsdiagram / Wiring diagram:



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Brugervejledning / User Manual

Knappen introduktion

Knappen "Up" og "Down" er til menuvalg, når du har tændt for dekoderen. Hvis du fortsætter med at klikke på "Up" -knappen, finder du nedenfor menu på skærmen:

DMX-signalindikator • :: Når DMX-signalindgang registreres, vises indikatoren på displayet efter A tændes rødt A.XXX

- A.XXX Betyder DMX-adresse. fabriksindstillinger er 001.
- CH XX Betyder DMX-kanalmængde.
- bit XX Betyder Bit (8bit eller 16bit). fabriksindstillinger er 16bit
- PWM XX Betyder output PWM-frekvens. fabriksindstillinger er 1K HZ
- GA XX Betyder output dæmpningskurve gamma værdi, fabriksindstillinger er ga 1,5
- dP XX Betyder dekodningstilstand, fabriksindstillinger er dp1.1

Ved at holde knappen "Back" + "Enter" nede på samme tid over 5 sekunder, indtil displayet slukker, gendannes standardindstillingerne.

1. DMX-adresseindstilling:

Vælg menu A.XXX, klik på knappen "Enter". Når displayet blinker, klik og hold knappen "Up" / "Down" nede for at indstille DMX-adresse (klik er langsomt, hold er hurtigt), og klik derefter på knappen "Back" for at bekræfte.

2. DMX-kanalmængdeindstilling:

Vælg menu CH XX, klik på knappen "Enter". Når displayet blinker, klik på knappen "Up" / "Down" for at indstille DMX-kanalmængde, og klik derefter på knappen "Back" for at bekræfte.

F.eks. Er DMX-adressen allerede indstillet til 001.

CH01 = 1 DMX-adresse for alle outputkanaler, som alle er adresse 001.

CH02 = 2 DMX-adresser, output 1 & 3 er adresse 001, output 2,4 er adresse 002

CH03 = 3 DMX-adresser, output 1, 2 er adresse 001,002, output 3,4 er adresse 003

CH04 = 4 DMX-adresser, output 1,2,3,4 er adresse 001,002,003,004

Button introduction

"Up" and "Down" button is for menu selection. 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

- A.XXX Means DMX address. factory defaults setting is 001.
- CH XX Means DMX channels quantity.
- bit XX Means Bit (8bit or 16bit). factory defaults setting is 16bit
- PWM XX Means output PWM frequency. factory defaults setting is 1K HZ
- GA XX Means output dimming curve gamma value, factory defaults setting is ga 1.5
- dP XX Means 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 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 CH 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 is address 002

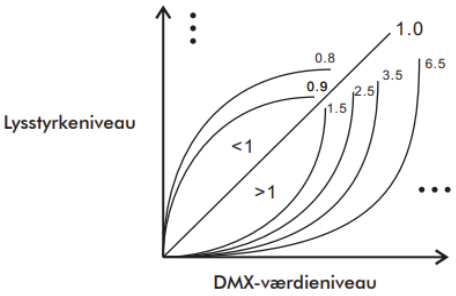
CH03=3 DMX addresses, output 1, 2 is address 001,002, output 3,4 is address 003

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

3. PWM-udgangsopløsning Bit indstilling:
Vælg menu bb XX, klik på knappen "Enter". Når displayet blinker klik på knappen "Up" / "Down" for at vælge 08 eller 16 bit. Klik derefter på knappen "Back" for at bekræfte.

4. Output PWM-frekvensindstilling:
Vælg menu PF XX, klik på knappen "Enter". Når displayet blinker klik derefter på knappen "Up" / "Down" for at vælge 00~30. Klik derefter på knappen "Back" for at bekræfte.
00=500 HZ, 01=1 kHZ, 02=2 kHZ ... 30=30 kHZ.

5. Indstilling af dæmpningskurve for gamma-værdi:
Vælg menu gA XX, klik på knappen "Enter". Når den blinker klik og hold knappen "Up" / "Down" nede for at vælge 0,1 ~ 9,9. Klik derefter på knappen "Back" for at bekræfte.



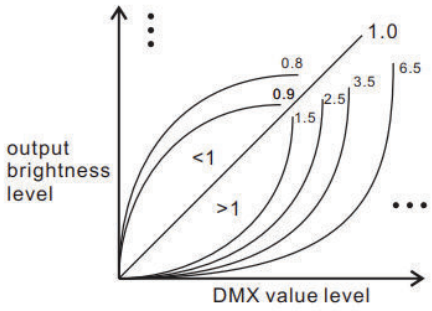
6. DMX-dekodningstilstand indstilling:
Vælg menu dP XX, klik på knappen "Enter". Når den blinker klik og hold knappen "Up" / "Down" nede for at vælge dekodningstilstand. Klik derefter på knappen "Back" for at bekræfte. "DPxx" betyder den DMX-adressemængde, der bruges til styring af den tilsvarende PWM-outputkanalmængde. 1. "x" er DMX-adressemængde, 2. "x" er PWM-kanalmængde.

Mikrodæmpning: mikrodæmpningseffekten kan kun ses, når dæmpningskurven gamma-værdi er indstillet til lavere end 1,4, og jo lavere værdien er, jo mere synlig er mikrodæmpningseffekten.

3. PWM output resolution Bit setting:
Select menu bb 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 PF 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 gA 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.

Micro 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 micro dimming effect will be.

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 dimming	for output 1&3 micro dimming	for output 2,4 dimming
3		for output 2,4 dimming	for all output dimming
4		for output 2,4 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 dimming	for output 2 dimming	for output 3,4 dimming	for output 3,4 dimming
4		for output 2 micro dimming	for all output master dimming	for all output master dimming
5		for output 3,4 dimming		strobe effects
6		for output 3,4 micro 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 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 3 dimming	for all output master dimming	for all output master dimming
6		for output 3 micro dimming		strobe effects
7		for output 4 dimming		
8		for output 4 micro 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 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: ch04, SW1=1: ch03
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