CERTIFIED R&D CENTER OF AUTOMATION Developer of Uniqueness





Introduction

It is not only a KNX/DMX gateway, but also can make record, play back and delete DMX program.

The maximum record time is up to 4 hours. This module can be used to control devices with built-in DMX protocol, such as LED color changer, laser light, etc.



DMX input type

HDL Net DMX/ArtNet DMX: If use RJ45 as communication, select these modes.

DMX-1990: If connect OUT ports as communication, select this mode, generally speaking, use this communication way.

Device: 1.1.11 M/DMX512.1		
General IP/MAC config	>>DMX input type	HDLNet DMX
DMX config DMX to EIB config	HDLNet DMX input for universe(1255)	ArtNet DMX DMX-1990
	DMX input start address(1512)	1
	Change DMX input type via bus	 ▼
	Change Net DMX input universe via bus	∎
	Change DMX input start address via bus	∎
	Read DMX input type(0-HDLNet DMX,1-ArtNet DMX,2- DMX-1990)	Disable 🗸
	Read Net DMX input universe form bus	Disable 🔹
	Read DMX input start address from bus	Disable 🗸

Work mode

External record mode: this mode is as a recorder, it can record some scenes, and then you can play the scenes by other devices after recording.

DMX dimming(EIB to DMX): this mode is as a dimmer, it can control channel, scene and sequence. DMX to EIB: this mode is as converter, can achieve the DMX signal to control EIB devices.

Device: 1.1.11 M/DMX512.1		
General IP/MAC config DMX config Program config Program group A	Work mode select Information of DMX shown below: DMX type:->HDLNet DMX>ArtNet DM DMX universe:HDLNet DMX(1255), ArtI DMX start address:1512	External record mode DMX dimming(EIB to DMX) DMX to EIB MX>DMX-1990. Net DMX(0255)

DMX output start address

The valid address is 1-512, is according to your DMX driver address. There are X100,X10, X1 for address, if your address is 001, the start address is 1

Device:	1.1.11 M/DMX512.1		
Ger	neral	>> DMX output type	DMX-1990
IP/I	MAC config	>>DWX output type	UNIX-1350
DN	1X config	DMX output start address(1512)	1
Cha	annel config	Change DMX output type via bus	
Cha	annel 1		Disable 🗸
Cha	annel 2		
Cha	annel 3	Change Net DMX output universe via	Disable 🗸
Cha	annel 4	bus	
Cha	annel 5	Change DMX output start address via	Disable 🗸
Cha	annel 6	bus	
Cha	annel 7	Read DMX output type(0-HDI Net	Disable
Cha	annel 8	DMX,1-ArtNet DMX,2- DMX-1990)	
Sce	ne config		Disable
Sce	ene NO.1	hus het DMX output universe from	Disable
Sce	me NO.2	245	
Sce	me NO.3	Read DMX output start address from	Disable 🗸
Sce	ne NO.4	bus	
Sce	ne NO.5		
Sce	ne NO.6		
Sec	quence config		
Sec	quence 1		

Fade time

Fade time: For example, you set 3 seconds and turn it on by pressing a user panel, the load will turn on slowly and reach the max brightness 3 seconds later

Device: 1.1.11	M/DMX512.1			
General IP/MAC co	nfig	Fade time for channel dimming ([0%100%]/[0255s])	5]
Channel c	g onfig	Enable channel 18	Enable	
Channel 1 Channel 2		Enable channel 916	Disable	•
Channel 3 Channel 4		Enable channel 1724	Disable	·
Channel 5 Channel 6		Enable channel 2532	Disable	•
Channel 7		Enable channel 3340	Disable	•
Channel 8 Scene con	fig	Enable channel 4148	Disable	•

Channel state feedback

1bit:

normally use this object to feedback the channel state to the button, so the button indicator can show the correct state of it. if the channel brightness>0, send out command '1'; if the brightness=0, send out command '0'.

1 byte:

normally use this object to feedback the channel specific brightness to the app, then the app can show the percentage value of its brightness.

Device: 1.1.11 M/DMX512.1		
General IP/MAC config	The response of channel state	Invalid 🗸
DMX config Channel config	The status after voltage recovery	1 bit always respone 1 bit only changed
Channel 1	Enable switch ON/OFF(1bit)	1byte always respone
Channel 2	Enable relative dimming(4bits)	Enable
Channel 3 Channel 4	chable feative anning(foils)	
Channel 5	-Relative dimming saved as the	NO
Channel 6		
Channel 7	Enable absolute dimming(1byte)	Enable
Channel 8	-Absolute dimming saved as the	NO 👻
Scene Config Scene NO.1	brightness of switch	
Scene NO.2		
Scene NO.3		
Scene NO.4		
Scene NO.5		
Scene NO.6		
Sequence config		
Sequence 1		

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Relative/absolute dimming

Relative dimming: long pressing the button to dim up/down, adjust the brightness visually.

Absolute dimming:

The channel will output a certain brightness when receives a percentage telegram

Device: 1.1.11 M/DMX512.1		
General IP/MAC config	The response of channel state	Invalid 🔹
DMX config Channel config	The status after voltage recovery	OFF
Channel 1	Enable switch ON/OFF(1bit)	Enable 🔹
Channel 2 Channel 3	Enable relative dimming(4bits)	Enable 🗸
Channel 4 Channel 5	-Relative dimming saved as the brightness of switch	NO •
Channel 6 Channel 7	Enable absolute dimming(1byte)	Enable 🔹
Channel 8 Scene config	-Absolute dimming saved as the brightness of switch	NO

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Scene

Scene: the combination of several channels' status (on/off or different brightness levels.)

This gateway supports 64 scenes totally, and each scene can be applied to 48 channels at most Assign current channel to some scenes and set the brightness for different scenes in scene page.

Device: 1.1.11 M/DMX512.1		
General IP/MAC config DMX config	Fade time for scene channel dimming ([0%100%]/[0255s])	3
Channel config	Channel 1 brightness	Invalid 🗸
Channel 1 Channel 2	Channel 2 brightness	Invalid
Channel 3 Channel 4	Channel 3 brightness	Invalid 👻
Channel 5 Channel 6	Channel 4 brightness	Invalid 🔹
Channel 7	Channel 5 brightness	Invalid 🔹
Channel 8 Scene config	Channel 6 brightness	Invalid 🗸
Scene NO.1	Channel 7 brightness	Invalid 🗸

INTERRA

Sequence

Sequence: the combination of difference scenes with playing parameters.

one sequence can have up to 24 steps, one step can call one scene, set the step running time, when this time elapses, will turn to next step.

Device: 1.1.11 M/DMX512.1					
General IP/MAC config DMX config	Total 24 steps,configuration as following: Total 24 steps,configuration as following:				
Channel config	>>Step 1 configuration	Invalid 🔹			
Scene config Sequence config	Time for step 1 (065535s)	5			
Sequence 1 Sequence 2	Time for step 1 (0999ms)	0			
Sequence 3 Sequence 4	>>Step 2 configuration	Invalid			
Sequence 5 Sequence 6	Time for step 2 (065535s)	5			

on/off(channel output): 1 bit data point, here we assign group address 1/4/0, 1/5/0 for channel1,2 respectively. relative dimming: it is enabled by default, 4 bit data point, here we assign group address 1/4/1, 1/5/1 for channel1,2 respectively.

enecomy		The status :	The status after voltage recovery		UFF 🔻									
Chan	nel config				_									
Chan	nnel 1	Enable swit	ch ON/OFF(1bit)		Enable 🗸									
Chan	nnel 2													
Chan	nnel 3	Enable rela	Enable relative dimming(4bits)		Enable									
					<u> </u>									
₹ 30	Channel 1	Switching(1bit)	1/4/0	1 bit	С	-	W	-	U	switch	Low			
\$ 31	Channel 1	Relative dimming(4bits)	1/4/1	4 bit	С	-	W	-	U	dimming control	Low			
₹ 32	Channel 1	Absolute dimming(1byt		1 Byte	С	-	W	-	U	percentage (01009	6) Low			
₹ 34	Channel 2	Switching(1bit)	1/5/0	1 bit	С	-	W	-	U	switch	Low			
\$ 35	Channel 2	Relative dimming(4bits)	1/5/1	4 bit	С	-	W	-	U	dimming control	Low			

In the panel setting page, select the 'Dimming controller' as the work mode.

assign the same group addresses of channel1,2 for Rocker A, B respectively, then can use Rocker A to control channel1, Rocker B to control channel2:

short press the button, for on/off control; long press the button, for dim up/down control.

Device: 1.1.14 M/DLP04.1							
General 1	Rocker A work mode	Dimming controller 🔹					
General 2							
Rocker A	Rocker A operation mode	Double buttons mode					
Rocker B							
Rocker C	->Reaction on short button	Left=Toggle,Right=Toggle 🛛 🗸					
Rocker D							
Rocker E	->Reaction on long button	Left=Dim(Toggle),Right=Dim(Toggle)					

	Numb 🔺	Name	Object Function	Description	Group Address	Length		R	W	Т	U	Data Type
■₹	40	Rocker A short	Switching(Toggle)		1/4/0	1 bit	С	-	W	Т	U	switch
;	41	Rocker A long	Dimming		1/4/1	4 bit	С	-	W	Т	U	dimming control
ŧ,	50	Rocker B short	Switching(Toggle)		1/5/0	1 bit	С	-	W	Т	U	switch
‡	51	Rocker B long	Dimming		1/5/1	4 bit	С	-	W	Т	U	dimming control

INTERRA

absolute dimming:

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Enable absolute dimming(1byte) Enable -Absolute dimming saved as the brightness of switch NO
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absolute dimming: it's enabled by default, it's 1 byte data point, here we assign group address 1/4/5, 1/5/5 for channel1,2 respectively.

■‡ 36	Channel 2	Absolute dimming(1byt	1/5/5	1 Byte	С	-	W	-	U	percentage (0100%) Low
■‡ 35	Channel 2	Relative dimming(4bits)	1/5/1	4 bit	С	-	W	-	U	dimming control	Low
■‡ 34	Channel 2	Switching(1bit)	1/5/0	1 bit	С	-	W	-	U	switch	Low
■ ‡ 32	Channel 1	Absolute dimming(1byt	1/4/5	1 Byte	С	-	W	-	U	percentage (0100%) Low
■ ‡ 31	Channel 1	Relative dimming(4bits)	1/4/1	4 bit	С	-	W	-	U	dimming control	Low
■‡ 30	Channel 1	Switching(1bit)	1/4/0	1 bit	С	-	W	-	U	switch	Low
	•	-		•							

In the panel setting page, select the 'Percentage controller' as the work mode for rocker F. set the favorite brightness for each button's short/long press operation same as rocker G.

Device: 1.1.14 M/DLP04.1							
General 1	Packar Ework mada	Percentage controller					
General 2	Rocker F work mode	T creentage controller					
Rocker A	->Percentage on left short button	100%(255)					
Rocker B	Ŭ,						
Rocker C	->Percentage on left long button	0%(0)					
Rocker D							
Rocker E	Delay on left short button(0255s)	0					
Rocker F							
Rocker G	Delay on left long button(0255s)	0					
Rocker H	. Deservations on statute a boots	0004					
->Air-condition(IR)	->Percentage on right long button	0070 ▼					
	->Percentage on right long button	50%(128)					

assign the same gourp address of channel1 absolute dimming object for Rocker F, then can use Rocker C to control channel1:

short press rocker C left button, channel1 will output 100%; long press rocker C left button, channel1 will output 0%; short press rocker C right button, channel1 will output 80%; long press rocker C right button, channel1 will output 50%.

same as rocker G

■ 4 80	Rocker Eleft short Sequence 1 bit					-	vv	Ι	υ	start/stop
■ ‡ 82	Rocker E righ	1 bit	С	-	W	Т	U	start/stop		
■≵ 90	Rocker F	Percentage	1/4/5	1 Byte	С	-	W	Т	U	percentage (0100%)
■ ‡ 100	Rocker G	Percentage	1/5/5	1 Byte	С	-	W	Т	U	percentage (0100%)
	_	, , , , , , , , , , , , , , , , , , ,								

Scene 1:

Set the Scene1 brightness for different channels, e.g. channel1 is 30%, channel 2 is 60%, channel 3 is 0%;

Device: 1.1.11 M/DMX512.1		
General IP/MAC config DMX config	Fade time for scene channel dimming ([0%100%]/[0255s])	3
Channel config	Channel 1 brightness	30% 🔹
Scene config Scene NO.1	Channel 2 brightness	60%
Scene NO.2 Scene NO.3	Channel 3 brightness	0%(0) •

Scene 2:

Set the Scene 2 brightness for different channels, e.g. channel1 is 50%, channel2 is 80%, channel3 is 0%;

Device: 1.1.11 M/DMX512.1		
General IP/MAC config	Fade time for scene channel dimming ([0%.,100%]/[0.,255s])	3
DMX config Channel config	Channel 1 brightness	50%(128) ▼
Scene config Scene NO.1	Channel 2 brightness	80%
Scene NO.2		0%(0)
Scene NO.3		

same steps for other scenes

here we assign group address 1/2/5 for scene object, use middle group 2 for scene function

■4 14	DMX output univers	s Read Net DMX output u		1 Byte	C	к	-	I	-		Low
■2 15	DMX output start a	d Read DMX output addre		2 Byte	С	R	-	Т	-		Low
■ ‡ 230	Scene	Call scene(8bit)	1/2/5	1 Byte	С	-	W	-	U		Low
1 231	Scene	Scene dimming(4bit)		4 bit	С	-	W	-	U	dimming control	Low
■ ‡ 232	Sequence	Sequence 1	1/2/7	1 bit	С	-	W	-	U	start/stop	Low
1 233	Sequence	Sequence 2		1 bit	С	-	W	-	U	start/stop	Low
■ ‡ 234	Sequence	Sequence 3		1 bit	С	-	W	-	U	start/stop	Low
235	Sequence	Sequence /		1 bit	C	-	W	-	Ш	start/stop	Low

In the panel setting page, select the 'Scene controller' as the work mode. press rocker D left button to call scene1, channel 1 will go to 30%, channel 2 will go to 60%, etc; press right button to call scene2, channel 1 will go to 88%, channel 2 will go to 70%, etc.

De	evice: 1.1.14	M/DLP04.1										
General 1 General 2			Bocker D work mode	Scen	Scene controller							
		•										
	Rocker A		Call scene number of the left	Scen	e NO.01					•		
	Rocker B											
	Rocker C		Call scene number of the right	Scen	e NO.02					-		
	Rocker D											
	a.l					_			_			
	Ž 51	Rocker B long	Dimming	1/5/1	4 bit	С	-	W	Т	U		
	≵ 60	Rocker C	Percentage		1 Bvte	С	-	W	Т	U		
	2 70	Rocker D short	Call scene	1/2/5	1 Bvte	С	-	W	Т	U		

Configuration/Sequence

set to call one scene for each step, e.g. setp1 call scene1, step2 call scene2, step3 call scene3. set the step running time, here is 5s.

control mode is forward, running mode is cycle, when running the sequence, it will execute: step1->step2-step3->step1->step2->...

Device: 1.1.11 M/DMX512.1							
General	Total 24 steps,configuration as following:						
IP/MAC config	>>Step 1 configuration	Scene NO.01 🔹					
DMX config							
Channel config	Time for step 1 (065535s)	5					
Scene config							
Scene NO.1	Time for step 1 (0999ms)	0					
Scene NO.2							
Scene NO.3	>>Step 2 configuration	Scene NO.02					
Scene NO.4	Time for step 2 (065535s)	-					
Scene NO.5		>					
Scene NO.6	Time for stop 2 (0, 000ms)	0					
Sequence config	Time for step 2 (0	0					
Sequence 1	>>Step 3 configuration	Scene NO.03					
Sequence 2							
Sequence 3	Time for step 3 (065535s)	5					
Sequence 4							
Sequence 5	Time for step 3 (0999ms)	0					
Sequence 6							
	>>Step 4 configuration	Scene NO.04 🔹					

INTERRA

Configuration/Sequence

In the panel setting page, select the 'Sequence controller' as the work mode. assign the same group address for sequence object in dimmer and button E.

Device: 1.1.14 M/DLP04.1							
General 1	Rocker E work mode	Sequence controller					
General 2	Rocker E work mode						
Rocker A	Rocker E operation mode	Single button mode 🔹					
Rocker B							
Rocker C	->Reaction on left short button	Toggle(Start-"1"-,Stop-"0")					
Rocker D							
Rocker E	->Reaction on left long button	Invalid					
Rocker F	> Position on right short button	Toggle(Start="1"= Stop="0")					
Rocker G	->Reaction on right short button						



Find Your Missing Part

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