AC Triac DMX Dimmer

Model No.: S1-D

2 Channel/RDM/Stand-alone function/Leading edge or trailing edge/Numeric display



Features

C CE RoHS amc LVD

- AC phase-cut mosfet dimmer with DMX512 function, two channel output.
- . Comply with the DMX512 standard protocols.
- Digital numeric display, set DMX decode start address by bottons.
- RDM function can realize intercommunication between DMX master and decoder. For example, DMX decoder address can be set by DMX master console.
- 1/2 DMX channel output selectable.
- Reverse-phase dimming or forward-phase dimming selectable.
- Minimum brightness set from 1% to 40%.
- Stand-alone dynamic mode and 2 channel dimmer mode selectable, which be controlled by buttons with built-in programs, instead of DMX signal.
- To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights.

Technical Parameters

Input and Output	
Input voltage	100-240VAC
Output voltage	2 x (100-240)VAC
Output current	2CH, 1A/CH
Output power	2 x (100-240)W

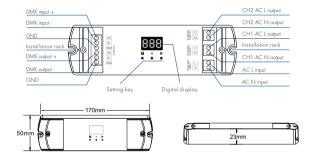
Safety and EMC	
EMC standard (EMC)	EN 55015:2013 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013
Safety standard(LVD)	EN 61347-2-11:2002 EN 61347-1:2015 EN 62493:2015
Certification	CE,EMC,IVD

Dimming data				
Input signal		DMX512		
Dimming level		256 levels		
Dimming range		0-100%		
Environment				
Operation temperature		Ta:-30°C ~+55°C		
Case temperature (Max.)		Tc: +85°C		
IP rating		IP20		
Warranty				
Warranty		5 years		
Weight	Net we	eight	Gross weight	
Weight unit(g)	0.088kg		0.135kg	

Compatible Load Types

Load Type	Maximum Load	Remarks
Dimmable LED lamps	100W @ 220V 50W @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.
Triac Dimmable LED drivers	100VV @ 220V 50VV @ 110V	Maximum permitted number of drivers is 100W divided by driver nameplate power rating, and make sure the surge current is no more than 2 times 60A.
Incandescent lighting, HV Halogen lamps	200W @ 220V 100W @ 110V	

Mechanical Structures and Installations



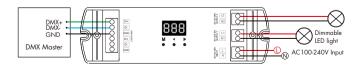
Wiring Diagram



Caution:

Please carefully ensure all wire connections and polarities are correct and secur-before applying power otherwise this controller will be damaged.

• Connect with dimmable LED light



Page 1 User Manual Ver 1.0.3

 Connect with Triac dimmable LED driver Dimmable IFD Driver LED liaht DMX+ DMY. Dimmable GND IFD Driver DMX Master AC100-240V Input

Note: When calculating the maximum number of load lamps or drivers, the input power or input current parameters of a single lamp or driver must be used, the output power parameters can not be used In addition, the maximum surge current of the dimmer is 60A, the sum of surge current of multiple dimmable LED drivers should not exceed 2 times, otherwise, the product will be overloaded and damaged.

Operation

System parameter setting

- Long press M and

 key for 2s, prepare for setup system parameter; decode mode, control method. minimum brightness curve, automatic blank screen. short press M key to switch four item
- Decode mode: short press ◄ or ► key to switch one-channel decode("d-1") or two-channel decode("d-2"). When set as 1 channel decode, the decoder occupy only 1 DMX address, and two channel output the same brightness of this DMX address.

Forward-phase control dimmer



Reverse-phase control dimmer



- Minimum brightness: short press

 or

 key to set minimum brightness. from 1% to 40%("b01" to "b40"). You need set suitable minimum brightness to avoid flick.
- Automatic blank screen: short press ◀ or ► key to switch enable("bon") or disable("boF") automatic blank screen.
- Long press M key for 2s or timeout 10s, guit system parameter setting.

DMX mode

- Short press M key, when display 001~999, enter DMX mode.
- Press

 or ► key to change DMX decode start address[001~999], long press for fast adjustment.
- If there is a DMX signal input, will enter DMX mode automatically.
- DMX Dimmina: Each S1-D DMX decoder occupy 2 DMX address when connecting the DMX console.

For example, the defaulted start address is 1,

their corresponding relationship in the form:





Stand-alone dimmer mode

- Short press M key, when display L-1~L-8, enter stand-alone dimmer mode.
- Press ◀ or ► key to change dimmer mode number(1-1~1-8)

Long press M key for 2s, or timeout 10s, guit setting

- Each dimmer mode can adjust each channel brightness independently. Long press M key for 2s, prepare for setup two channel brightness. Short press M key to switch two channel(100-1FF, 200-2FF). Press ◀ or ▶ key to setup brightness value of each channel.
- Enter stand-alone dimmer mode only when DMX signal is disconnected or lost.

Stand-alone dimmer mode (L-1~L-8)

Stand-alone dynamic mode

- Short press M key, when display P-1~P-4. enter stand-alone dynamic mode.
- Press ◄ or ► kev to change dynamic mode number(P-1~P-4).
- Each mode can adjust speed and brightness. Long press M key for 2s, prepare for setup mode speed, brightness. Short press M key to switch two item.

Press or ▶ key to setup value of each item.

Mode speed: 1-10 level speed(S-1, S-9, S-F).

Mode brightness: 1-10 level brightness(b-1, b-9, b-F).

Long press M key for 2s, or timeout 10s, guit setting.

• Enter stand-alone dynamic mode only when DMX signal is disconnected or lost

Stand-alone dynamic mode (P-1~P-4)





Brightness (8 level) (10 level, 100%)

Dynamic mode list

No.	Name
P-1	2ch light on/off synchronously
P-2	2ch single light on/off in sequence
P-3	2ch light fadein and fadeout synchronously
P-4	2ch light fadein and fadeout in sequence

Restore factory default parameter

- Factory default parameter: DMX decode mode, DMX decode start address is 1, two channel decode, rerverse-phase control, 10% minimum brightness, dimmer mode number is 1, dynamic mode number is 1, disable automatic blank screen.

Page 2 User Manual Ver 1.0.3