PEOPLELINK DALI CONTROLER V1.0

Features:

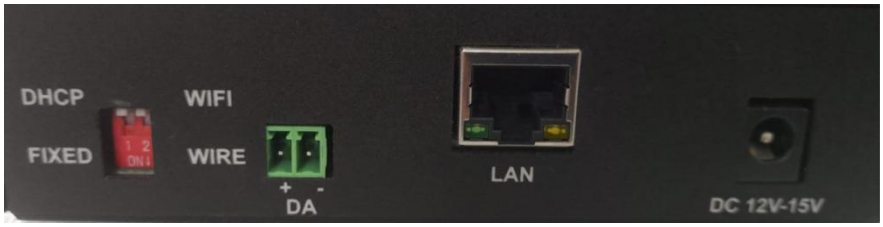
1. Standard Dali interface and control/configure through web GUI.
2. LIGHT ON/off /dim function through web GUI.
3. The built-in PS bus is used for power supply.
5.Built in WiFi /Wired LAN connectivity, IP info shows on display

Standard DALI signals are used to control brightness and on/off, 64 devices can be controlled at the same time, and 16 scene & 16 groups can be configure for control. can be realized through web GUI. Match a variety of Dali driver on the market accurately control the brightness.

INPUT voltage	12-22VDC 2A
Dali Bus o/p Voltage	12-18VDC , 125mA
Dimming Range	1-100%
Dimming Interface	DALI (IEC62386)
Load	64 devices
Network Mode	Wired/Fixed/WiFi/AP select with switch
Function :	
Scene	16 scène light level configurable
Groups	16 Device Groups configurable
Driver Configure	Dimmer driver Powerfail, SysFail, Max, Min levels configurable, Short Address set.
System Configuration	System Parameters Like IP address, WiFi SSID, Password, AP SSID, Login name password, Login bypass configurable
Deafault Configuration	
Login user name	Admin
Login Password	abcd
AP SSID *	Insta_xxxx (xxxx linked with mac id)
AP Password	123456789 (fixed Not configurable)
WiFi SSID	peoplelink
WiFi password	peoplelink
Fixed IP / AP Fixed	192.168.2.161
Others	

*WiFi / AP mode works 10 to 15 Meter distance from the router, use with Wired mode usage recommended if more distance from the router.

DaliController Front and rear Image.



DaliC GUI Configuration Procedure

SysConfig: System IP Configuration for the first Time or Change to New One

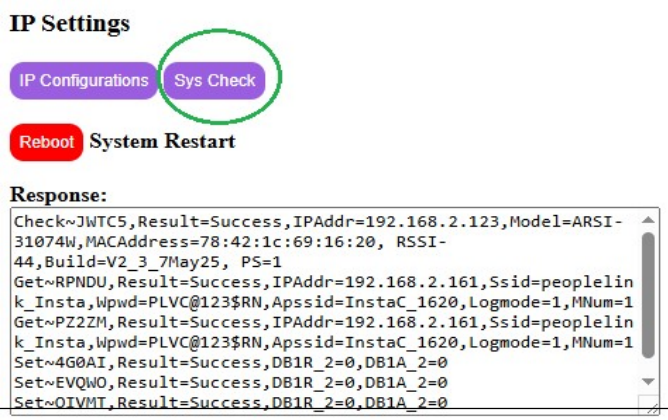
New Dali Controller IP configuration need to set the Wifi SSID and password to use WiFi mode.
Note : Change the rear panel dip switches combination for respective mode.

Options 1: Wired DHCP Mode - Connect the unit LAN cable to the WiFi Router (default 192.168.2.x series) LAN port and power ON in wired DHCP or Fixed Mode.

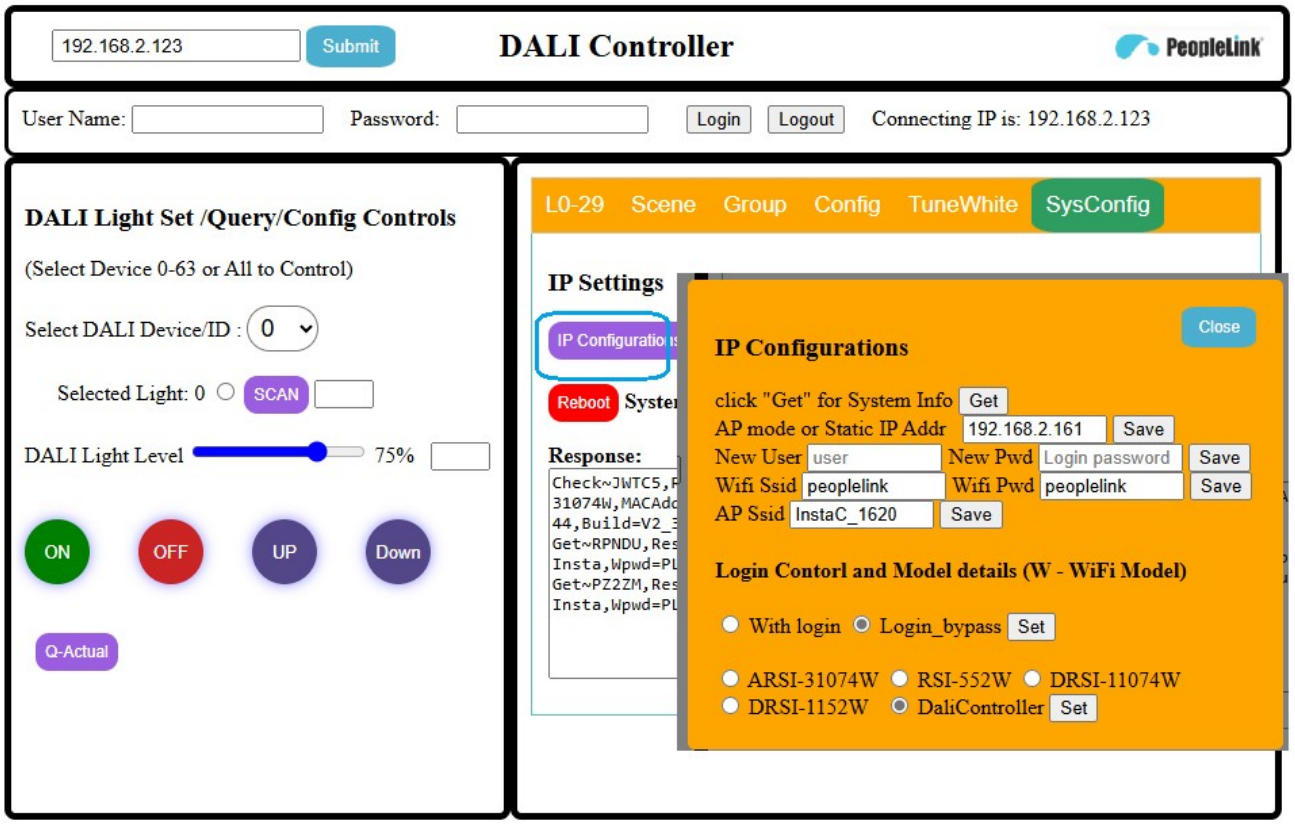
Option 2 : Wired DHCP mode with any router - Power On with wired DHCP mode and see the display for allocated IP address.

Option 3 : Wired Fixed mode with any router - configure the router in 192.168.2.x IP series, Power On with wired Fixed mode and see the display for allocated IP address.

Option 4 : WiFi DHCP - Power on Dali Controller in WiFi AP mode, PC/laptop/Android tab search and connect to the Hotspot/AP ssid of the DaliController, configure the Local WiFi ssid & password using web GUI, restart the unit with WiFi DHCP mode and see the Display lists the connected IP address.



Connectivity Check : on submit IP address on GUI and "Sys Check" to see the controller response.



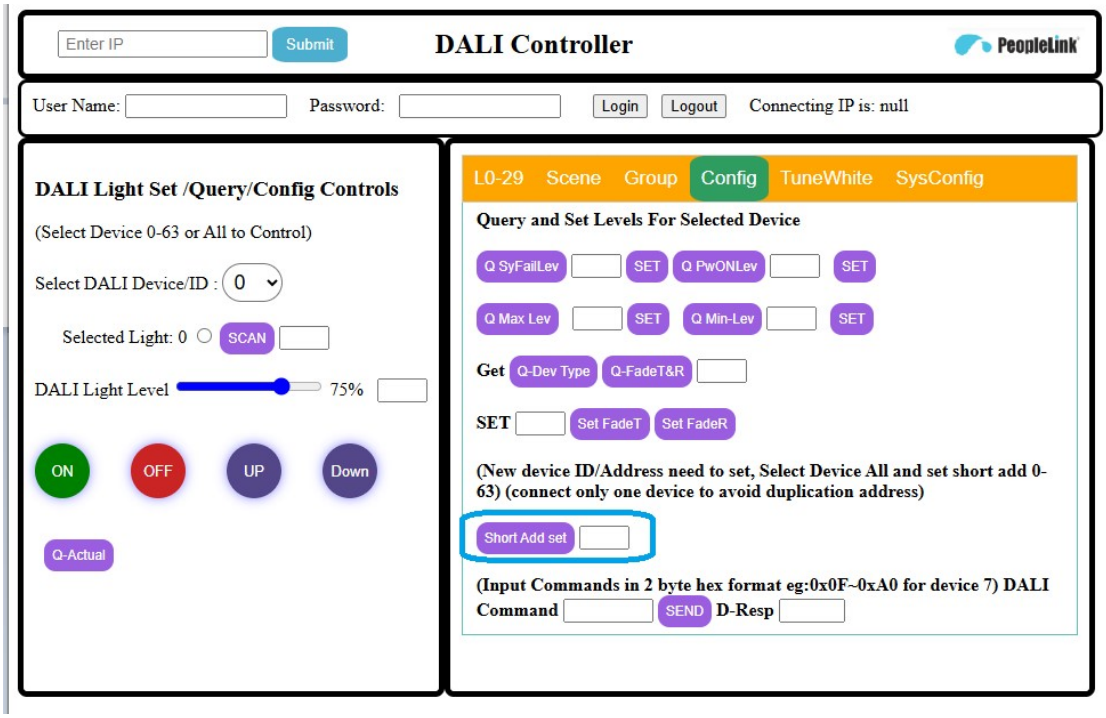
PPL DaliController IP address submit on UI text box and submit to save and connectivity, check connectivity status by SysConfig->"Sys Check". "Sys Check" test Login not compulsory. Other button functionality required login with user name and password. Login_bypass enabled case login not required. New Units comes with Login_bypass enabled condition, can be enable/disable on user choice. Submitted IP address saves Locally on GUI.

DALI Light Set /Query/Config Controls : DALI bus supports 64 light devices (0-63) , using this UI user can select the devices 0 to 63 or all. "Scan" button uses for particular device availability/active status check. Based on this device selection only UI other configure and control tabs working. Users can select the device individually or all to make ON/OFF from here. Using slider selected device level can be vary from 33% to maximum.

Config:

New LED Driver configure ID (short address and Light Levels:

All new LED drivers are coming with address/ID 0xFF. Need to configure the short address in the range of 0-63 using the controller GUI Config tab



Short Add Set : Connect only New LED driver to the dali bus , Select DALI Device ID "All" from drop down , required ID number in to the text box near to the "Short Add Set" and click "Short Add Set" to apply the change. Next time ID / Short address can be change by selecting previously configured ID. Avoid ID(short address) duplication in the dali bus. If not remembering the ID connect only required device on bus,select device "All" , apply by click "Short Add Set"

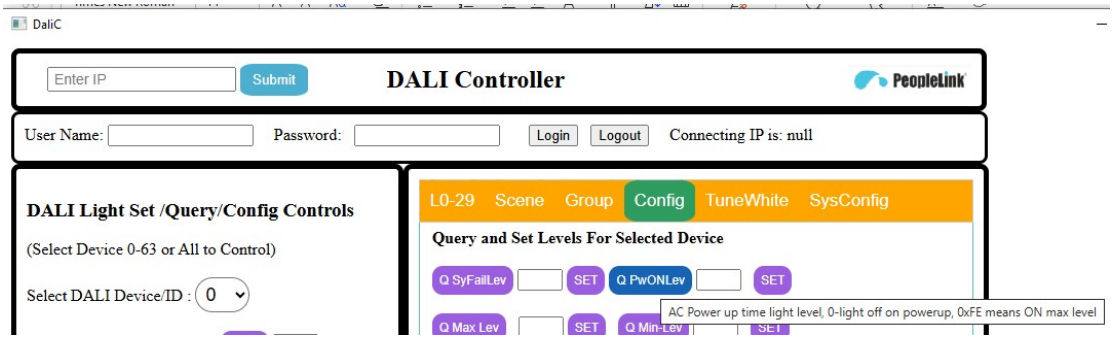
Each Led driver PowerFail / SysFail, Max/Min level also can be configured here.

PowerFail Level : This is the Light level on AC Power UP, Select the Led Light Driver ID and Value and Set. Currently set value can be check by using Q PowONLev button. By default New devices comes with Maximum level. Set to 0x0 for disable to off state on AC power ON.

SysFail Level : This is the Light level on dali bus failed/Controller Not powered ON or bus removed state for the Selected Led Light Driver. Currently set level can be check by using Q SysFailLev button.
By default New devices comes with Maximum level. Set to 0 for off state on dali bus power fail/daliController off/ dali bus not connected state.

Max Level and Min Level : This is the max and Minimum light levels of selected LED Light Device. Default value will be 0xFE and 0x55, some of the make LED driver minimum value may not be configurable , Can be check the current value using "Q Max-lev" / Q Min-lev. No need to adjust these levels normally.

Note : windows “DaliC” application mouse pointer keeps on top of the button will shows the help tips for respective button.

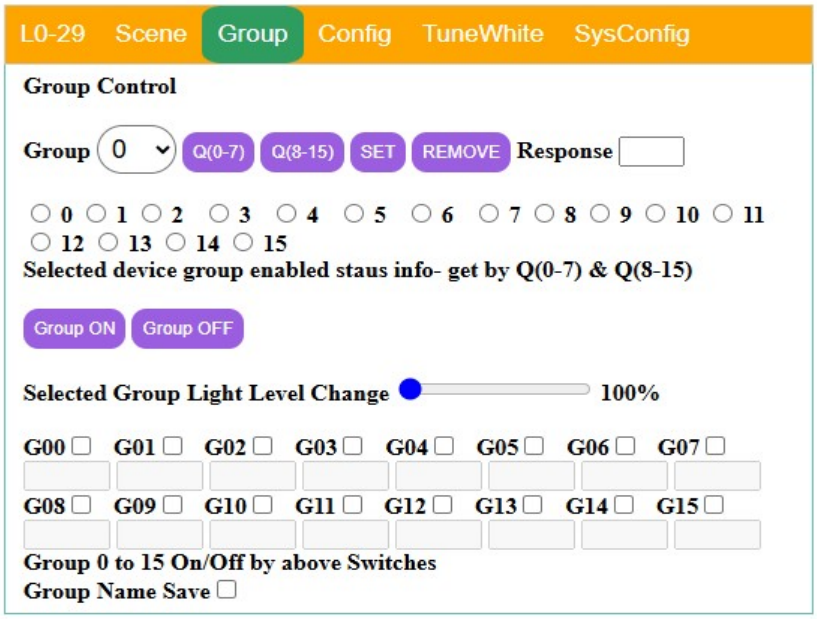


LED driver FadeTime and FadeRate can be Get using Q-FadeT&R and Set using “SetFadeT” and SetFadeR”. This no need change normally. Default values are Time= 0 (no delay) ,Rate =7, combined format shows 0x07.
“Command” text box for input command feeding, this use case is for the trained/qualified engineers. Dali Protocol commands can feed using this.

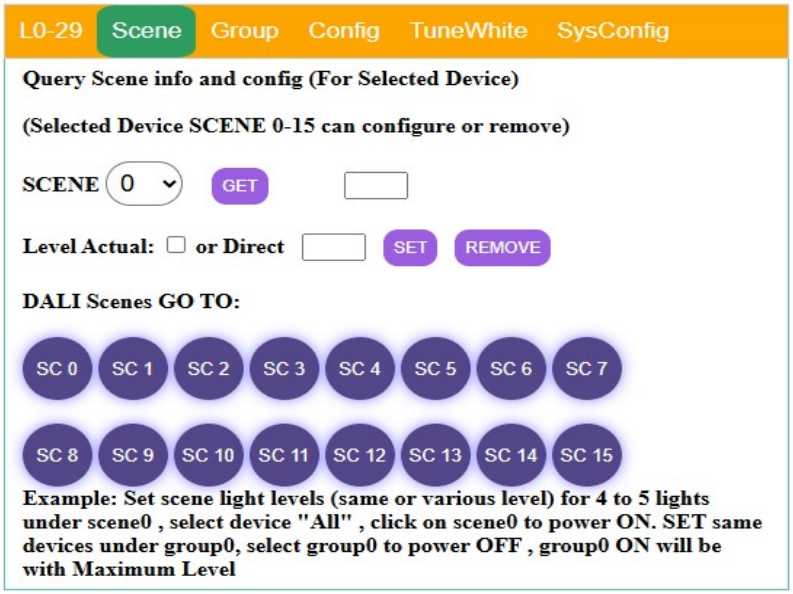
TuneWhite :

DaliC supports controlling of DT8 CCT Led drivers with 3in1 lights. This application tab uses for configuring 3in1 LED drivers (CCT3:1 or DT8) and Lights. Can change these type Lights Cool white (7000kelvin) to Warm white (1000kelvin) change and enable.

Group : One Dali bus supports total 16 Light groups, this can be configured and control under this tab. One Light/Driver can be member of 16 groups. Q(0-7) for get the selected device group 0-7 includes status. Q(8-15) for gets the 8 to 15 included status. Selected Device can be add(Set) or remove from the group. Round buttons shows is the selected device enabled Group status. Selected group wise can be ON/OFF or light level can vary using slider.
Using each check box group wise Lights can be ON/OFF ,check buttons below text box can be used for labeling the groups information for user identification. “Group Name Save” box tick for input the group name and un-check / un-tick for saves it to locally. This data saves locally on tab or pc application locally, if the same label data required on PC type the data on PC application and same type in android TAB.



Scene: One dali bus supports 16 Light Scene levels for each Light driver, these can be configured and control under this tab. “GET” will show the selected devices selected Scene light level value. response 0xFF indicate that respective Scene not enabled for the selected device. Can be “Set” the current active Light level or Direct value (0x55 to 0xFE) entered on the input box, similarly scene can be “REMOVE” for the selected device.



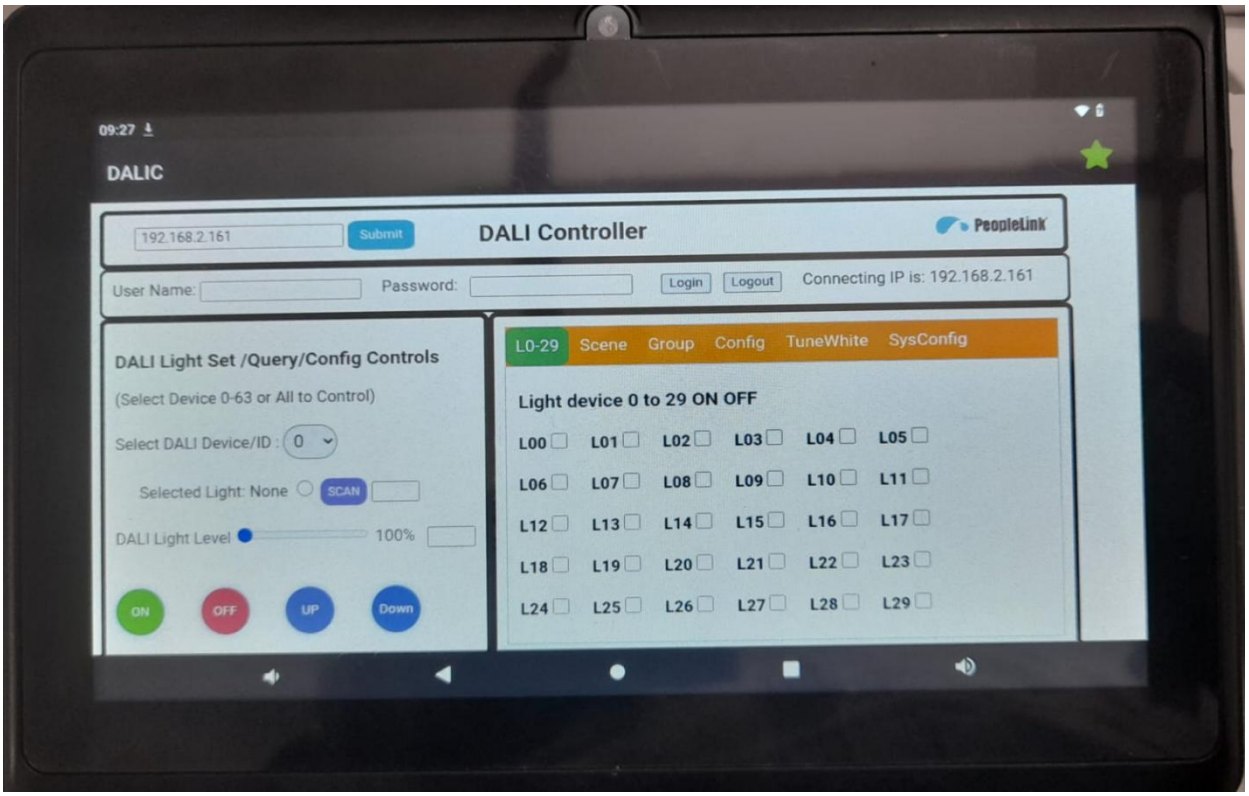
GO TO : by apply “SC0” - “SC15” selected device or “all” configured light level can be made ON.

Example : Scene0 all devices configured level as 0 , Scene1 configured all devices 75% (equal hex 0xBE/decimal value 190).

Device select all, on SC 1 clicks all lights will light at 75% level. On click SC 0 - all lights will be OFF. Similar way various combination can be set.

L0-29: This tab can be used for quick or direct select and controls for 0-29 ID devices individually like ON or OFF.

DALIC_1.1 App on 7" android Tab.



For Application refer below link

https://github.com/sudeepPpl/Insta_conf_update_Proj/tree/main/Insta_DaliC

DALI CONTROLLER and Driver Wiring Diagram