













6 keys-E type

3 keys-E type

4 keys-U type

The DTP-2XX series touch panel (push button) compliant with DALIIEC 62386 standard as a DALI-2 input device, it is powered by the DALI bus and has a variety of buttons. It designs with a tempered glass and a sliding cover. The cover is easy to install and can also provide customized laser-engraved symbols. There is a built-in toggle switch to adjust the button backlight and volume, allowing users to customize settings according to their needs. This touch panel can be used with the MEAN WELL DLC-02 DALI controller, LED power supply, and various DALI sensors to form a DALI-2 digital lighting system, which can control the on/off, colour temperature, colour, brightness, scene, grouping, scheduling, and various event adjustments, thus meeting most lighting control needs.

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1.Safety Guidelines

- This product shall be debugged and installed by qualified personnel.
- Do not install with power applied to product.
- Do not install this product in humid, high-temperature environments or areas with direct sunlight.
- Good heat dissipation conditions can extend the product's service life. Please install the product in a well-ventilated environment.
- Please check whether the working voltage used meets the product's parameter requirements.
- Carefully read the manual instructions before installation.

2.Introduction

2.1 Model Encoding

DTP - 2 06 - U -	
	 Customized code (The default symbol is a number, and other patterns can be customized.) U or E Type
	- Number of Button per panel (U type : 06/04 , E type : 06/03)
	- DALI-2 version
	Series name(DALI Touch Panel)

2.2 Features

- DALI-2 touch panel, Compliant with IEC 62386-101, IEC 62386-103, IEC 62386-301 and IEC 62386-332.
- Compatible for DAL1-2 controllers.
- Powered by DALI bus without additional power supply.
- Configurable functionality via MEAN WELL DLC-02 software.
- Each button can trigger multiple modes: short press/double press/long press, to trigger scene or group functions.
- Backlight brightness adjustable.
- Touch panel volume adjustable.

2.3 Specification

SPECIFICATION				
MODEL	DTP-206-U	DTP-204-U	DTP-206-E	DTP-203-E
NUMBER OF BUTTONS	6	4	6	3
INPUT				
INPUT VOLTAGE	DALI bus 9.5V~22.5V	DC according to IEC	62386 regulation	
CURRENT CONSUMPTION	Typ. Current <4mA (a	at 16V) Inrush Cu	urrent <10mA	
START-UP TIME	300ms			
PROTOCOL	DALI-2			
FUNCTION	_			
DALI STANDARD	IEC62386-101, 103, 3	301, 332		
BUTTON EVENT	Short click, Double cl	ick, Long press		
BACKLIGHT	Three adjustable leve	els: high brightness, lo	w brightness, and off	
VOLUME	Optional to turn on or	off		
ENVIRONMENT				
OPERATING TEMP.	-20 ~ +50°C			
OPERATING HUMIDITY	10 ~ 93% RH; refer to EN50090-2-2			
STORAGE TEMPERATURE & HUMIDITY	-25 ~ +70°C, 10 ~ 95% RH			
SAFETY & EMC				
SAFETY STANDARD	BS EN/EN61347-1; BS EN/EN61347-2-11			
EMC EMISSON	BS EN/EN55015 ; FCC Part 15 CLASS B			
EMC IMMUNITY	BS EN/EN61547			
WITHSTAND VOLTAGE	DALI port-Case:1.5KVAC			
OTHERS				
WIRE SIZE	0.5~1.5 mm ² (AWG 20	0~16)		
SIZE/UNIT(L*W*H)	120 * 70 * 26.5mm		86 * 86 * 26.5mm	
PACKING	0.14Kg ; 48pcs / 6.8K	ig /2.33CUFT	0.13Kg ; 48pcs / 6.4k	(g / 2.33CUFT
MATERIAL	ABS+PC(Black)			
NOTE				
1. FCM is on a voluntary basis .				

2.4 Mechanical Dimensions

U Type : 6 Keys---Order No. : DTP-206-U

Unit:mm

3.5

4.5

4.5

48

48

DTD.



4 Keys---Order No. : DTP-204-U





E Type : 6-Keys---Order No. : DTP-206-E





3-Keys---Order No. : DTP-203-E





26.5

2.5 Function Description

2.5.1 Button and DALI port



The DTP-2XX series touch panels, as input devices, are integrated into lighting control systems compliant with the DALI-2 standard. When button actions occur (e.g., short press /double press /long press, etc.), different input event commands are generated. These commands can be received and responded by other controllers on the DALI bus, which then issue corresponding control commands to adjust the state of the lamps.

The button instance numbers of the DTP-2XX series are shown in Table below (in compliance with IEC 62386-301, Input Devices – Push Button).

Model	Button physical No.	DALI instance No.
	1	1
DTP-203-E	2	0
	3	2
	1	5
DTP-206-F	2	3
	3	1
D11 200 E	4	4
	5	2
	6	0

Model	Button physical No.	DALI instance No.
	1	2
	2	0
DTP-204-0	3	3
	4	1
	1	4
	2	2
DTP-206-U	3	0
200 0	4	5
	5	3
	6	1

2

According to the standard, the following INPUT NOTIFICATIONs are supported:

Event name	Event name Event Information Description	
Button released	00 0000 0000b	The button is released
Button pressed	00 0000 0001b	The button is pressed
Short press	00 0000 0010b	The button is pressed and released, without being pressed quickly again (in case of double press enabled), or the button is pressed and quickly released (in case of double press is disabled)
Double press	00 0000 0101b	The button is pressed and released, quickly followed by another button press
Long press start	00 0000 1001b	The button is pressed without releasing it
Long press repeat	00 0000 1011b	Following a long press start condition the button is still pressed, the event occurs at regular intervals as long as the condition holds
Long press stop	00 0000 1100b	Following a long press start condition, the button is released
Button free	00 0000 1110b	The button has been stuck and is now released
Button stuck 00 0000 1111b		The button has been pressed for a very long time and is assumed stuck

Additional instance parameters of push button such as event filter, event timings (short timer, double timer, repeat timer, stuck timer) can be configured according to the IEC 62386-301.

2

DALI terminals :

Connection type	Wire size	Stripping length	DALI bus voltage
Push-in	0.5~1.5mm ² (AWG 20~16)	8~9mm	9.5~22.5Vdc

2.5.2 Switches

The product has three built-in switches, allowing users to adjust the panel backlight brightness and turn the buzzer on or off according to their needs.



Switch No.	Function	Description	
SW51	Buzzer function setting	Turn on or off � : ON(Default) ×♥ : OFF	
SW52	LED brightness setting	Three adjustable levels ☆ : high brightness(Default) -☆ : low brightness o : OFF	
SW53	LED function setting	Set the LED to backlight function or feedback function (DALI IEC 62368-332) BL : Backlight function (Default) FB : Feedback function Note : 1 \ If the setting is changed, the panel needs to be powered on again to take effect. 2 \ Please refer to Chapter 2.5.3 for the feedback function	

2.5.3 Feedback Functionality

The DTP-2XX series DALI-2 touch panels provide visual feedback to inform users of the lighting system's status (e.g., the on/off status of a lamps). The visual feedback is implemented by the LED indicator of each button, which turns on or off according to the feedback value.

The instance numbers of the LEDs are as follows (according to the IEC 62386-332, Input Devices - Feedback):

Model	LED physical No.	DALI instance No.
	LED1	1
DTP-203-E	LED2	0
	LED3	2
DTP-206-E	LED1	5
	LED2	3
	LED3	1
	LED4	4
	LED5	2
	LED6	0

Model	LED physical No.	DALI instance No.
	LED1	2
	LED2	0
DTP-204-0	LED3	3
	LED4	1
	LED1	4
	LED2	2
DTP-206-11	LED3	0
200 0	LED4	5
	LED5	3
	LED6	1

Commands to activate and stop feedback:

Command Name	Opcode byte
ACTIVATE FEEDBACK	0X10
STOP FEEDBACK	0X11

Feedback variables and additional commands such as feedbackActive, feedbackTiming, feedbackActiveBrightness, feedbackActiveColour, feedbackInactiveBrightness and feedbackInactiveColour can be configured according to IEC 62386-332.

3.Installation

Please install with the touch panel powered off. ①Install an electrical junction box in the wall





European style

3

86 type ②Slide the glass cover upward and remove both the glass cover and

the back cover Slide upward and remove Latch

the glass cover

③Connect the DALI signal cable to the DA terminal on the back cover

④Put the back cover on the electrical box and fit it with the screws

⑤Snap the glass cover onto the back cover, slide it downward to fix it, and complete the installation



4. Wiring Diagram

DALI-2 Digital Lighting System Wiring Diagram (MEAN WELL DLC-02) controller has a built-in DALI bus power)



MEAN WELL DLC-02 controller, each channel can be connected up to 12 input devices. But the maximum number of input devices that can be connected is determined by the DALI bus power and operating current of the input device. For example, when 64(Lamps) LED drivers (2mA) are connected, the maximum remaining applicable current on the DALI bus is $250\text{mA} - (2\text{mA} \times 64) = 122\text{mA}$. If the current requirement of the input device is 10mA, then up to 12 input devices can be connected.

Please refer to DLC-02 manual: https://www.meanwell.com/Upload/PDF/DLC-02-E.pdf

5.Application examples

The DTP-2XX series touch panel input devices, combined with the MEAN WELL DLC-02 application controller and LED driver, form a DALI-2 digital lighting system. By using the DLC-02 PC software to scan the input devices and lamps on the DALI bus and configure parameters and effects, it is possible to achieve the control of DALI lamps' on/off, brightness, colour, groups, scenes, and various events, meeting daily lighting control needs.

Here is the relevant reference material link: DLC-02 Manual:

https://www.meanwell.com/Upload/PDF/DLC-02-E.pdf

DLC-02 PC software :



https://www.meanwell.com/Upload/PDF/DLC-02/DLC-02-SOP-E.pdf

5.1 "Group On/Off/Dimming" example

Taking office lighting as an example, the conference room is equipped with 4 DALI-2 panel lights, divided into 2 groups. The touch panel buttons are used to control the lighting changes of these 2 groups respectively.



- (1) MEAN WELL DALI-2 Devices and Application Software
 - A · Four DT6-type LED drivers, model: XLC-60-H-DA2
 - B < One 3-buttons DALI-2 touch panel, model: DTP-203-E
 - C One DALI-2 controller, model: DLC-02
 - D
 DLC-02 PC software



Note: For wiring diagram, please refer to the instructions in Chapter 4.

(2) Lamps grouping settings

- A \ LED 1~2: Group 1 B \ LED 3~4: Group 2
- C \ LED 1~4: Group 3

(3) Effect Settings



	Button No	Controlled object	Trigger Mode	Effect Description
			Short press	ON(100%)/OFF(0%)
	1	Group 1	Double press	50% brightness
			Long press	Adjust brightness up/down
	2 G		Short press	ON(100%)/OFF(0%)
		Group 2	Double press	50% brightness
			Long press	Adjust brightness up/down
			Short press	ON(100%)/OFF(0%)
	3	Group 3	Double press	50% brightness
			Long press	Adjust brightness up/down

(4) The implementation steps are as follows (Steps 1 to 3 can be configured offline, and Steps 4 to 5 require connecting to DALI devices for online operation):

Step 1: Set parameters such as virtual lamp type, group, and fade time In the "Installation" interface of the DLC-02 software, DALI parameters for lamps and input devices can be set.

Operation Details:

- Select LED 1 under virtual lamp, set the colour type to Normal Dimming, and set the fade time to 2 seconds.
- •Click **Bus Group Set Edit**, check **Group 1** and **Group 3**, and click **Save** to complete the setting.
- Using the same method: For LED 2, LED 3, and LED 4, set the colour type to Normal Dimming and the fade time to 2 seconds. Add LED 2 to Group 1 and Group 3. Add LED 3 and LED 4 to Group 2 and Group 3.





Step 2: Add and configure virtual input device instances %Add input device instances

Select **Device 1** under virtual input device. You can customize its name to "**DTP-203-E Touch Panel**". This virtual input device defaults to button sensor type with **1 button instance**. Right-click on the blank area of the instance table, select "**+Add**", and add **2 more button instances**.



*Configure the input device instance

Rename the three buttons as **Button 1**, **Button 2**, and **Button 3** (corresponding to the three physical buttons on the DTP-203-E). Check **Enable** for all buttons to activate them. Then click the **Setting** option to configure the button functions.

Instance #	Name	Туре	Enable	Setting
	Button 1	Button Sensor		Setting
	Button 2	Button Sensor		Setting
	Button 3	Button Sensor		Setting

As shown in the figure below, check the event filters related to "Short Press", "Double Click" and "Long Press", and set the event timer.

Event Filter		Event Timer		
Button pressed event enabled		Set short timer(mS)		500
Button released event enabled				
Short press event enabled	12	Set double timer(mS)		800
Double press event enabled				
Long press start event enabled	Ø	Set repeat timer(mS)	•	100
Long press repeat event enabled				
Long press stop event enabled	₽	Set shuck timer(5)	-0	20
Button stuck/free event enabled				

Note: For parameter descriptions of the input device, please refer to Section 4.3.3.4 of the DLC-02 Manual.

Step 3: Effect Configuration

The control logic between input devices (buttons) and lamp groups will be configured in the "Effects" interface. Click "+Add" to create an effect:

Concest The Control Server Hele Alexa Control Deen Control Control

Rename the effect as "Button1 Controls Group1", and move "Button 1" in the input area and "Bus A Group 1" in the output area to the right selection area.

Input	All Instance		~		All Instance	9		-
Name DTP-203-	Type E Touch Panel(A)	Properity	^		Name	Туре	Properity	
Button 1	Button	(IA)						
Button 2	Button	(IA)		>>				
Button 3	Button	(IA)		10000				
Device 20	A)							
Button 0	Button	(IA)		1				
Device 30	(A)			-				
Button 0	Button	(IA)		<				
Device 40	A)							
Button 0	Button	(IA)		<<				
Device 50	A)	808						
Button 0	Button	(IA)	4					
<		5.30	>					
Output	Bus A-Group		÷		All Output			
Name	Туре		~		Name	Type		
Group	1.2			>>				
Bus A Gro	oup0 Group							
Bus A Gro	oup1 Group				1			
Bus A Gr	oup2 Group							
Bus A Gro	oup3 Group			-	·			
Bus A Gro	oup4 Group			<				
Bus A Gro	oup5 Group							
Bus A Gro	oup6 Group			<<				

Select "Button 1", and under the "Lamp/Group" section:

For "Short Push": Select "Toggle (Level/Off)" and set the level to "100%".
For "Long Push": Select "Dimming (Enable ON/OFF)".

5

•For "Double Push": Select "Go to Level" and set the level to "50%".

Click "Save" to complete the configuration of the control effect between "Button 1" and "Bus A Group 1".

All Instanc	ce	Ú.	Colour Mode	Normal dimming ~
Name	Туре	Properity	Lamp / Group	
DTP-203-E Button 1	Touch Panel(A) Elotion	(44)	Short Push	Toggle(Level and OFF) ~
			Level Mode	O Last Level 🔹 Level
			Level	100.0 🕄 100
			·	6000K
			Scene	Scene 0
			Long Push	Dimming(Enable ON/OFF) ~
			Double Push	Go to Level ~
All Output		~	Level Mode	O Last Level
Name	Туре		1 mml	E0.0 1 50 8

Continue to add two more effects. Refer to the configuration method for Button 1 above to complete the configuration of the control effects for "Button 2" and "Bus A Group 2", as well as "Button 3" and "Bus A Group 3".

A total of three effects will be configured, as shown in the figure below:

All Effect	- Add		
EFFECT NAME	APUTOEXCE	OUTHIN GOADS	
Button1 Controls Group1	Butten 1;	Bus A Group1 ;	🖂 🗹 🛍
Button2 Controls Group2	Button 2 ;	Bue A Group?	⊙ ¢ û
Button3 Controls Group3	Button 3 .	Bus A Group3 .	0 C 🛍

Step 4:Pair Virtual Lamps and Input Devices with Actual Lamps and Input Devices

%Device Scanning

Connect the 4 XLC-60-H-DA2 lamps and 1 DTP-203-E input device in the conference room to the DALI-A bus of the DLC-02, then power on the AC supply. Use a USB cable to connect the computer to the USB port of the DLC-02.



DALI-A BUS

On the DLC-02 PC software, click "**Connection**" to establish communication between the computer and the DLC-02.



Then click "Scan – New Initialization" to scan for DALI devices online.

Now Ini	tialization		
Reinstall all de	vices in the sy	stem.)	
O System	Extension		
Load previous	setting and ad	d devices without co	infiguration.)

*Pair Virtual Lamps with Actual Lamps:

After device scanning is completed, click "**Bus A - Installation - lamp**". There are 4 Lamps on DALI Bus A. Select a lamp by its DALI address and click "**Flash**" for testing to locate the actual position of the lamp.

El Com El Ser						e-				intaliation Effect	
 DLC - 02 (1)-ID 1 BUS A 	î	Virtual Lar	np.						DALI Bus Lar	np/Right-click to #	odity the address
instatation		Name	Туре	Status	Group	Address	1	Auto Atogen	Address	Туре	Remak
Lamp		LED 1	Normal DL	· Unassigned;	1.3			Unaneign	0	Normal Di	•
Input Device		LED 2	Normal Di	 Unassigned 	1,3,				1	Normal Di	
= Vinua Lamp		LED 3	Normal Di	+ Unassigned	2,3,	+		10ta 4	2	Normal Di	•
LED 1		LED 4	Normal Di.	- Unassigned	2,3,				3	Normal Di	÷
		LED 5	Normal Di	+ Unassigned				30e			
		LED 6	Normal DL	- Unassigned				Tast			
LED 4		LED 7	Normal Dr	+ Unassigned				0	7		
-LED:5		LED 8	Normal Di	- Unassigned							
1111715		1 FD G	Normal (%	+ I Inaccinnat				OF	2		

According to the actual positions of the lamps, use the mouse to select the DALI lamps on the right area, and drag them to the corresponding positions of the Virtual Lamp on the left area to complete the pairing.

Virtual La	mp:					1			DALI Bus Lar	np(Right-click ti	o modify the address
Name	Туре		Status	Group	Address	^	Auto Assign		Address	Type	Remark
LED 1(Normal Di	٠	Assigned	1,3,	3		Unassign				
LED 2(Normal Di	+	Assigned	1,3,	2						
LED 3(Normal Di	+	Assigned	2,3,	1			Total:			
LED 4(Normal Di	•	Assigned	2,3,	0		-	11			
LED 5	Normal DL.	•	Unassigned		-			30s ~			
LED 6	Normal Di	•	Unassigned		-	100		Flash			
LED 7	Normal Di	•	Unassigned					0			
LED 8	Normal Di		Unassigned		-5			01			
LED 9	Normal Di	•	Unassigned					OFF			
LED 10	Normal Di		Unassigned								

*Pairing Virtual Input Devices with Actual Input Devices After completing device scanning, click "Bus A - Installation - Input Device". There is 1 input device on DALI Bus A. Select the device, and 3 button instances of the device will be displayed in the lower-right corner.

Virtual Device	r.									DALI Bus Devi	ce(Right-click to mo	tify the add	ress
Name	Туре		Status		Add	fress	^	Unase	ign all	Address	Rem	ark	
DTP-203-E T	OLL	8	Unasse	gned						0			
Device 2		1	Unassi	gned									_
Device 3		5	Unassi	gned				Unassign	Identity				
Device 4			Unassi	gned	-			Selection	Lievice				
Device 5			Unassi	gned	- 1								
Device 6		•	Unassi	gned									
Instance: (Se	elect the table	device at	xwe)							Instance: (Se	lect the table device	above)	
Instance #	Name	Туре		Statu	5	Address				Instance #	Туре	Address	
	Button 1	Butto	ns.	Unass	agned				Find	0	Button Sensor .	0	
2	Button 2	Butto	n S	Unass	igned	÷				1	Button Sensor ·	0	
_	Button 3	Butto	n S.	Unass	igned	-				2	Button Sensor +	0	

Use the mouse to select the instance number on the right area and drag it to the Virtual Device Instance position on the left area to complete the button pairing.

Instance 1, Instance 0, and Instance 2 are paired with Button 1, Button 2, and Button 3 respectively.

Note: For the button instance numbering table of DTP-203-E, please refer to Section 2.5.1.



Step 5: Finally, click "**Download – Device Parameter and Effect**" to download all device parameters and effect configurations to the lamps, input devices, and the DLC-02 controller. After the download is complete, you can use the DTP-203-E touch panel to control the lighting changes in the conference room.



5.2 "Colour Temperature/Scene" Example

Take hotel lighting as an example. The room is equipped with 4 tunable colour temperature panel lamps. The first 3 buttons of the touch panel are set to correspond to 3 scene modes respectively: Conversation Mode, Reading Mode, and Rest Mode. The 4th button controls the on/off of all 4 lamps simultaneously. Guests can quickly switch between different lighting scene according to their needs.



- (1) MEAN WELL DALI-2 Devices and Application Software
 - A Four tunable white LED drivers, model: LCM-40TW
 - $B\$ One 4-buttons DALI-2 touch panel, model: DTP-204-U
 - C One DALI-2 controller, model: DLC-02
 - D $\,^{\scriptscriptstyle \wedge}$ DLC-02 PC software



Note: For wiring diagram, please refer to the instructions in Chapter 4.

- (2) Lamps grouping and scene settings
 - A \ LED 1~LED 4 : Group 0
 - B < Conversation Mode: Scene 0, Group 0 brightness is 100% and colour temperature is 6500K
 - C
 Reading Mode: Scene 1, Group 0 brightness is 80% and colour temperature is 4500K
 - D < Rest Mode: Scene 2, Group 0 brightness is 10% and colour temperature is 3000K
 - E < Light On/Off : On: Group 0 brightness is 100% and colour temperature is 6500K Off: Group 0 brightness is 0%

(3) Effect Settings



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Button No	Controlled object	Trigger Mode	Effect Description
1			Trigger Scene 0: Conversation Mode (Brightness: 100%, Colour Temperature: 6500K)
2	Group 0	Short press	Trigger Scene 1: Reading Mode (Brightness: 80%, Colour Temperature: 4500K)
3	-		Trigger Scene 2: Rest Mode (Brightness: 10%, Colour Temperature: 3000K)
4			On (100%/6500K) , off (0%)

(4) The implementation steps are as follows (Steps 1 to 3 can be configured offline, and Steps 4 to 5 require connecting to DALI devices for online operation):

Step 1: Set parameters such as virtual lamp type, fade time, group and scene

In the "Installation" interface of the DLC-02 software, DALI parameters for lamps and input devices can be set. These four lamps will be configured with the same DALI parameters, so the **Template** function can be used to configure all four lamps at once.

Click "Bus A - Virtual Lamp - Template 1". In this template 1, set the colour type to Colour Tc and set the fade time to 2 seconds.



Click the colour icon and set the lamp colour temperature range to 2600–6500K (this colour temperature range is the specification of the LCM-40TW driver).

onfiguration	
Colour Temperature Tc Step Increment	1 Mirek
: Setting	
olour Temperature Tc Physical Warmest:	Colour Temperature Tc Physical Coolest:
BOOK	6500K
olour Temperature Tc Warmest:	Colour Temperature Tc Coolest:
600K	8500K

Click Bus Group Set - Edit, check Group 0.

roup		
	Group 0	Group 8
	Group 1	Group 9
	Group 2	Group 10
	Group 3	Group 11
	Group 4	Group 12
	Group 5	Group 13
	Group 6	Group 14
	Group 7	Group 15

Click "Single Light Scene Set - Edit" and set the brightness and colour temperature for "Scene 0", "Scene 1", and "Scene 2" respectively as shown in the figure below:

×

- •Scene 0: Brightness 100%, colour temperature 6500K (corresponding to Conversation Mode);
- •Scene 1: Brightness 80%, colour temperature 4500K (corresponding to Reading Mode);
- •Scene 2: Brightness 10%, colour temperature 3000K (corresponding to Rest Mode).



After the above parameter settings, click "Bus A - Virtual Lamp - Template", select Bus A and the "Template 1". In the virtual lamps table below, click "set" at LED 1 to LED 4 to complete the lamp parameter configuration.

= BUS A	Template is ap	pplied to selected bus B	us A	Selec	t template.	Template 1	v
■ Instalation - Lamp Input Device ■ Virtual Lamp ■ Template Template	Apply templat Apply templat Apply (scene) Manually spec	e to all virtual lamps. e to specified group(not ch template to specified group inv the template to be used	Apply hange group) p: d for virtual lan	Group 0 Group 0	y y	Apply Apply	
- Template 2	Name	Template	S	ettina	1		
Template 3	LED 1	Template 1		tec			
- LED 1	LED 2	Template 1		net			
LED 2	LED 3	Template 1	•	set			
-LED 3	LED 4	Template 1		fec			
- LED 4	LED 5	Template 1		set			
LED 5	LED 6	Template 1	*	oet			

Step 2: Add and configure virtual input device instances

XAdd input device instances

Select **Device 1** under virtual input device. You can customize its name to "**DTP-204-U Touch Panel**". This virtual input device defaults to **button sensor type** with **1 button instance**. Right-click on the blank area of the instance table, select "**+Add**", and add **3 more button instances**.

DLC - 02 (1)-ID:1 BUS A	DTP-204	4-U Touch	Panel					
■ Installation - Lamp Input Device	Reset	Read	Write					
Hereica Lamp Virtual Input Device DTP-204-U Touch Panel	Enable Applic	ation Controller						
- Device 2 - Device 3	DALI Addr	ess						
- Device 4 - Device 5	Number of	ion Instance	1					
- Device 6 - Device 7	GTIN FF-FF-FF-FF-FF							
- Device 8 - Device 9	(Right click the	Name	or delete instance.)	De				
- Device 10 - Device 11	-	Button 0	Bu	tton Sensor				
- Device 12 - Device 13			Delete +Add					
dd instance			×					
Button Sensor		3	•					
Light Sensor		0	•					
Occupancy Sensor		0	- -					
Absolute Sensor		0	-					
	Accept		Cancel					

*Configure the input device instance

Rename the four buttons as **Button 1**, **Button 2**, and **Button 3** and **Button 4** (corresponding to the four physical buttons on the DTP-204-U). Check **Enable** for all buttons to activate them. Then click the **Setting** option to configure the button functions.

nstance #	Name	Туре	Enable	Setting	
	Button 1	Button Sensor	Ø	Setting	
	Button 2	Button Sensor		Setting	
	Button 3	Button Sensor		Setting	
	Button 4	Button Sensor		Setting	

As shown in the figure below, check the **Short press event enabled**, and set the short press time to 500ms.

Configuration

vent Filter		Event Timer		
Button pressed event enabled		Set short timer(mS)		500
Button released event enabled				
Short press event enabled		Set double timer(mS)		200
Double press event enabled	•			
ong press start event enabled		Set reposit firmer(m5)	-0	160
Long press repeat event enabled				
ong press stop event enabled		Set stuck timer(5)	-0	20
Button stuck/tree event enabled				

Note: For parameter descriptions of the input device, please refer to Section 4.3.3.4 of the DLC-02 Manual.

Step 3: Effect Configuration

The control logic between input devices (buttons) and lamp groups will be configured in the "Effects" interface. Click "+Add" to create an effect:

C **	G	🗐 Sam An	d familie	(1) and	- Øinte	* Long line	Perman	(66668	÷	TRANSFE	
									1		
	All Elle	CL	Add								
10	10.0		Privile and				d Desetat				

Rename the effect as "Scene control", and move "**Button 1**" to "**Button 4**" in the input area and "**Bus A Group 0**" in the output area to the right selection area.

Effect Edit

Scene	e control					Save	Can	el
						Detail/List	Delete	e All
Input	All Instance		~		All Instand	29		v
Name DTP-204	Type U Touch Panel(A)	Properity	î		Name	Type	Properity	
Button 1	Button	(IA)						
Button 2	Button	(IA)		>>				
Button 3	Button	(IA)						
Button 4	Button	(IA)						
Device 2((A)		-					
Button 0	Button	(IA)						
Device 3((A)			<				
Button 0	Button	(IA)						
Device 4	(A)			~~				
Button 0	Button	(IA)						
Device 50	(A)							
<			>					
Output	Bus A-Group		Ŷ		All Output			¥
Name	Type		~		Name	Type		
Group	1.50			>>				
Bus A Gr	oup0 Group							
Bus A Gr	oup1 Group			>				
Bus A Gn	oup2 Group			1				
21.1319.521				25				

As shown in the figure, configure the control parameters for **Button 1** to **Button 4** respectively (including controlled lamp colour type, short-press execution effects, scene, brightness, colour temperature and other parameters). Click "Save" to complete the effect configuration.

	(Detail/List	Delete All	Lama Timo		
All Instanc	e		Colour Mode	Colour temperature	~
Name	Туре	Properity	Lamp / Group		1
DTP-204-U	Touch Panel(A)		Short Push	Go to Scene	
utton 2	Button	(A) (A)			
utton 3	Button	(A)	Levei Mode	C Last Level E Level	
utton 4	Button	(IA)	Level	100.0	100 9
				6000K	
			Scene	Scene 0	~
			Long Push	Disable	~
	Save	Cancel	Button 2		
	Save Detail/List	Cancel Delete All	Button 2		
JI Instanc	Save Detail/List	Cancel Delete All	Button 2 Lamp Type Colour Mode	Colour temperature	
II Instanc	Save Detail/List 29 Type	Cancel Delete All	Button 2 Lamp Type Colour Mode Lamp / Group	Colour temperature	×
II Instance Jame DTP-204-U	Save Detail/List 20 Touch Panel(A) Pointes	Cancel Delete All	Button 2 Lamp Type Colour Mode Lamp / Group Short Push	Colour temperature Go to Scene	~
II Instance ame DTP-204-U utton 1	Save Detsil/List Detsil/List Detsil/List Detsil/List Detsil/List Detsil/List Detsil/List Detsil/List Detsil/List Detsil/List	Cancel Delete All	Button 2 Lamp Type Colour Mode Lamp / Group Short Push	Colour temperature Go to Scene	~
II Instance ame DTP-204-U utton 1 utton 2 utton 3	Save Detail/List Detail/List Detail/List Detail/List Detail/List Button Button Button	Cancel Delete All v Properity (IA) (IA) (IA)	Button 2 Lamp Type Colour Mode Lamp / Group Short Push Level Mode	Colour temperature Go to Scene Last Level E Level	~
Il Instance ame DTP-204-U utton 1 utton 2 utton 3 utton 4	Save Detail/List 28 Type Touch Panel(A) Button Button Button Button	Cancel Delete All Properity ((A) ((A) ((A) ((A)	Button 2 Lamp Type Colour Mode Lamp / Group Short Push Level Mode Level	Colour temperature Go to Scene Last Level E Level 100.0	× 2 100
Il Instance ame DTP-204-U utton 1 utton 2 utton 3 utton 4	Save Detsil/List 20 Type Touch Panel(A) Button Button Button Button	Cancel Delete All v Properity (IA) (IA) (IA) (IA)	Button 2 Lamp Type Colour Mode Lamp / Group Short Push Level Mode Level	Colour temperature Go to Scene Last Level E Level 100.0 6000K	× • 100
I Instanc ame ITP-204-U atton 1 atton 2 atton 4	Save Detail/List Type Touch Panel(A) Button Button Button Button	Cancel Delete All	Button 2 Lamp Type Colour Mode Lamp / Group Short Push Level Mode Level	Colour temperature Go to Scene Last Level Level Colour temperature Level Colour temperature Level Colour temperature Level Scene 1	✓✓✓✓

All Instanc	e Detail/List	Delete All	Lamp Type Colour Mode
Name	Туре	Properity	Lamp / Group
DTP-204-U	Touch Panel(A)		Short Push
Button 1	Button	(IA)	
Button 2	Button	(IA)	Level Mode
Button 3	Button	(IA)	6,0,404,176,420
Button 4	Button	(IA)	Level
			Scene
			Long Push

	(Save Detail/List	Cancel Cancel Delete Al	Button 4		
All Instanc	e		Colour Mode	Colour temperature	~
Name	Туре	Properity	Lamp / Group		
DTP-204-U Button 1	VTP-204-U Touch Panel(A) utton 1 Button (IA)		Short Push	Toggle(Level/Tc and OFF)	-
Button 2 Button 3	Button Button	(IA) (IA)	Level Mode	O Last Level	
Button 4	Button	(IA)	Level	100.0 🗧	100 %
				6500K	
			Scene	Scene 0	-
			Long Push	Disable	~

Colour temperature

Go to Scene

C Last Level

6000K

Scene 2

Disable

E Level

0

₩ 100.0 : 100 %

All Effect	- Add		
STREET MARKE	MALTONICE .		
Scerve control	Button 1 stutton 2 stutton 3 stutton 4 :	Bus A Group?	0 12 11

Step 4:Pair Virtual Lamps and Input Devices with Actual Lamps and Input Devices

%Device Scanning

Connect the 4 LCM-40TW lamps and 1 DTP-204-U input device in the hotel room to the DALI-A bus of the DLC-02, then power on the AC supply. Use a USB cable to connect the computer to the USB port of the DLC-02.



On the DLC-02 PC software, click "Connection" to establish communication between the computer and the DLC-02.

5

lane	DLC - 02 (1)	
dmin password	*****	
	Show Password	Change Password
tee painent	Blow Paurword	Connect to change parametric
Connection type	USB	U C
levice ID	i.	÷
Desca ID: The corr DLC-02 (CD pervet DLC-02 ID: sex * in on be selected her	et satue meets to be Vilet in. dicates Hut Its 10 Sat not be 7	which can be served as the environment and who when

Then click "Scan – New Initialization" to scan for DALI devices online.



※Pair Virtual Lamps with Actual Lamps:

After device scanning is completed, click "**Bus A - Installation - lamp**". There are 4 Lamps on DALI Bus A. Select a lamp by its DALI address and click "**Flash**" for testing to locate the actual position of the lamp.

10 mm 13 s	ine 🛅 Swala	(District	diam.	-	Ghie	* Lave Ten	800	rection			instation Ethi	e)	
 DLC - 02 (1) ID BUS A 		Virtual La	np							DAL! Bus Lan	p(Right-click to	modify the	e address)
instaliation		Name	Туре		Stature	Group	Address	-	Ruto Averge	Address	Туре	Rem	rk
Lamp		1.ED 1	Colour Te	-	Unassigned	Ω.			Unanage	0	Colora To		
Linput D	HMC0	LED 2	Colour To	+	Unassigned	Ω,	÷.			1	Colour To		
= Venus Las	iiip ul Dawe	LED 3	Colour To	+	Unassigned	0,		- 11	Totat	2	Colour To		
-Group		LED 4	Colour To	+	Unassigned	0,				3	Colour To		
-Scene		LED 5	Normal Di	+	Unassigned				304 4				1
 BLIS B 		LED 6	Normal DL	•	Unassigned				Flash	1			
= Installation		LED 7	Normal Di	+	Unassigned				0				
-Lang		LED 8	Normal Dr.		Unassigned				ORT.				
- Method Law	HRHOTA	LED 9	Normal DL	*	Unassigned .				014				

According to the actual positions of the lamps, use the mouse to select the DALI lamps on the right area, and drag them to the corresponding positions of the Virtual Lamp on the left area to complete the pairing.

Virtual La	mp:					DALI Bus Lamp(Right-click to modify the add					
Name	Туре	Туре		Group	Address	2	Auto Assign	Address	Туре	Remark	
LED 1(Colour Te		Assigned	0,	0		Unaesign				
LED 2(Colour Tc		Assigned	0,	1	6					
LED 3(Colour Tc		Assigned	0,	2			tal:			
LED 4(Colour Tc		Assigned	0,	3						
LED 5	Normal Di		Unassigned		-		308	-			
LED 6	Normal Di	. •	Unassigned		-		El	1			
LED 7	Normal Di	•	Unassigned		-		100				
LED 8	Normal Di	•	Unassigned				10.5				
LED 9	Normal Di.		Unassigned		-		0	HF.			

%Pairing Virtual Input Devices with Actual Input Devices

After completing device scanning, click "**Bus A - Installation - Input Device**". There is 1 input device on DALI Bus A. Select the device, and 4 button instances of the device will be displayed in the lower-right corner.

Virtual Device	e -										DALI Bus Dev	ce(Right-click to mod	tify the addres
Name	Туре	Туре			Status		Address		Unassign all		Address	Rem	ark
DTP-204-U Tou.				Unassigned -							0		
Device 2			Unassigned -		÷.	-			1.0				
Device 3			Unassigned		ned	-			Unassign	kientily			
Device 4			Unassigned		*			Selection	Device				
Device 5			Unassigned -										
Device 6			Unassigned		÷.								
nstance: (Se	elect the table	device abi	we)			-		1.7			Instance: (Se	lect the table device	above)
Instance #	Name	Туре	pe		Status		Address				Instance #	Туре	Address
	Button 1	Butto	n S	÷	Unassigne		-			Find	0	Button Sensor -	0
3	Button 2	Butto	n S		Unassigned		2				1	Button Sensor .	0
		Button 5			Unassigned		-				2	Button Sensor .	0
ž.	Button 3	Butto											

Use the mouse to select the instance number on the right area and drag it to the Virtual Device Instance position on the left area to complete the button pairing.

Instance 2, Instance 0, Instance 3 and Instance 1 are paired with Button 1, Button 2, Button 3 and Button 4 respectively.

Note: For the button instance numbering table of DTP-204-U, please refer to Section 2.5.1.



Step 5: Finally, click "**Download – Device Parameter and Effect**" to download all device parameters and effect configurations to the lamps, input devices, and the DLC-02 controller. After the download is complete, you can use the DTP-204-U touch panel to trigger the lighting scenes in the room.



6.Button pattern customization

Customers can customize button patterns according to actual needs. Please refer the patterns below or provide your own patterns, then our factory can produce by laser engraving. Please contact sales for detailed customization procedures.

(Size must be $\leq 16.5*16.5$ mm)



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7.Warranty

This product provides five years warranty under normal usage. Do not replace parts or any form of modification to the product in order to keep the warranty effectively.

MEAN WELL possesses the right to adjust the content of this manual. Please refer to the latest version of our manual on our website. https://www.meanwell.com



8. Environmental declaration information

https://www.meanwell.com//Upload/PDF/RoHS_PFOS.pdf https://www.meanwell.com//Upload/PDF/REACH_SVHC.pdf https://www.meanwell.com//Upload/PDF/Declaration_RoHS-E.pdf

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