Inventronics DALI Driver Programmer Manual Instruction

1 Foreword	2
1.1 Objective	2
1.2 Background	2
1.3 Definition	2
2. Software Overview	3
2.1 Objective	3
2.2 Function	3
3. Operating Environment	3
3.1 Hardware	3
3.2 Software	4
4. Instruction	4
4.1 Software Installation	4
4.1.1 Install USB Driver and Serial Port Driver	4
4.1.2 Software Installation	5
4.2 Open Software	9
5. Start-up Interface	9
5.1 Start-up Interface	9
6. Operation Example	10
6.1 Software Online Update	10
6.2 Language Change between Chinese and English	10
6.3 COM Port Setting	11
6.4 Read/Save Configuration	12
6.5 Choose Serial and Model Number of Driver	13
6.6 Driver Working Area Curve	14
6.7 Choose CC/CV Mode	15
6.8 Choose Dimming Method	16
6.9 DALI dimming	17
6.10 AC dimming	18
6.11 Timer Dimming Curve Setting	20
6.12 Self-Adapt-Midnight Timer Setting	22
6.13 Self-Adapt-Percentage Timer Dimming Mode	24
6.14 OLC Curve Setting	25
6.15 OTP Setting	26
6.16 Offline Mode	27
6.17 Series and Model Number Matching	30
6.18 Read/Write to Driver/Programmer	31
6.19 Help	33
6.20 DALI Testing Command	34

1 Foreword

1.1 Objective

This document is the manual instruction for the programming software of Inventronics' DALI drivers, helping customer acknowledge the functions and methods of the software.

1.2 Background

Inventronics DALI drivers are based on the current constant power programmable drivers and add DALI dimming function. Applying to DALI protocol, it is able to consist maximum 64 addresses into a system with single lamp, group or broadcast mode, making turning on/off, screen and dimming etc. digital control.

1.3 Definition

DALI: (Digital Addressable Lighting Interface)数字可寻址照明接口 Please refer to DALI website: <u>http://www.dali-ag.org</u>

DALI Driver: Exx-xxxSxxxBx: Outdoor Constant Power DALI Driver LUD-xxxSxxxBx: Indoor Constant Power DALI Driver

2. Software Overview

2.1 Objective

Help customer aware of the installation and application method of the programming software.

2.2 Function

Function Description

- 1. Choose Product and Start-up
- 2. Online Software Update
- 3. Language Change between Chinese and English
- 4. Self-adaptive Programming Offline Mode
- 5. Read/Save Configuration
- 6. Set Series/Model Number
- 7. Constant Power Working Curve
- 8. Set the Maximum Output Current
- 9. Set Dimming Method (DALI, AC Dimming, Timer)
- 10. Set Timer Dimming Curve
- 11. Set OLC Curve
- 12. Set OTP Parameters
- 13. Matching Verification of Series and Model Number
- 14. Write/Read Configuration of Driver
- 15. Write/Read Configuration of Driver (Offline Mode)
- 16. DALI Testing Command

3. Operating Environment

3.1 Hardware

1Ghz above Processor (32 bits) 512Mb above RAM 20GB above available hard-disk space Mouse and Keyboard

3.2 Software

Operation system is WindowsXP or Windows7, with Microsoft.NET Framework 4.0 environment or higher version.

4. Instruction

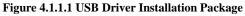
4.1 Software Installation

4.1.1 Install USB Driver and Serial Port Driver

See in Figure 4.1.1.1

- 1. Uncompress file USB_MCom.rar
- 2. Launch USB_MCom.exe
- 3. Enter installation interface, click Next, then click Finish





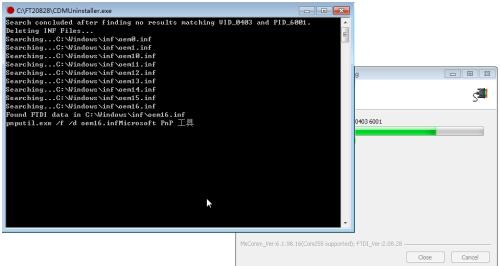


Figure 4.1.1.2

JSB_MCom.exe	2014/5/8 10:32	应用程序	1,547 KB	
	Stup: I SB_MCom 0.10.0.1 Setup: I	nstalling		
Device Driver Installation Wi	zard			S
	Welcome to the Device I Installation Wizard! This wizard helps you install the software of computers devices need in order to work.		Close	Cancel
	< 上一步 (B) 下 一步 (N) > 取消		

Figure 4.1.1.3

🚰 USB_MCom.exe	2014/5/8	10:32	应用程序	1,547 KB	
	🝠 USB_MCom 0.10.0.1	Setup: In:	stalling		
Device Driver Installation Wiza	ard.)	-
	Completing the De Installation Wizard The drivers were successfully ins You can now connect your devi ame with instructions, please re	talled on th	s computer. mputer. If your device		
	Driver Name	Status			
	 FTDI CDM Driver Packa FTDI CDM Driver Packa 	-		Close	Cancel
	〈上一歩 (8)	完成	取消		

Figure 4.1.1.4

4.1.2 Software Installation

- 1. Uncompress zip file Inventronics Multi Programmer Setup.zip
- 2. Double click and launch Inventronics Multi Programmer Setup.msi, seen in Figure 4.1.2.1
- 3. If no Microsoft.NET Framework 4.0 environment in the PC, then need to install Framework 4.0 first. Download link: <u>https://www.microsoft.com/zh-cn/download/details.aspx?id=17718</u>
- 4. Click Next, shown in Figure 4.1.2.2. Choose installation path, shown in Figure 4.1.2.3. Click Next again, shown in Figure 4.1.2.4. Continue with Next to Figure 4.1.2.5 showing

the installation process of the software. Then, click Close to finish the installation,





Inventronics Multi Programmer Setup.zip 360压缩 ZIP 文件

dotNetFx40_Full_x86_x64
Inventronics Multi Programmer Setup.msi

Figure 4.1.2.1 Inventronics Multi Programmer Setup Installation Package

😸 Inventronics Multi Programmer	
Welcome to the Inventronics Multi Programmer Setup Wizard	
The installer will guide you through the steps required to install Inventronics Multi your computer.	Programmer on
WARNING: This computer program is protected by copyright law and internation Unauthorized duplication or distribution of this program, or any portion of it, may re or criminal penalties, and will be prosecuted to the maximum extent possible unde	esult in severe civil
Cancel < Back	Next >

Figure 4.1.2.2 Inventronics Multi Programmer Setup Installation

岃 Inventronics Multi Programmer	
Select Installation Folder	
The installer will install Inventronics Multi Programmer to the following folder. To install in this folder, click "Next". To install to a different folder, enter it be	low or click "Browse".
<u>F</u> older: C:\Program Files\Inventronics\	Browse Disk Cost
Install Inventronics Multi Programmer for yourself, or for anyone who uses © Everyone Just me	this computer:
Cancel < Back	Next >

Figure 4.1.2.3 Inventronics Multi Programmer Setup Installation Path

🛃 Inventronics Multi Programmer	
Confirm Installation	
The installer is ready to install Inventronics Multi Programmer on your computer.	
Click "Next" to start the installation.	
Cancel < Back	Next >

Figure 4.1.2.4 Inventronics Multi Programmer Setup Installation

闄 Inventronics Multi Programmer	
Installing Inventronics Multi Programmer	
Inventronics Multi Programmer is being installed.	
Please wait	
Cancel < Back	Next >
Figure 4.1.2.5 Inventronics Multi Programmer Setup Instal	llation
📅 Inventronics Multi Programmer	- • •
Installation Complete	

Inventronics Multi Programmer has been successfully installed. Click "Close" to exit.

Please use Windows Update to check for any critical updates to the .NET Framework.

Cancel < Back Close

Figure 4.1.2.6 Inventronics Multi Programmer Setup Finish

4.2 Open Software

When installation is finished, a new folder 'Inventronics' is set in the start menu. 'Start' -> 'All Programs' -> Inventronics -> ProductInformation

Meanwhile, a shortcut icon (Inventronics Multi Programmer.exe) is created on the desktop. Both paths can open the software, shown in Figure 4.2.1.

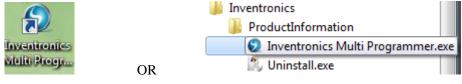


Figure 4.2.1 Software Launch Icon

5. Start-up Interface

5.1 Start-up Interface

Choose the product that is going to be programmed, including 0-10V dimming driver (Constant Power Driver), DALI driver (DALI Constant Power Programmer), Current Limiter (0-xV Dimmer) and Combo dimmer (Programmable Timer Dimmer).



Figure 5.1.1 Software Interface

6. Operation Example

6.1 Software Online Update

When the computer is connected to Internet, there will be an update notification when a new version is released. See Figure 6.1.1.

🕤 Update	23	
Current production	Latest production	
Version:0.0.0.0	Version:1.0.0.0	
Date2014.09.25	Date2014.09.25	
Update content: Add model validation Modify series name		
Now click" Update "button to get lastest version.		
Upate(13s) Can	<u>W</u> ebSite	

Figure 6.1.1 Update Interface

6.2 Language Change between Chinese and English

Software default language is consisted with the language of PC. If computer language is Chinese, then the software interface is Chinese. If computer language is English, then the software is English.

- DALI Driver 1.0.5.6		- • •
Serial Code:	Get It Help INVENT	RONICS
Select LED Driver Series LUD-060SxxxBS Model LUD-060S150B	66	ting Region 中文
Dimming	Com port COM19 Read CFG Read Driver 44 Matching V	
AC Dimming(DALI)	Off Line Write CFG Write to Driver 33 OTP Setting 22	
Timer(DALI) Enable OLC	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
DALI Test TimerSetting		1.2 1.5 1.8 Current(A)
	On Off Linear Curve Logari	Curve
		Up
(Output Power 254	
	Fade Time 🛛 🔲 Enable	
Driver User ID: NULL	Co	pyright(c) Inventronics,Inc. 🚊

Figure 6.2.1

6.3 COM Port Setting

When the connection between the programmer and PC is ready, the corresponding COM port number COMx shows on the software. If multiple USB serial port is used for programming, please make sure the COM port number is right before read/write the driver.

If the corresponding COM port is not found, make sure the connection is right and click Com Port to refresh the serial and find the corresponding serial port.

Also, software will verify offline function when refresh the com port.

DALI Driver 1.0.5.6		• ×
Serial Code:	Get IL Hep INVENTRON	ICS
Select LED Driver Series LUD-060SxxxBSF Model LUD-060S150BSF	Output Output Output Occ Max Current 1.5 A CV Max Voltage 57.14 C	中文
Timer(DALI)	P CFG Read Driver 44 Matching Z 33 Off Line Write CFG Write to Driver 33 TP Setting 22 Trigger Derated Recovery	
Enable OLC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	I.5 1.8 Current(A)
	Con C	
	own Up	
	Output Power 254	
	Fade Time 0 Enable	
Driver User ID: NULL	Copyright(c) Inventr	onics,Inc. 🚲

Figure 6.3.1

6.4 Read/Save Configuration

Save Configuration: save all the configurations (including serial number, model number, output mode, dimming method, OTP setting, dimming setting and OLC setting) on the software as Default.ini in PC for next time.

Read Configuration: choose Default.ini from PC and all the configurations will show on the software interface.

🛥 DALI Driver 1.0.5.6	×
Serial Code: Get It Help INVENTRONIC	S
Select LED Driver Output	_
Series LUD-060SxxxBSF	Z
Model LUD-060S150BSF CV Max Voltage 57.14	
Dimming Com port COM14 Read CFG Read Driver 44	
DALI Matching Matching	
AC Dimming(DALI) Off Line Write CFG Write to Driver 33	
OTP Setting 22	
Timer(DALI) Trigger Derated Recovery	
Enable OLC	
Int. $4.11K = \Omega$ 20 = % $16K = \Omega$ 0 0.3 0.6 0.9 1.2 1.5	1.8
DALI Test TimerSetting AC Setting OLC Setting	
Enable	
On Off Linear Curve Logari Curve	
E Down	
Output Power 254	
Fade Time 0 Enable	
Driver User ID: NULL Copyright(c) Inventronics,	nc:

Figure 6.4.1

6.5 Choose Serial and Model Number of Driver

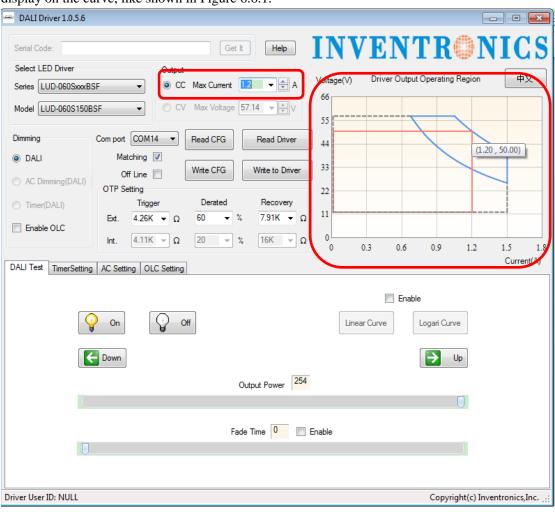
Choose corresponding serial and model number through pull-down menu.

DALI Driver 1.0.5.6		• 💌
Serial Code:	Get INVENTR®N	ICS
Select LED Driver Series LUD-060Sxx8SF LUD-060Sxx8SF LUD-040Sxx8SF LUD-040Sxx8SF LUD-040Sxx8SF LUD-040Sxx8SF LUD-040Sxx8SF LUD-040Sxx8SF LUD-040Sxx8SF LUD-040Sxx8SF LUD-040Sxx8SF LUD-200Sxx80F(7/N) EUD-150Sxx80F(7/N) Immark EUD-196Sxx80F(7/N) EUD-196Sxxx8DF EBS-040Sxx8DF AC LBD-075Sxx8DF EBS-160Sxx8DFE EBS-040Sxx8DFE Time EBS-080Sxx8DFE Enable OLC Int.	Output \bigcirc CC Max Current 1.5 \checkmark A \bigcirc CV Max Voltage 57.14 \checkmark \bigcirc V 114 \checkmark Read CFG Read Driver \bigcirc Write CFG Write to Driver \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc	中文
DALI Test TimerSetting AC Set	tting OLC Setting	Current(A)
On	Enable Linear Curve Logari Curve Up	
	Output Power 254	
(Ū	
	Fade Time 🔲 🗐 Enable	
Driver User ID: NULL	Copyright(c) Inven	tronics,Inc;

Figure 6.5.1

6.6 Driver Working Area Curve

Choose different serial number, the corresponding curve will show on the interface. The curve also changes along with the output current setting. Put cursor on the curve, the coordinate values



display on the curve, like shown in Figure 6.6.1.

Figure 6.6.1

6.7 Choose CC/CV Mode

CC Mode: Click radio button CC in Output Box, and choose Max. Current in pull-down menu; manually input or use up/down arrow to increase/decrease input current value are also possible. The programmable value step is 1% of maximum output current, while input value is other than that, it would go to the closet value.

CV Mode: Click radio button CV in Output Box, and choose Max. Voltage in pull-down menu; manually input or use up/down arrow to increase/decrease voltage value are also possible. The programmable value step is 1% of maximum output current, while input value is other than that, it would go to the closet value.

DALI Driver 1.0.5.6	
Serial Code:	
Select LED Driver Series LUD-060SxxxB Model LUD-060S150E	SF CV Max Voltage 1.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Dimming DALI AC Dimming(DALI) Timer(DALI) Enable OLC ALI Test TimerSetting	Com port COM14 Read CFG 0.9 Driver 44 Matching Write CFG Write to Driver 33 33 33 33 33 33 33 33 33 33 34 33 34 33 34 33 34 33 34 33 34 <
5	On Off Linear Curve Logari Curve
	Down Up
	Output Power 254
	Fade Time 0 Enable

Figure 6.7.1

6.8 Choose Dimming Method

There are 3 optional dimming methods:

- 1. DALI Dimming: only for DALI system
- 2. AC dimming: dimming through AC voltage, self-adapt to DALI.
- 3. Timer: three ways of timer dimming traditional timer, self-adapt-midnight and self-adapt-percentage, both time and dimming level are adjustable.

You can enable OLC

Enable OLC: check Enable OLC to enable the function. Reset time and read operation time are also possible. The default current is set to 80% and will gradually increase to 100% along with time.

Default setting is DALI dimming.

Serial Code: Get It Help INVENTR®NICS
Select LED Driver Output Operating Region 中文
Series EBS-160SxxxBTE
Model EBS-160S070BTE ○ CV Max Voltage 357.14 ↓ V 355
Dimming Com port COM14 Read CFG Read Driver 284
DALI Matching Write CFG Write to Driver 213
AC Dimming(DALI) Off Line Vinte CFG Vinte to Driver 142
Timer(DALI) Trigger Derated Recovery
Ext. 4.26K = Ω 60 = % 7.91K = Ω 71
Int. 4.11K Ω 20 % 16K Ω 0 0.14 0.28 0.42 0.56 0.7 0.8
DALI Test TimerSetting AC Setting OLC Setting Current(A)
Enable
On Off Linear Curve Logari Curve
Down
Output Power 254
Fade Time 0 Enable
Driver User ID: NULL Copyright(c) Inventronics, Inc.

Figure 6.8.1

6.9 DALI dimming

Choose DALI radio button, see in Figure 6.9.1.

ma DALI Driver 1.0.5.6	×
Serial Code: Get It Help INVENTR©NIC	S
Select LED Driver Output	-
Series EBS-160SxxxBTE	
Model EBS-160S070BTE CV Max Voltage 357.14	
Dimming Com port COM14 Read CFG Read Driver 284	_
DALI Matching Write CFG Write to Driver 213	_
AC Dimming(DALI)	
○ Timer(DALI) Trigger Derated Recovery 142	
Ext. $4.26K = \Omega$ 60 = % 7.91K = Ω 71	_
Enable OLC Int. 4.11K Ω 20 % 16K Ω 0	
0 0.14 0.28 0.42 0.56 0.7 Curren	0.84
DALI Test TimerSetting AC Setting OLC Setting	u(H)
Enable	
On Grow Linear Curve Logari Curve	
Cown Up	
Output Power 254	
l 🗍	
Fade Time 0 Enable	
Driver User ID: NULL Copyright(c) Inventronics,I	nc;;

Figure 6.9.1

6.10 AC dimming

Choose AC Dimming, and set parameters on the software. See in Figure 6.10.1.

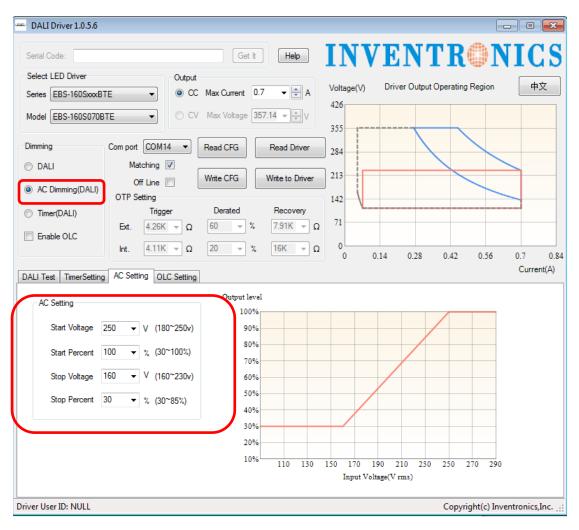


Figure 6.10.1

6.11 Timer Dimming Curve Setting

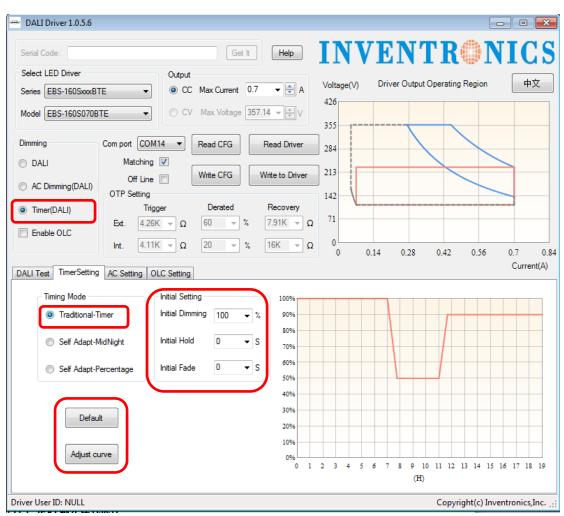


Figure 6.11.1 Traditional Timer Mode

6.11.1 Choose Timer Dimming

Check radio button: Timer

6.11.2 Choose Timer Mode

Choose Traditional-Timer

6.11.3 Default Setting

The initial operating curve is presented. Initial diming, initial hold time and initial fade time can also be set, and the default values are like shown in 6.9.1. When driver is powered on, the output works according to the operation curve.

6.11.4 Set Curve

After clicking Adjust Curve button, a secondary window appears. For each light level, there are 3 different sliding blocks for adjusting dimming, holding time and fading time separately. When dragging the blocks, the operation curve would also changes directly.

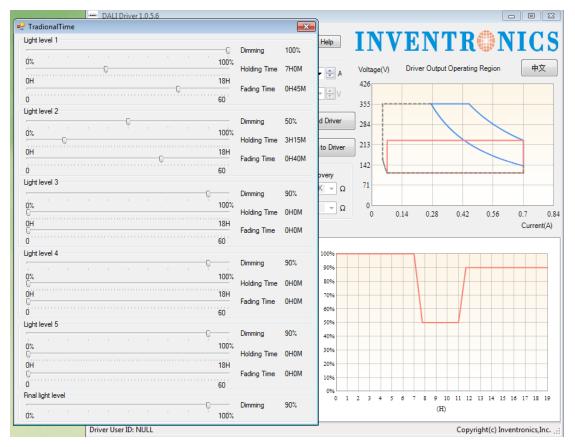
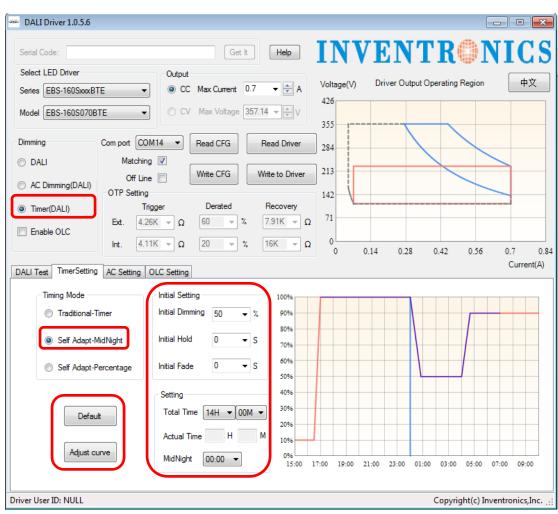


Figure 6.11.2

6.11.5 Default Curve

Click Default button, and the setting is back to the default curve.



6.12 Self-Adapt-Midnight Timer Setting

Figure 6.12.1 Self-adapt-midnight Timer Mode

6.12.1 Choose Timer Dimming

Check radio button: Timer

6.12.2 Choose Timer Mode

Choose Self-Adapt-Midnight Timer Mode

6.12.3 Parameter Setting

Initial dimming, holding time, fading time, total time and midnight time are all adjustable. The default values are shown in Figure 6.10.1. Driver could manage to change the starting/ending points of operation curve according to the last two days' turning on/off time.

6.12.4 Set Curve

After clicking Adjust Curve button, a secondary window appears. For each light level, there are 3 different sliding blocks for adjusting dimming, holding time and fading time separately. When dragging the blocks, the operation curve would also changes directly.

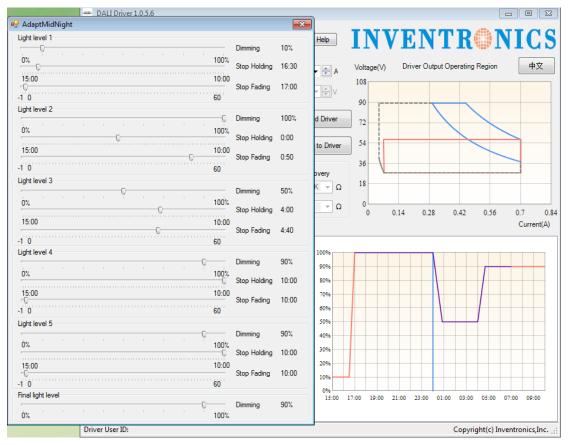
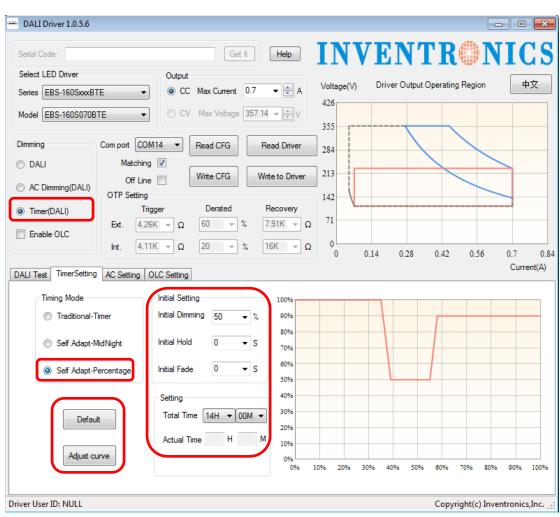


Figure 6.12.2

6.12.5 Default Curve

Click Default button, and the setting is back to the default curve.



6.13 Self-Adapt-Percentage Timer Dimming Mode

Figure 6.13.1 Self-Adapt-Percentage Mode

6.13.1 Choose Timer Dimming

Check radio button: Timer

6.13.2 Choose Timer Mode

Choose Self-Adapt-Midnight Timer Mode

6.13.3 Parameter Setting

Initial dimming, holding time, fading time and total time are all adjustable. The default values are shown in Figure 6.11.1. Driver could manage to change the dimming percentage of operation curve according to the last two days' working percentage.

6.13.4 Set Curve

After clicking Adjust Curve button, a secondary window appears. For each light level, there are 3 different sliding blocks for adjusting dimming, holding time and fading time separately. When dragging the blocks, the operation curve would also changes directly.

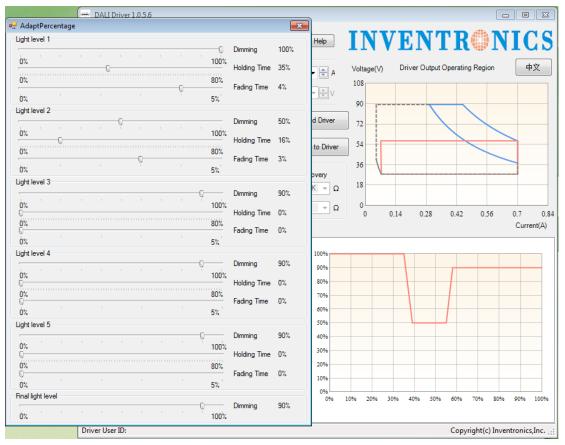


Figure 6.13.2

6.13.5 Default Curve

Click Default button, and the setting is back to the default curve.

6.14 OLC Curve Setting

Check Enable OLC. And it is able to set OLC curve, read OLC running time and reset times. Input required current percentage and time in the blanks.

Note: the unit of time is kHrs. The percentage range of output current is 60%-100%. Time range is 0-64kHrs.

Serial Code:			G	et It	Help	IN	VE1	NT	R		\mathbf{N}		
Select LED Driver		Output											~
Series EBS-160SxxxBT	re 🔹	OD (Max Current	0.7	▼ 🖨 A	Voltage(V)	Driver	Output Op	perating	Regio	n		×
Model EBS-160S070B	TE 🔻	© CV	Max Voltag	e 357.14	V	355							
)imming	Com port COM	14 🔻 🛛	Read CFG	R	ead Driver	284		$\mathbf{\Lambda}$		\smallsetminus			
DALI	Matching										\searrow		
AC Dimming/DALIN	Off Line		Write CFG	Wr	ite to Driver	213							
AC Dimming(DALI)	OTP Setting	_				142							
Timer(DALI)	Trigg		Derated		Recovery	71							
Enable OLC	Ext. 4.26K	Ω	60 -	% 7	.91K 👻 Ω								
	Int. 4.11K	Ω 👻	20 👻	% 1	6K – Ω	0	0.14	1 28	0.42	0.56	5 (0.7	(
_			20 -	% 1	6K 👻 Ω	0	0.14	0.28	0.42	0.56	5 ().7 Curren	
ALI Test TimerSetting		C Setting	20 -	% [1	6K 👻 Ω	-	0.14	0.28	0.42	0.56	5 (
ALI Test TimerSetting	AC Setting OI					-							
ALI Test TimerSetting	AC Setting OL	_C Setting				0							
ALI Test TimerSetting	AC Setting OL	_C Setting	mes Res			0		e device a					it(/
ALI Test TimerSetting	AC Setting OL H 00 M 81 82	.C Setting	mes Res	set is only	valid for 10m	0	r on,reboot th	e device a 92	after con	nfigurati	ons.	Curren)0
ALI Test TimerSetting	AC Setting OL H 00 M 81 82	C Setting	mes Res	et is only 86	valid for 10m	ins after power	r on,reboot th	e device a 92	after con 94	nfigurati 96	ons. 98	Curren)0
ALI Test TimerSetting PLC RunningTime Current (%) 80 Time (Kh) 8	AC Setting OL H 00 M 81 82	C Setting	mes Res	et is only 86	valid for 10m	ins after power	r on,reboot th	e device a 92	after con 94	nfigurati 96	ons. 98	Curren)0
ALI Test TimerSetting PLC Running Time Current (%) 80 Time (Kh) 8 00%	AC Setting OL H 00 M 81 82	C Setting	mes Res	et is only 86	valid for 10m	ins after power	r on,reboot th	e device a 92	after con 94	nfigurati 96	ons. 98	Curren)0
ALI Test TimerSetting DLC Running Time Current(%) B0 Time(Kh) B	AC Setting OL H 00 M 81 82	C Setting	mes Res	et is only 86	valid for 10m	ins after power	r on,reboot th	e device a 92	after con 94	nfigurati 96	ons. 98	Curren)0
ALI Test TimerSetting ULC Running Time Current (%) 80 Time (Kh) 8 00% 80%	AC Setting OL H 00 M 81 82	C Setting	mes Res	et is only 86	valid for 10m	ins after power	r on,reboot th	e device a 92	after con 94	nfigurati 96	ons. 98	Curren)0
ALI Test TimerSetting PLC Running Time Current (%) 80 Time (Kh) 8 00%	AC Setting OL H 00 M 81 82	C Setting	mes Ret	et is only 86	valid for 10m	ins after power	r on,reboot th	e device a 92	after con 94	nfigurati 96	ons. 98	Curren)0

Figure 6.14.1

6.15 OTP Setting

See in Figure 6.13.1.1. External OTP setting of trigger, dimming level and recovery is possible.

DALI Driver 1.0.5.6				- • •
Serial Code:	Get It		VENTR@ I	NICS
Select LED Driver	Output		Driver Outert Occupies Desire	中文
Series LUD-060SxxxB	F	▼ 🖶 A Voltage(V	Driver Output Operating Region	Ψ×
Model LUD-060S150B	SF CV Max Voltage 57.14	→ V 55		
Dimming	Com port COM14 Read CFG Re	ad Driver 44		
OALI	Matching 🔽			
AC Dimming(DALI)	Off Line Write CFG Write	e to Driver 33		
	OTP Setting	22		
Timer(DALI)		ecovery		
Enable OLC	Ext. 4.26K ▼ Ω 60 ▼ % 7	91K - Ω ¹¹		
		6K - Ω 0	0.3 0.6 0.9 1.2	1.5 1.8
DALI Test TimerSetting	30		0.5 0.0 0.5 1.2	Current(A)
DALI Test TimerSetting	AC Setting OLC Setting 10			
			Enable	
	On Off	Li	inear Curve	
	Down		Dp Up	
	Output	Power 254		
			Ū	
	Fade Time	0 Enable		
Driver User ID: NULL			Copyright(c) Ir	ventronics,Inc:

Figure 6.15.1

6.16 Offline Mode

The software would test offline function automatically when open it, see in Figure 6.16.1. If the function is fine, Offline is checked, otherwise, it's unchecked.

DALI Driver 1.0.5.6						
Serial Code:		Get It	Help	INV	ENTRO I	NICS
Select LED Driver	Output					
Series LUD-060SxxxBSF	DD (0)	Max Current 1	.5 🔻 📩 A	Voltage(V)	Driver Output Operating Region	中文
Model LUD-060S150BSF	F 👻 🔿 CV	Max Voltage 5	7.14 V	55		
Dimming	Com port COM14 💌	Read CFG	Read Driver	44		
Ø DALI	Matching 🗸					
AC Dimming(DALI)	Off Line	Write CFG	Write to Driver	33		
	OTP Setting			22		
Timer(DALI)	Trigger Ext. 4.26K → Ω	Derated	Recovery	11		
Enable OLC						
	Int. 4.11K v Ω	20 👻 %	16K 👻 Ω	0	0.6 0.9 1.2	1.5 1.8
DALI Test TimerSetting	AC Sett	mmer supports	s offline functiona	ality		Current(A)
					Enable	
	On O	ff		Linear	Curve Logari Curve	
₩				Linda	Logan carve	
÷	Down				Dp Up	
		0	utput Power 254			
		E- J	e Time 0	Enable		
		Falle		chable		
Driver User ID: NULL					Copyright(c) Ir	ventronics,Inc. ,;;

Figure 6.16.1 Testing offline function

Check Offline, meaning it is able to read/write programmer which could be used to program the driver offline. See in Figure 6.16.2.

DALI Driver 1.0.5.6		
Serial Code:	Get IL Help INVENTR®N	ICS
Select LED Driver	Output Ou	中文
Series LUD-060SxxxB		
Model LUD-060S150E	BSF CV Max Voltage 57.14 V	
Dimming OALI	Com port COM14 Read CFG Read Programmer 44 Matching V	
AC Dimming(DALI)	Off Line V Write CFG Write Programmer 33 OTP Setting 22	
Timer(DALI)	Trigger Derated Recovery	
Enable OLC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
DALI Test TimerSetting		1.5 1.8 Current(A)
DALI Test TimerSetting	g AC Setting OLC Setting	
	Enable	
<u> </u>	On Conff Linear Curve Logari Curve	
	Cown Up	
	Output Power 254	
	Ū.	
	Fade Time 🛛 🕅 Enable	
Driver User ID: NULL	Copyright(c) Inven	tronics,Inc. 💥

Figure 6.16.2 Read/Write to Programmer

Uncheck Offline, meaning online mode and could read/write to driver. See in Figure 6.14.3. This Online mode is default.

DALI Driver 1.0.5.6	- • •
Serial Code: Get It Help INVENTR	NICS
Select LED Driver Output	
Series LUD-060SxxxBSF	gion 中文
Model LUD-060S150BSF CV Max Voltage 57.14	
Dimming Com port COM14 Read CFG Read Driver 44	
DALI Matching	
AC Dimming(DALI) Off Line Write CFG Write to Driver 33 22	
Timer(DALI) Trigger Derated Recovery	
Enable OLC Ext. 4.26K • Ω 60 • % 7.91K • Ω ¹¹	
Int. 4.11K τ Ω 20 τ % 16K τ Ω 0 0.3 0.6 0.9	1.2 1.5 1.8
DALI Test TimerSetting AC Setting OLC Setting	Current(A)
Enable	
On Off Linear Curve Logari Curve]
Cown Up]
Output Power 254	
l (
Fade Time 0 Enable	
Driver ID: NULL Copyright	(c) Inventronics,Inc.

Figure 6.16.3 Read/ Write to Driver

6.17 Series and Model Number Matching

Online mode:

The default Matching mode means the software would verify if the driver is matching with the former written series and model number. If the data is coincident, continue to write settings to the driver. If not, the programming would not be allowed.

If uncheck the Matching mode, it means the software don't need a verification process, and can always write to driver.

Offline Mode:

With checked Matching mode, there is a verification process of the series and model number seeing if they are coincident with former setting.

With uncheck Matching mode, it means no verification, and configuration could be wrote to driver.

DALI Driver 1.0.5.6		• 💌
Serial Code:	Get It Help INVENTRON	ICS
Select LED Driver	Output	中文
Series LUD-060SxxxBS	SF ▼ OC Max Current 1.5 ▼ A Voltage(V) Driver Output Operating Region 66	
Model LUD-060S150B	BSF CV Max Voltage 57.14 V	
Dimming	Com port COM14 Read CFG Read Driver	
-	Com port COM14 V Read CFG Read Driver 44	
OALI	Product Series Matching Verify	
AC Dimming(DALI)	OTP Setting 22	
Timer(DALI)	Trigger Derated Recovery	
Enable OLC	Ext. 4.26K • Ω 60 • % 7.91K • Ω ¹¹	
	Int. 4.11K ¬ Ω 20 ¬ % 16K ¬ Ω 0 0.3 0.6 0.9 1.2	1.5 1.8
DALI Test TimerSetting		Current(A)
DALI Test TimerSetting	g AC Setting OLC Setting	
	Enable	
	On Off Linear Curve Logari Curve	
	Cown Up	
	Output Power 254	
	Fade Time 0 Enable	
Driver User ID: NULL	Copyright(c) Inven	ropics Inc.
Driver User ID: NULL	Copyright(c) Inven	romes,mer ₁₁₁

Figure 6.17.1

6.18 Read/Write to Driver/Programmer

Online Mode:

Write to Driver: when the setting on the software are all ready, click Write to Driver and the configurations can be written to the driver. If the data is transmitted successfully to the driver, there will be a pop up box with 'Success'. Otherwise, the pop up box would be saying 'Failure'.

Read Driver: read the configuration of the driver and show on the software.

See in Figure 6.18.1.

DALI Driver 1.0.5.6		- • 💌
Serial Code:		ICS
Select LED Driver	SF ▼ Output Output Operating Region	中文
Model LUD-060S150B		
Dimming	Com port COM14 Read CFG Read Driver 44	
OALI	Matching V Off Line Write CFG Write to Driver 33	
AC Dimming(DALI)	Off Line VViile CPG Vviile to Driver	
Timer(DALI)	Trigger Derated Recovery	
Enable OLC		
	Int. 4.11K • Ω 20 • % 16K • Ω 0 0.3 0.6 0.9 1.2	1.5 1.8
DALI Test TimerSetting	AC Setting OLC Setting	Current(A)
	Enable	
	On Con Linear Curve Logari Curve	
	Down Up	
	Output Power 254	
	Ū.	
	Fade Time 🔲 🥅 Enable	
Driver User ID: NULL	Copyright(c) Inv	entronics Inc
2	copyingin(c) inv	and a stress, and a

Figure 6.18.1 Read/Write to Driver

Offline Mode: when the setting on the software are all ready, click Write to Programmer and the configurations can be wrote to the driver. If the data is transmitted successfully to the driver, there will be a pop up box with 'Success'. Otherwise, the pop up box would be saying 'Failure'.

Read Programmer: read the configuration of the programmer and show on the software. See in Figure 6.18.2.

DALI Driver 1.0.5.6		- • 💌
Serial Code:		NICS
Select LED Driver Series LUD-060SxxxBS		Region 中文
Model LUD-060S150BS	SF CV Max Voltage 57.14 C	
	Com port COM14 Read CFG Read Programmer 44	
AC Dimming(DALI)	Off Line Vitte CFG Write Programmer	
Timer(DALI)	Trigger Derated Recovery	
Enable OLC	Ext. $4.26K \cdot \Omega$ $60 \cdot \chi$ $7.91K \cdot \Omega$ 11 Int. $4.11K \cdot \Omega$ $20 \cdot \chi$ $16K \cdot \Omega$ 0 $0.3 \cdot 0.6 \cdot 0.9$	1.2 1.5 1.8
DALI Test TimerSetting		Current(A)
	Enable	
9	On Off Linear Curve Logari Curve	•
K	Down	P
	Output Power 254	
	Fade Time 0 Enable	
Driver User ID: NULL	Соругіз	ht(c) Inventronics,Inc;

Figure 6.18.2 Read/Write to Programmer

6.19 Help

You could find the software manual instruction through Help, see in Figure 6.19.1.

DALI Driver 1.0.5.6		
Serial Code:		IC
Select LED Driver Series LUD-060SxxxB Model LUD-060S150E	Output ISF ▼ Output Overating Region 66	中文
Dimming DALI AC Dimming(DALI) Timer(DALI) Enable OLC	Com port COM14 Read CFG Read Driver 44 Matching ✓ ✓ ✓ Off Line Write CFG Write to Driver 33 OTP Setting 22 Trigger Derated Recovery Ext. 4.26K Ω 60 % 7.91K Ω Int 4.11K Q 20 % 16K Q 0	1.5 1 Current(A)
	Con Coff Curve Linear Curve Logari Curve Up	
	Output Power 254	
	Fade Time 0 Enable	

Figure 6.19.1

6.20 DALI Testing Command

Choose DALI test interface which includes turn on/off, linear/logarithm curve, output power level and fade time. See Figure 6.20.1.

- 1. Turn on Light
- 2. Turn off Light
- 3. Enable curve setting. Please check 'Enable' to set the curve
- 4. Set linear curve
- 5. Set logarithm curve
- 6. Reduce 1 level of output power
- 7. Increase 1 level of output power
- 8. Set output power level
- 9. Set fade time. Please check 'Enable' to start setting.

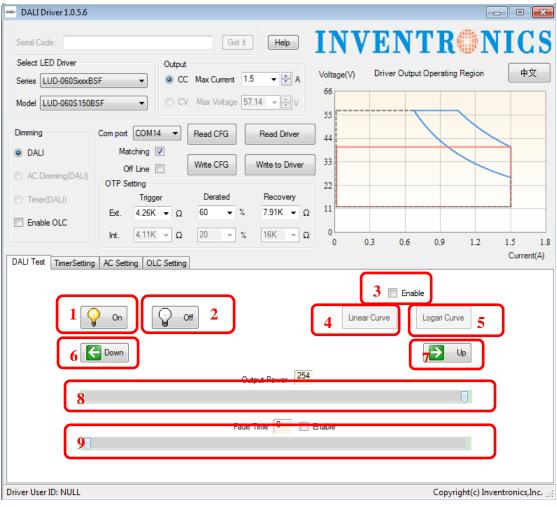


Figure 6.20.1 Test Command