

Integration Note

Manufacturer:	Niko
Model Number(s)	Niko Home Control (Lighting)
Minimum Core Module Version:	7.3.271
Document Revision Date	02/03/2016 – v2.0.2

OVERVIEW AND SUPPORTED FEATURES

This driver talks to the Niko HC IP interface to enable control of the lighting system within a Niko Home Control installation.

THIS NIKO HOME CONTROL DRIVER SUPPORTS THE FOLLOWING FEATURES:

Any feature not specifically noted as supported is not supported.

Lighting Load Control: Control of lighting dimmer and relay devices in the Niko Home Control systems is supported with full two way feedback.

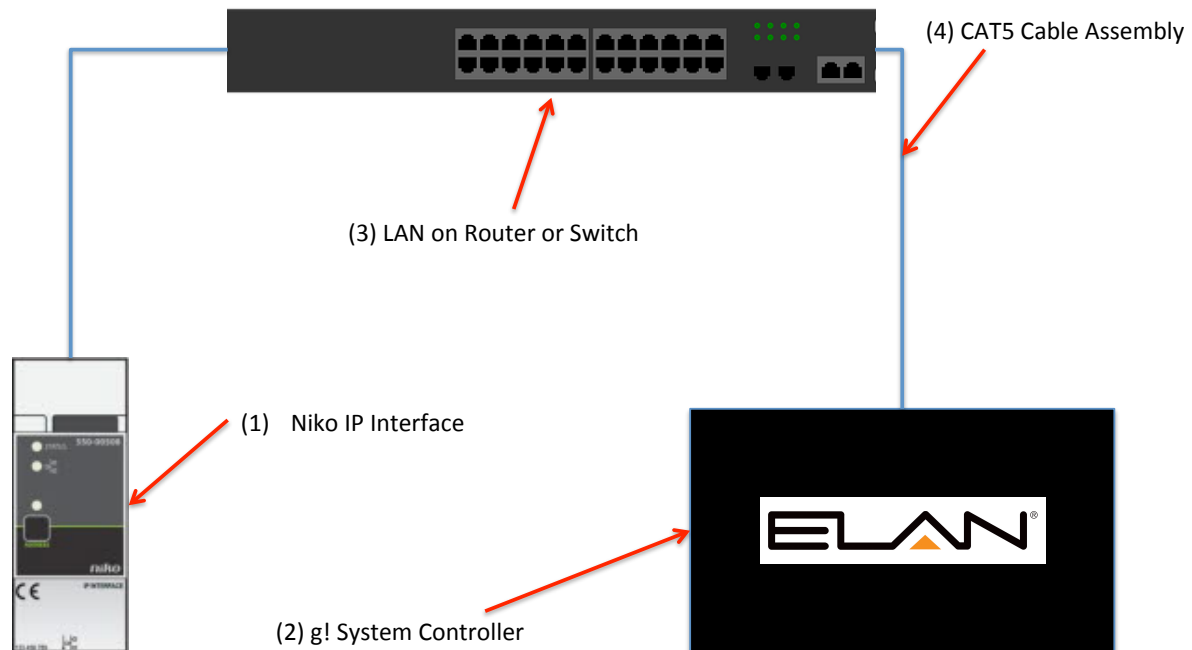
Schedule Control: Multiple schedules can be set using the Viewer software allowing timed control of the Niko Home Control system.

Scene Creation: The g! system can be used to create lighting scenes and also offer the ability for the user to create custom scenes within the GUI.

Event Mapping: Event mapping allows events in Niko Home Control (such as a lighting coming on) to initiate a command (or group of commands) in g!

CONNECTION DIAGRAM: ETHERNET CONTROL

Refer to the **Bill of Materials** and **Wiring Diagram** that follow.



BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Niko IP Interface	Niko	550-00508	Ethernet	RJ-45 Female	If Niko Gateway follow Niko's installation documentation
2	g! Controller	ELAN	g1, SC2, or SC10	Ethernet	RJ-45 Female	
3	Network Assembly	Various	Various	Ethernet	RJ-45 Female	
4	CAT5 Cable Assembly	Installer	N/A	Ethernet	RJ-45 Male – RJ-45 Male	Terminate all 4 pairs and test

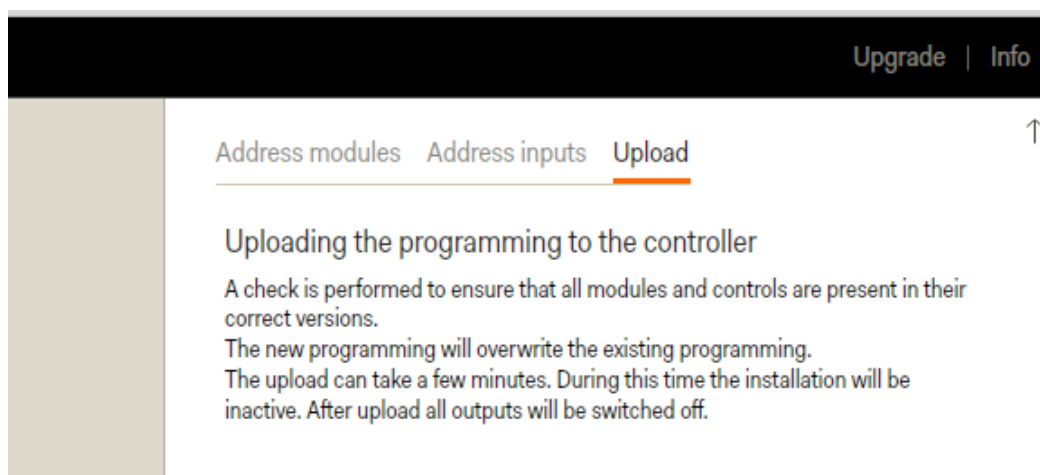
NIKO HOME CONTROL CONFIGURATION FOR ETHERNET CONTROL

The Niko system must first be programmed using the “Niko Home Control” software. This can be downloaded, alongside documentation from: <http://www.nikohomecontrol.eu>

When programming, remember to add in a smart phone device with all of your actions that you want to use in Elan linked to it, as this is the part of the programming that talks to the IP interface.

When creating your plant file in Niko Home Control, it is important to adhere to good labelling practices. Ensure all actions are labelled clearly and descriptively, as these are the labels that Elan will use to auto-populate the driver.

Ensure that all programming that has been created in the software has been uploaded (and thus stored) to the Niko Home Control Modules:



Assigning a Static IP Address to the IP Interface

From version 2.0.0, the Core Programming Elan Driver now automatically finds the IP interface, however, it is possible that the IP Address of the Niko IP Interface may change when your router restarts. The driver is designed to rediscover on system reboot in case of this, though it is good practice to reserve the IP address to the Mac Address of your Niko IP interface. This setting is carried out inside your router. Please refer to your specific model instructions, as procedures vary between manufacturers.

Gathering Niko Circuit Identifications

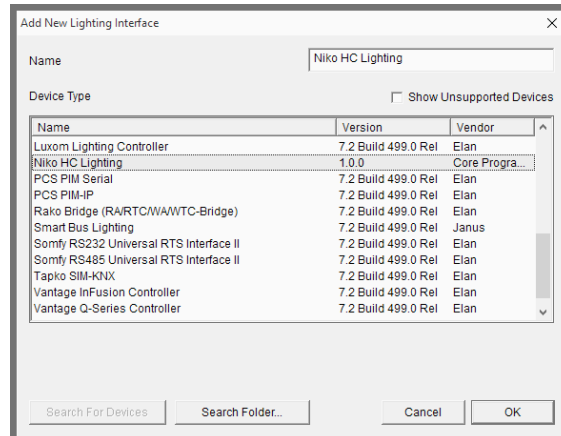
From version 2.0.0, the driver is now able to programmatically add all actions linked in your Niko plant file as discussed below. It is possible to manually add these using the “Action Numbers”, though it is recommended to use the built in discovery process.

Driver Activation

To enable all features to work, this driver needs to be activated. Activation keys can be purchased directly from Core Programming (www.coreprogramming.co.uk) or (depending on your region) via your Elan Distributor. Only one activation key is required per project, allowing multiple installations of this driver in that project. Details on how to activate the driver are included below in the Configuration Setup below.

G! CONFIGURATION

In the Lighting tab in Configurator, right click on LIGHTING INTERFACES then ADD NEW LIGHTING INTERFACE... select **Niko HC Lighting** from the list and click OK:



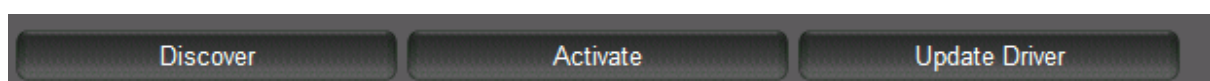
From version 2.0.0 onwards the IP address and Port will auto populate after a few seconds:

Lighting Interface : Niko HC Lighting

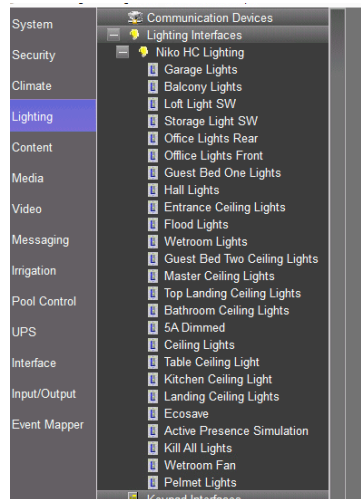
Name	Niko HC Lighting
System #	32076
Driver Version	2.0.2
Driver Vendor	Core Programming Limited
Device Type	Niko HC Lighting
Activation Key	97707881
IP Address	192 . 168 . 1 . 55
Port	8000

For the driver to function beyond this point, an Activation Key is required. To activate the driver and enable functionality enter the key received from Core Programming, or your Elan Distributor in the designated box and click ACTIVATE. This is a one time only process and will not need to be repeated, whilst your key remains within the Activation Key field.

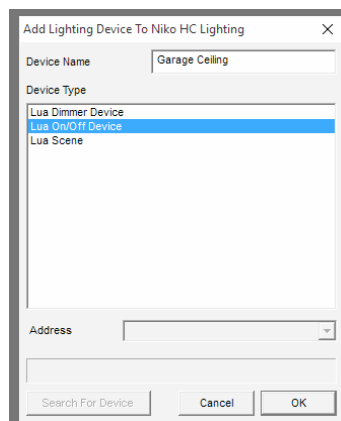
The driver is able to automatically discover all linked actions in your Niko Home Control system. In order to do this simply click the “Discover” button at the base of this configuration page:



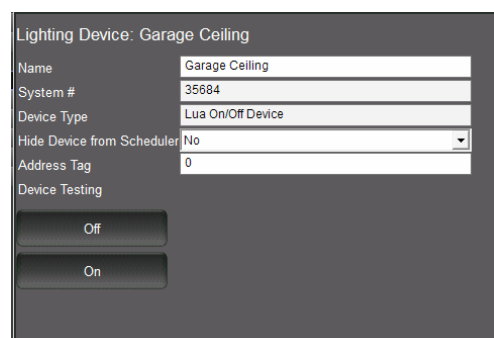
This will cause all actions to be added as either dimmers or switches under the LIGHTING INTERFACE TAB:



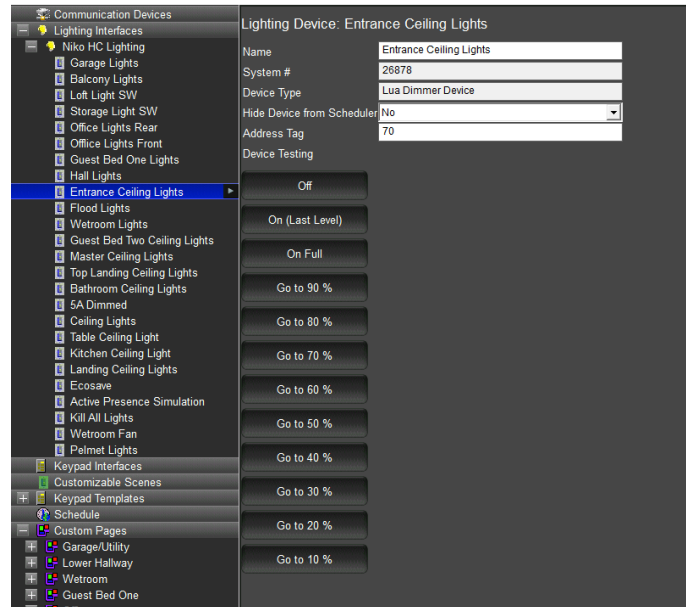
Circuits can also be added manually if you know the unique action ID. ****This method is not recommended and is only included in this guide for completeness****. Under the NIKO HC LIGHTING device that you've just added, right click LIGHTING INTERFACES and click ADD NEW DEVICE. Enter the name of your circuit and choose whether this is a dimming circuit or a switched circuit:



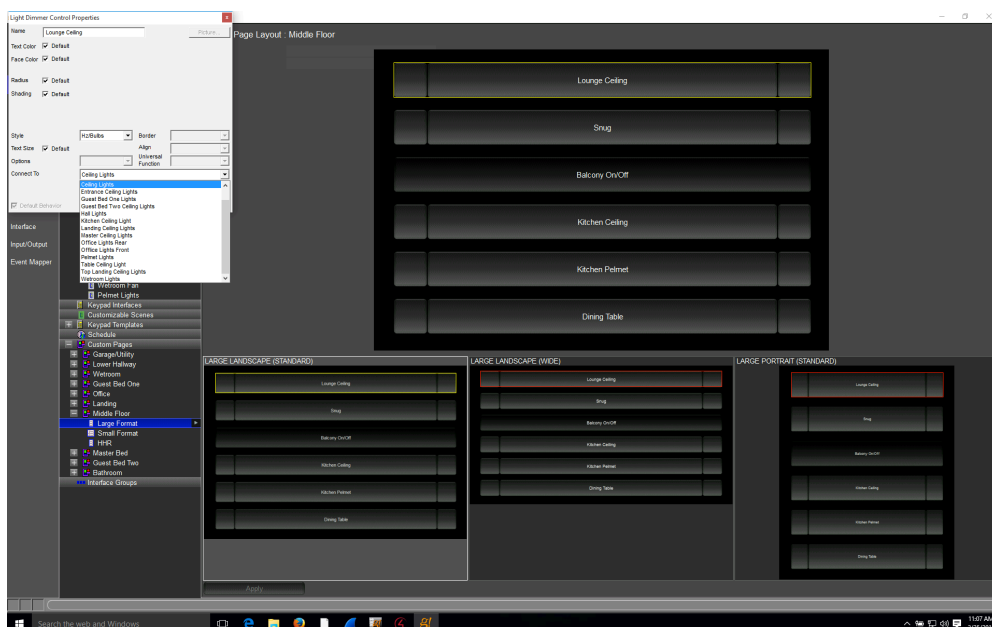
In the ADDRESS TAG, enter the unique ID value:



You can then use the Device Testing buttons to confirm functionality of the lights:



You are then able to continue normal configuration, such as linking these lights to custom interfaces. Please consult the g! Configurator Training Manual for more details:



G! CONFIGURATION DETAILS

The following table provides the settings used in the g! Configurator. Please refer to the Configurator Reference Guide for more details.

- <Select from List> Select the appropriate item from the list (or drop-down) in the configurator
- <User Defined> Type in the desired name for the item
- <Auto Detect> The system will auto detect this variable
-

Refer to the g! System Programming Details below for additional information.

Devices	Variable Name	Settings (Ethernet)
Communication Device	Built in to the Lighting Interface	
Lighting Interface	Name	<User Defined> (Default: Niko HC Lighting)
	System#	<Auto Detect>
	Device Type	Niko HC Lighting
	IP Address	<Auto Detect> (UDP Discovery)
	Port	<Auto Detect> (Default: 8000)
Lighting Devices	Name	<Auto Detect> or<User Defined>
	System#	<Auto Detect>
	Device Type	<Auto Detect> or<User Defined>
	Hide Device From Scheduler	<Select from List> (Default: No)
	Address Tag	<Auto Detect> or<User Defined>

COMMON MISTAKES

No response from any of the lights

- Check that the IP address of the Niko IP Interface is correct
- Check that your Niko Programming has all lighting actions linked to a smart phone device
- Test functionality through Niko's own smart phone app

REVISION LIST

2.0.2 – Activation added

2.0.1 – Removal of traces

2.0.0 – Extensive rewrite of code to additional new functions including auto discovery of IP address and programmatic discovery of lighting devices.

1.2.0 – Full rewrite giving much improved performance, minimising impact on g! system resources

1.1.0 – Optimisations and tweaks

1.0.0 – Driver Launched

ELAN Developer Partner Information

This ELAN driver was written and supported by:



Core Programming Limited | www.coreprogramming.co.uk