



DiscoMan User Guide

Mass lamp configuration in a flash
V3.0

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Introduction

DiscoMan is the new discovery and management tool for the easiest setup and configuration of Raytec lamps.

A major improvement over the existing discovery tool, users can now setup multiple lamps at the same time, providing significant time savings during commissioning. It is also now much easier to rename lamps, or assign them to a group, meaning you can quickly create clusters of lamps to reflect their location on-site. Meanwhile, single lamp setup is still just as straightforward, retaining the simple look and feel of the existing discovery tool.

Users can now also configure settings such as the lamp mode, photocell and external input triggers, all through DiscoMan. No longer does this need to be done individually via each lamp's web interface.

DiscoMan is the all-in-one tool designed to make the setup and configuration of Raytec lamps, simple, quick, and easy.

System requirements

- Windows 10
- .NET Framework 4.6.2

Installation note

You may see the following warning when running the DiscoMan installer:

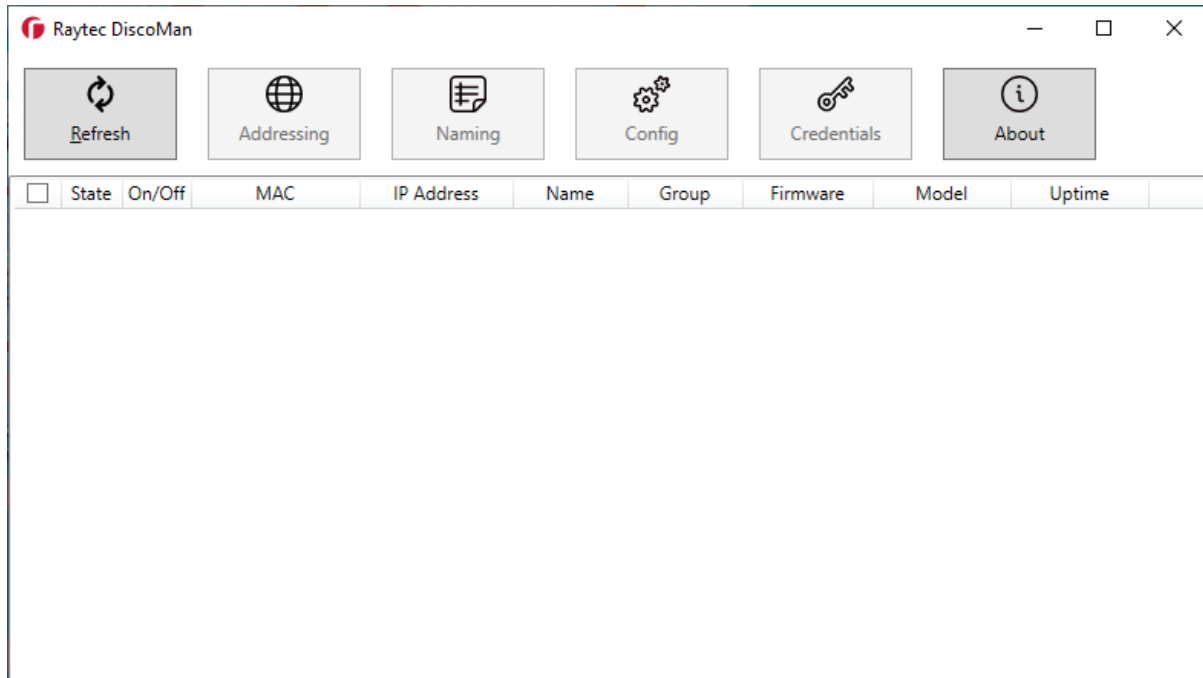


If you have downloaded the DiscoMan Installer from the Raytec website, click "*Run anyway*".

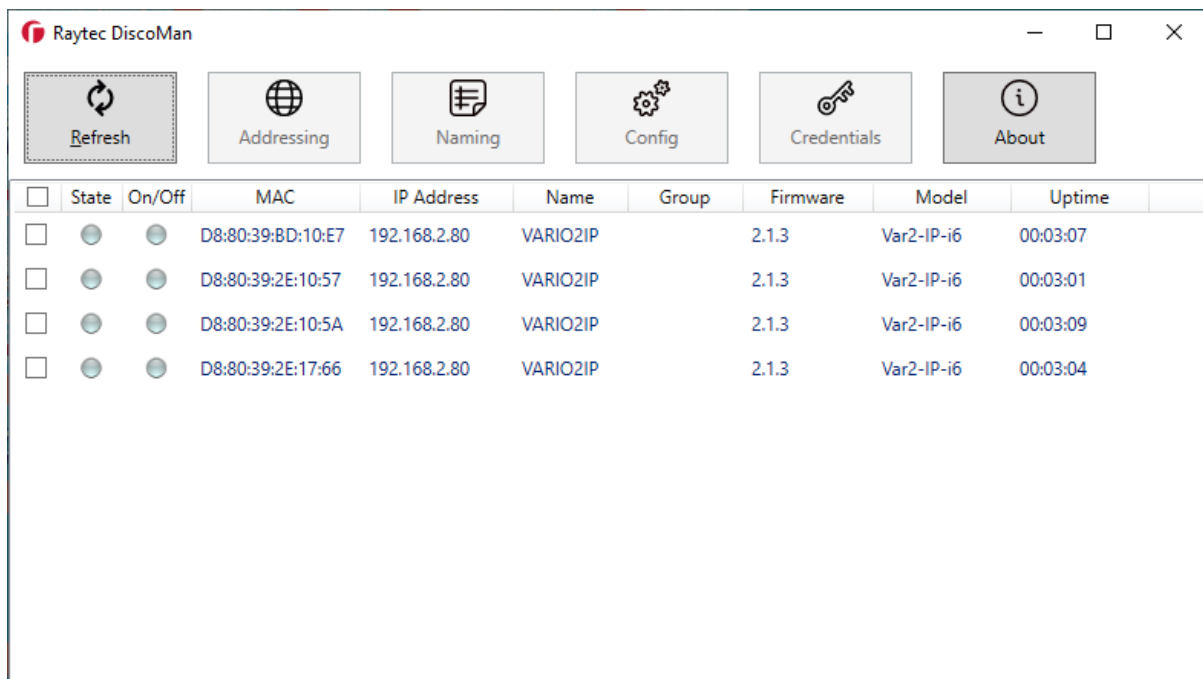
If you have obtained the installer from elsewhere we would advise you discard it and download the installer from the Raytec website, www.rayteccctv.com

Hello, DiscoMan




On starting DiscoMan, you will see that it has a very similar look and feel to the Discovery Application:



Click 'Refresh' and you should see your lamps appear.



The 'State' column can be one of three colours:

-  Unable to get a connection to the lamp. This occurs when other Raytec Software is running or the machine is on a different subnet to the lamp.
-  Successful connection to lamp and no faults.
-  Successful connection to lamp but lamp has an input voltage or LED fault (see 'Diagnostics' webpage of the lamp to find out more information)

The 'On/Off' column shows a green LED when the lamp is on and grey if it is off. DiscoMan must have a connection to the lamp to be able to report this information.

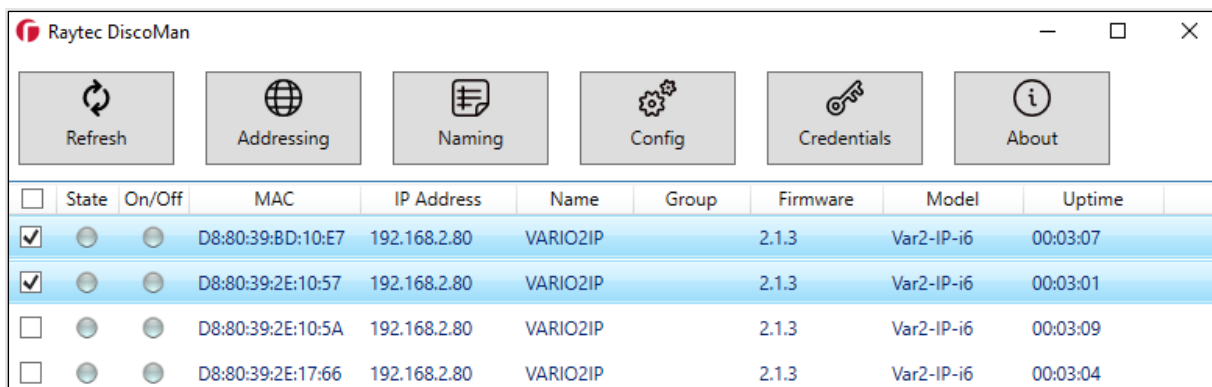
Lamp Selection









In the Discovery Application you could only select one lamp at a time, DiscoMan allows you to select multiple to take advantage of its multiple lamp update features.

You have two options to select lamps: checkboxes or keyboard shortcuts

Checkboxes







You will see a checkbox next to each discovered lamp, this is to allow the user to select one or more lamps at a time.



| <input type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
|-------------------------------------|---|---|-------------------|--------------|----------|-------|----------|------------|----------|
| <input checked="" type="checkbox"/> |  |  | D8:80:39:BD:10:E7 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:03:07 |
| <input checked="" type="checkbox"/> |  |  | D8:80:39:2E:10:57 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:03:01 |
| <input type="checkbox"/> |  |  | D8:80:39:2E:10:5A | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:03:09 |
| <input type="checkbox"/> |  |  | D8:80:39:2E:17:66 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:03:04 |

Users also have the option to select all lamps using the checkbox located in the column header (highlighted below):



| | | | | | | | | | |
|-------------------------------------|---|---|-------------------|--------------|----------|-------|----------|------------|----------|
| <input checked="" type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
| <input checked="" type="checkbox"/> |  |  | D8:80:39:BD:10:E7 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:03:07 |
| <input checked="" type="checkbox"/> |  |  | D8:80:39:2E:10:57 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:03:01 |
| <input checked="" type="checkbox"/> |  |  | D8:80:39:2E:10:5A | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:03:09 |
| <input checked="" type="checkbox"/> |  |  | D8:80:39:2E:17:66 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:03:04 |

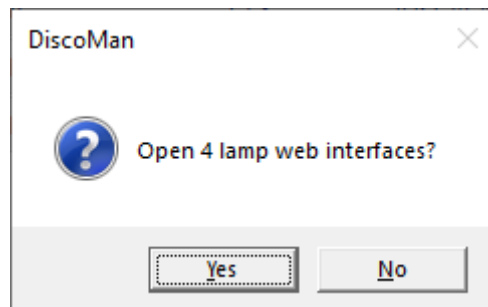
Keyboard shortcuts

If you are familiar with keyboard shortcuts then you can also use these here:

- Shift + Up/Down cursor key selects multiple lamps
- Ctrl + A will select all lamps

Lamp web interface

If you double-click on a lamp you will be taken to the web interface of that lamp. You can also select multiple lamps and hit enter to open multiple web interfaces. You will be presented with a dialog asking if this is what you want to do.



You may have noticed that once you have selected one or more lamps, the buttons at the top of DiscoMan become available.

The Action Bar



When you have selected one or more lamps, the action bar becomes available.

The Addressing, Naming, Config and Credentials buttons are context-sensitive, they will show one dialog when you have one lamp selected and another when you have multiple. These will be covered in the following sections but for now, this is what you can do here:

Addressing – Change the IP address and subnet mask of a lamp or set the lamp to obtain its IP address from a DHCP server

Naming – Rename the lamp and change the group name

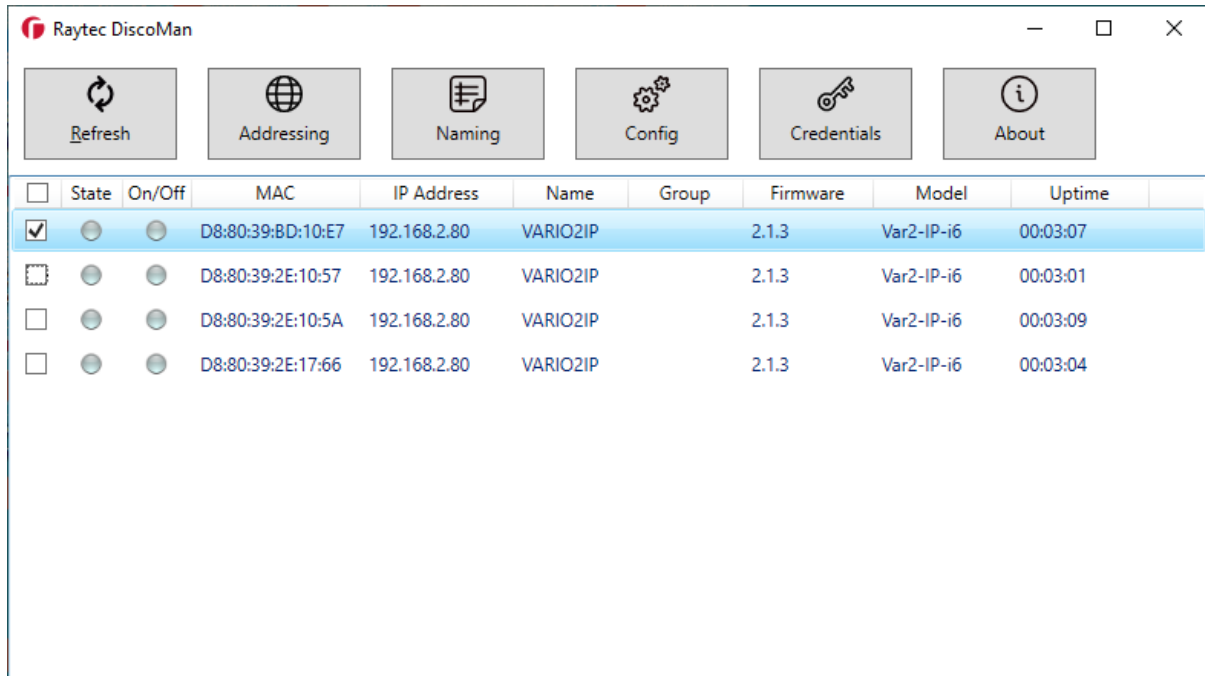
Config – Anything you can change on the settings and advanced settings pages of the lamp's web interface you can also change here. For example, you can change the lamp mode and tweak the photocell and external input triggers.

Credentials – update the admin and operator passwords

Single Lamp Setup

This section will show the dialogs raised from the action bar when you have one lamp selected.

Firstly, select your lamp.



Single Lamp Addressing

Click 'Addressing' and you should see the following dialog:

The screenshot shows the Addressing dialog box. It has a title bar with the Raytec logo and the word 'Addressing'. The dialog is divided into two sections: 'Current Lamp Info' and 'New Address Info'. The 'Current Lamp Info' section displays the Name (VARIO2IP), IP Address (192.168.2.80), and MAC Address (D8:80:39:BD:10:E7). The 'New Address Info' section has a radio button selected for 'Use the following IP Address'. Below this, there are input fields for IP Address (empty) and Subnet Mask (255.255.255.0). There is also an unselected radio button for 'Obtain IP Address automatically (DHCP)'. At the bottom, there are 'OK' and 'Cancel' buttons.

Addressing

Current Lamp Info

Name: VARIO2IP

IP Address: 192.168.2.80

MAC Address: D8:80:39:BD:10:E7

New Address Info

☒ Use the following IP Address

IP Address:

Subnet Mask:

☐ Obtain IP Address automatically (DHCP)

OK Cancel

Action dialogs for single lamps display information about the selected lamp, an area to change settings and buttons to confirm changes or close the dialog.

You can set a static IP address on the selected lamp or obtain one from a DHCP server.

Static Addressing

This is the default option on opening the addressing action dialog, you will see that the IP Address field is highlighted red to denote an error, on hovering over the text box the error is revealed:

The same validation is applied to both the IP Address and Subnet mask fields; they cannot be empty and they must contain a valid IP Address. Enter an IP address and the “OK” button should become available.

Click “OK” and then click “Refresh” on the main DiscoMan screen to see the change.

| <input type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
|--------------------------|-------|--------|-------------------|--------------|----------|-------|----------|------------|----------|
| <input type="checkbox"/> | | | D8:80:39:2E:10:57 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:02 |
| <input type="checkbox"/> | | | D8:80:39:2E:10:5A | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:05:49 |
| <input type="checkbox"/> | | | D8:80:39:2E:17:66 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:05:47 |
| <input type="checkbox"/> | | | D8:80:39:BD:10:E7 | 192.168.2.90 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:27 |

The lamp needs to restart after an IP address change and you’ll see this reflected in the Uptime column.

DHCP (Automatic address setting)

If you opt to have the lamp’s network settings set by a DHCP server, you need to ensure that you have a DHCP server on the network, this warning is shown when selecting this option:

☒ Obtain IP Address automatically (DHCP)

Ensure you have the lamp connected to a network with a DHCP server when using this option

The 'OK' button is enabled immediately when selecting this option as the user doesn't have to provide any further information.

On clicking "OK" and then "Refresh", the lamp's new IP address will be displayed much in the same way as shown for *Static Addressing* earlier.

| <input type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
|--------------------------|-------|--------|-------------------|--------------|----------|-------|----------|------------|----------|
| <input type="checkbox"/> | | | D8:80:39:2E:10:57 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:01:08 |
| <input type="checkbox"/> | | | D8:80:39:2E:17:66 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:01:00 |
| <input type="checkbox"/> | | | D8:80:39:2E:10:5A | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:44 |
| <input type="checkbox"/> | | | D8:80:39:BD:10:E7 | 192.168.1.73 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:01 |

Single Lamp Naming

Click 'Naming' and you should see the following dialog:

Naming

Current Lamp Info

Name: VARIO2IP

IP Address: 192.168.2.90

MAC Address: D8:80:39:BD:10:E7

New Naming Info

Name:

Group:

OK Cancel

Again, the selected lamp's information is displayed at the top of the dialog.

The 'Name' and 'Group' fields are pre-populated with the selected lamp's information.

You will notice that the 'Group' field does not have a red outline to denote an error when it is empty, this is because there is no requirement to have a group name on a lamp. The lamp must have a name however and if you clear the 'Name' field, you will get a red outline on the field, the 'OK' button will be disabled and you'll get the following error message on hovering over the field.

New Naming Info

Name:

Group:

Name must have a value

Enter a name for the lamp and the “OK” button will become enabled.

New Naming Info
Name:
Group:

Click “OK” and then “Refresh” on the main DiscoMan screen to see the change.

| <input type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
|--------------------------|-------|--------|-------------------|--------------|----------|-------|----------|------------|----------|
| <input type="checkbox"/> | | | D8:80:39:2E:10:5A | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:13:55 |
| <input type="checkbox"/> | | | D8:80:39:2E:10:57 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:02 |
| <input type="checkbox"/> | | | D8:80:39:2E:17:66 | 192.168.2.80 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:13:53 |
| <input type="checkbox"/> | | | D8:80:39:8D:10:E7 | 192.168.2.90 | MyLamp | | 2.1.3 | Var2-IP-i6 | 00:08:32 |

WARNING : If the selected lamp doesn't have a green LED in the 'State' column on the main DiscoMan screen, the name change will fail as this indicates that DiscoMan doesn't have a connection to the lamp.

If you run into this error, please ensure no other Raytec Software is open on the network and that your machine and the lamp are configured to be on the same subnet.

Single Lamp Config

Click 'Config' and you should see the following dialog:

Config

Current Lamp Info

Name: MyLamp
IP Address: 192.168.2.90
MAC Address: D8:80:39:BD:10:E7

New Config Info ⚠

Lamp Mode: Local

Photocell External Input Deterrent Adv Settings

Trigger Control: Lamp Control

Lamp Mode on Trigger: On

Power (%): 100

Duration: ☒ Duration of Trigger ☐ Minutes 60

Soft Start: ☒

OK Cancel

If you have selected a hybrid illuminator then you will see a 'Light Type' field on both Photocell and External Input tabs.

Config

Current Lamp Info

Name: VARIO2IP
IP Address: 192.168.1.115
MAC Address: 04:91:62:34:28:1A

New Config Info ⚠

Lamp Mode: Local

Photocell External Input Deterrent Adv Settings

Trigger Control: Lamp Control

Light Type: IR

Lamp Mode on Trigger: On

Power (%): 100

Duration: ☒ Duration of Trigger ☐ Minutes 60

Soft Start: ☒

OK Cancel

Whereas the Naming and Addressing dialogs were available in the Discovery Application, albeit with a slightly different style, the Config dialog is new.

This dialog allows you to configure any settings you see on the *'Settings/Groups'* and *'Adv Settings'* web pages and the layout has been retained for familiarity although tabs have been used so that users aren't overloaded with information.

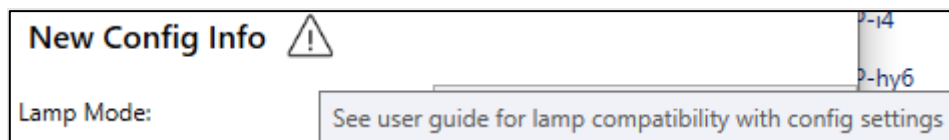
The Config dialog's *'OK'* button is available as soon as you open the dialog, you could click *'OK'* at this point to send the default lamp configuration to the lamp.

INFORMATION: The settings shown on the dialog are the default settings for a lamp, these are not the current settings of the selected lamp.

If you choose a non-local mode from the *'Lamp Mode'* combo box, i.e. VMS or HTTP modes, then the *'Photocell'*, *'External Input'* and *'Deterrent'* tabs will disappear. This occurs because the settings on these tabs relate to the photocell and external input triggers and these are irrelevant when lamp control has been delegated to a VMS or the lamp is configured to be controlled solely by HTTP commands.

See appendix A for an exploded view of the tabs, fields and values available.

You may have noticed a warning triangle on the config dialog, on hovering your cursor over this you will see the following message:



See Appendix B in this document for lamp compatibility with the config settings in DiscoMan.

Single Lamp Credentials

Click *'Credentials'* and you should see the following dialog:

A dialog box titled "Credentials" with a close button (X) in the top right corner. It is divided into two sections: "Current Lamp Info" and "New Credentials Info".
Current Lamp Info
Name: VARIO2IP
IP Address: 192.168.2.80
MAC Address: D8:80:39:BD:10:E7
New Credentials Info
Admin Username: admin
Admin Password: (empty field)
Operator Username: user
Operator Password: (empty field)
At the bottom are "OK" and "Cancel" buttons.

The *'Credentials'* dialog is new and allows you to set the username and password for admin and operator accounts.

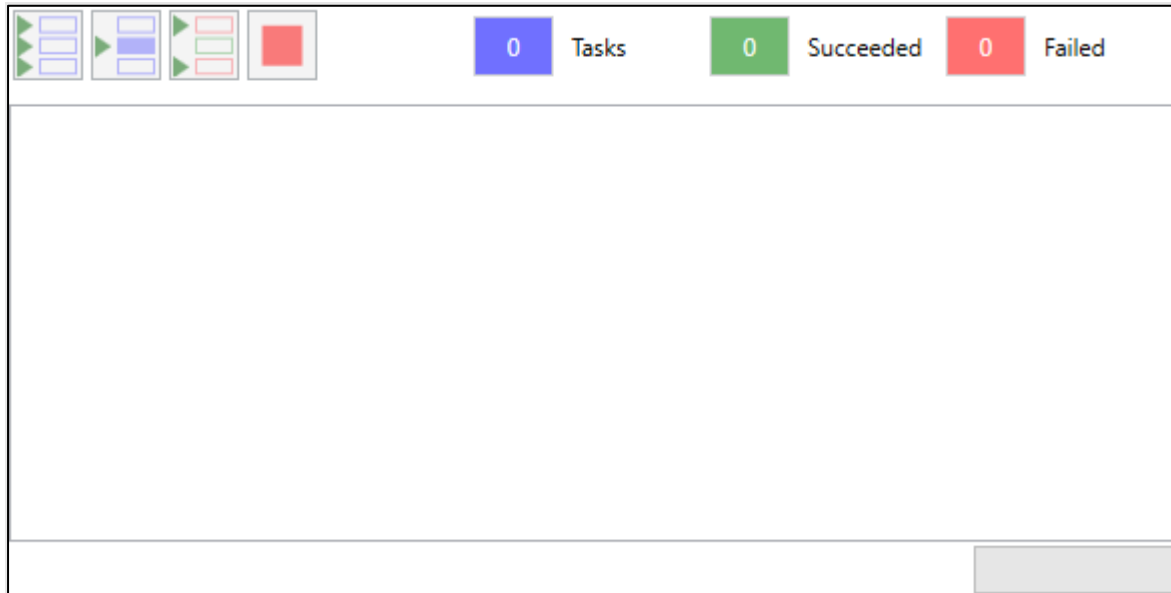
On loading the dialog, both password fields have a red outline because they are empty. They also show this red outline if you enter 'password' as the password as this is the default password and must be changed.

The usernames can be changed from admin and user to something else but they must be set otherwise you will see a red outline and the 'OK' button will be disabled.





Multiple Lamp Setup

Before getting into the multiple lamp updating dialogs, it is worth explaining the task-based system it uses first as this is used on each dialog.

The task system looks like this:



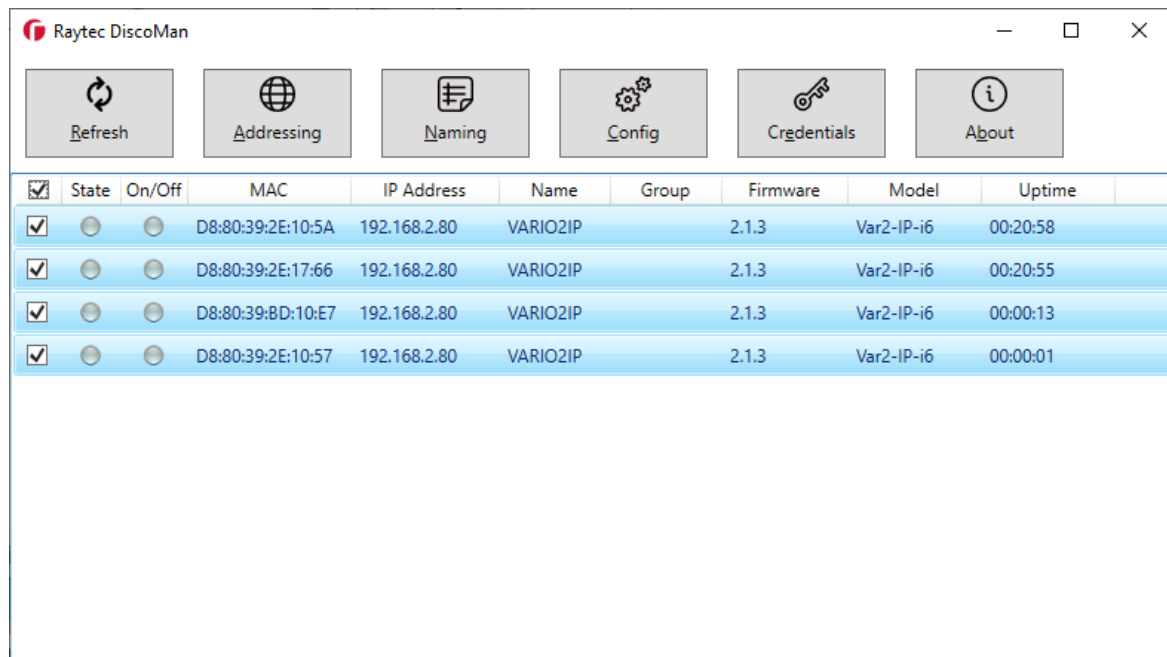
The buttons at the top left are task actions, they are detailed below.

| | |
|---|---|
|  | Play All Tasks <i>Plays all outstanding tasks</i> |
|  | Play Selected Task <i>Plays the selected task</i> |
|  | Replay Failed Tasks <i>Re-runs failed tasks. Failed tasks are unusual but a quick 'Replay Failed Tasks' should see the task completed successfully on the first replay attempt.</i> |
|  | Stop <i>Stops the running of tasks after the current one completes</i> |

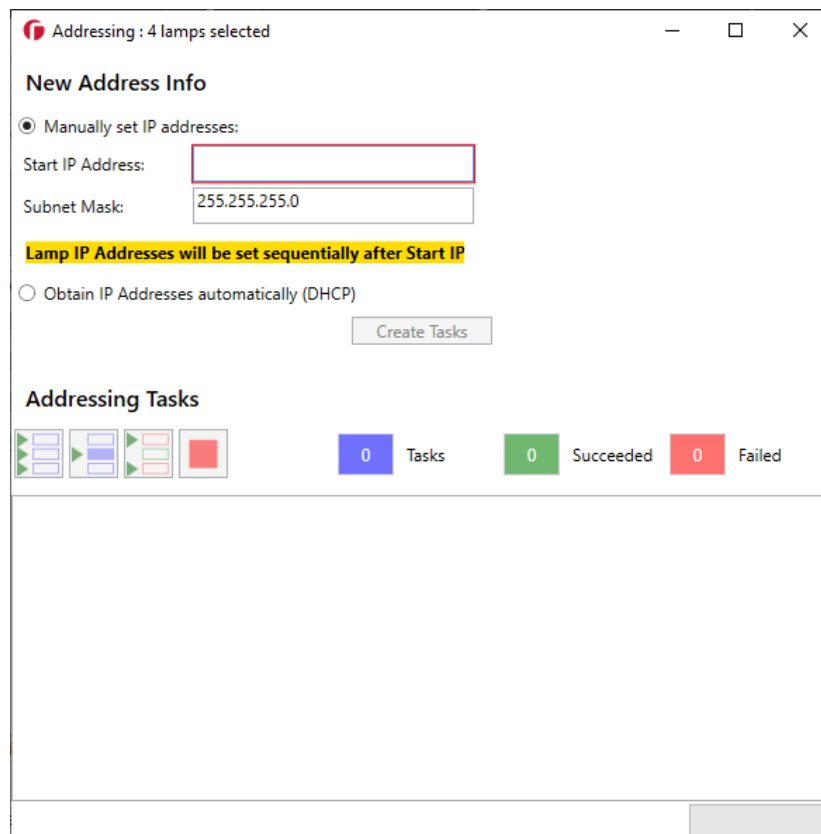
After clicking 'Create Tasks' on each of the dialogs, the task list will be populated with tasks.

Multiple Lamp Addressing

Select multiple lamps.



Click 'Addressing' and the dialog for multiple lamp addressing pops up and shows how many lamps you will address in its title bar.



The validation on the IP address fields is the same as Single Lamp Addressing in that they can't be empty and they must be valid IP addresses.

You can set the IP Address of multiple lamps manually or via DHCP.

Multiple Lamp Addressing – Manually set IP Addresses

When the field states manual here it just means that they won't be set automatically by a DHCP server.

The note underneath this radio button states that IP Addresses will be set sequentially after the Start IP Address, type in your Start IP address and change the subnet mask if you need to.

New Address Info
☒ Manually set IP addresses:
Start IP Address:
Subnet Mask:
Lamp IP Addresses will be set sequentially after Start IP
☐ Obtain IP Addresses automatically (DHCP)

Click "Create Tasks" and tasks will be created to change the address of the selected lamps.


Addressing Tasks

4 Tasks 0 Succeeded 0 Failed


| |
|---|
| Lamp - D8:80:39:2E:10:5A - 192.168.2.80 - VARIO2IP - Var2-IP-i6 |
| New Address - New Addressing Info - IP Address 192.168.2.90 and Subnet Mask 255.255.255.0 |
| Lamp - D8:80:39:2E:17:66 - 192.168.2.80 - VARIO2IP - Var2-IP-i6 |
| New Address - New Addressing Info - IP Address 192.168.2.91 and Subnet Mask 255.255.255.0 |
| Lamp - D8:80:39:BD:10:E7 - 192.168.2.80 - VARIO2IP - Var2-IP-i6 |
| New Address - New Addressing Info - IP Address 192.168.2.92 and Subnet Mask 255.255.255.0 |
| Lamp - D8:80:39:2E:10:57 - 192.168.2.80 - VARIO2IP - Var2-IP-i6 |
| New Address - New Addressing Info - IP Address 192.168.2.93 and Subnet Mask 255.255.255.0 |

Each task details what it is going to do and which lamp that setting will be applied to.

When a task is created it will have a blue outline to denote that it is to be run. A green outline indicates a task completed successfully and red shows that the task failed.

If you are happy with the settings you see in the task list, hit 'Play All Tasks' 

Addressing Tasks



4

 Tasks


4

 Succeeded

0









 Failed

| |
|--|
| Lamp - D8:80:39:2E:10:5A - 192.168.2.80 - VARIO2IP - Var2-IP-i6 New Address - New Addressing Info - IP Address 192.168.2.90 and Subnet Mask 255.255.255.0 |
| Lamp - D8:80:39:2E:17:66 - 192.168.2.80 - VARIO2IP - Var2-IP-i6 New Address - New Addressing Info - IP Address 192.168.2.91 and Subnet Mask 255.255.255.0 |
| Lamp - D8:80:39:BD:10:E7 - 192.168.2.80 - VARIO2IP - Var2-IP-i6 New Address - New Addressing Info - IP Address 192.168.2.92 and Subnet Mask 255.255.255.0 |
| Lamp - D8:80:39:2E:10:57 - 192.168.2.80 - VARIO2IP - Var2-IP-i6 New Address - New Addressing Info - IP Address 192.168.2.93 and Subnet Mask 255.255.255.0 |

All tasks complete 

The mass addressing should complete without any problems as the process doesn't require a connection to the lamp to set the IP address and subnet.

Close the dialog and click 'Refresh' on the DiscoMan main screen, the lamps should have been given the specified IP addresses.

| Raytec DiscoMan | | | | | | | | | |
|---|---|---|-------------------|--------------|----------|-------|----------|------------|----------|
| <div> <div>Refresh</div> <div>Addressing</div> <div>Naming</div> <div>Config</div> <div>Credentials</div> <div>About</div> </div> | | | | | | | | | |
| <input type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
| <input type="checkbox"/> |  |  | D8:80:39:2E:10:5A | 192.168.2.90 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:19 |
| <input type="checkbox"/> |  |  | D8:80:39:2E:17:66 | 192.168.2.91 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:18 |
| <input type="checkbox"/> |  |  | D8:80:39:BD:10:E7 | 192.168.2.92 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:14 |
| <input type="checkbox"/> |  |  | D8:80:39:2E:10:57 | 192.168.2.93 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:11 |

Multiple Lamp Addressing – DHCP

To have the selected lamps network settings be set by a DHCP server, select this option and the 'Create Tasks' button will become enabled immediately.

New Address Info

☐ Manually set IP addresses:

Start IP Address:

Subnet Mask:

☒ Obtain IP Addresses automatically (DHCP)

Ensure you have lamps connected to a network with a DHCP server when using this option

[Create Tasks](#)

On clicking 'Create Tasks' you will see something like the following.

Addressing Tasks

4 Tasks
0 Succeeded
0 Failed

| |
|---|
| Lamp - D8:80:39:2E:10:57 - 192.168.2.80 - VARIO2IP - Var2-IP-i6 |
| New Address - New Addressing Info - DHCP Enabled |
| Lamp - D8:80:39:BD:10:E7 - 192.168.2.80 - VARIO2IP - Var2-IP-i6 |
| New Address - New Addressing Info - DHCP Enabled |
| Lamp - D8:80:39:2E:17:66 - 192.168.2.80 - VARIO2IP - Var2-IP-i6 |
| New Address - New Addressing Info - DHCP Enabled |
| Lamp - D8:80:39:2E:10:5A - 192.168.2.80 - VARIO2IP - Var2-IP-i6 |
| New Address - New Addressing Info - DHCP Enabled |

Since the program has no means of knowing what IP addresses will be assigned to the lamp it just states 'DHCP Enabled'.

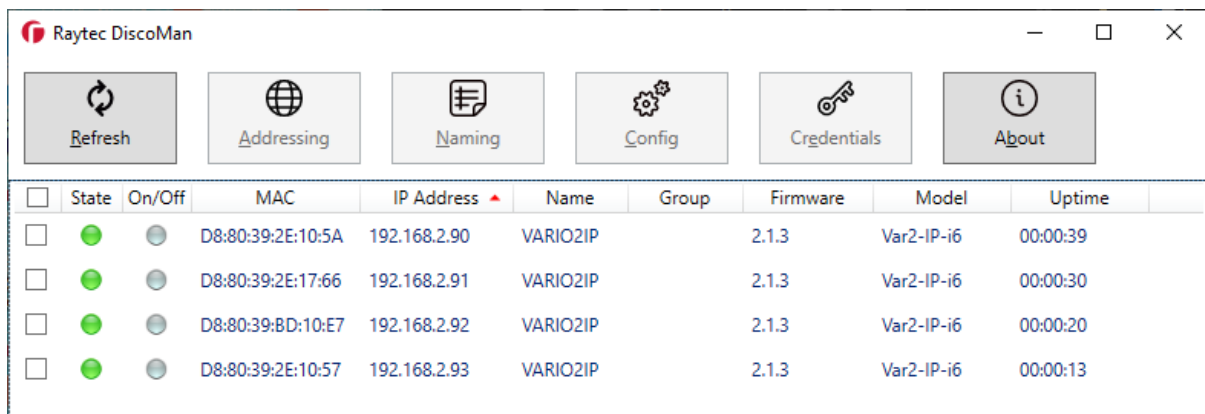
Click 'Play All Tasks' and each lamp will have its IP address assigned by the DHCP server. Close the dialog and click 'Refresh' on the DiscoMan main screen, the lamps should have been given IP addresses by the DHCP server.

| Raytec DiscoMan | | | | | | | | | |
|--|-------|--------|-------------------|---------------|----------|-------|----------|------------|----------|
| Refresh Addressing Naming Config Credentials About | | | | | | | | | |
| <input type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
| <input type="checkbox"/> | ● | ● | D8:80:39:2E:17:66 | 192.168.1.105 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:02 |
| <input type="checkbox"/> | ● | ● | D8:80:39:2E:10:57 | 192.168.1.112 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:01:51 |
| <input type="checkbox"/> | ● | ● | D8:80:39:2E:10:5A | 192.168.1.74 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:02:05 |
| <input type="checkbox"/> | ● | ● | D8:80:39:BD:10:E7 | 192.168.1.73 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:05:05 |

WARNING : Ensure that you have a DHCP server on the network before selecting this option as you can lose the connection to the lamps if you do this without a DHCP server with the only means of recourse being a hard reset of the lamp.

Multiple Lamp Naming

Ensure that the lamps you select to rename have a green status LED next to them in DiscoMan in the 'State' column.

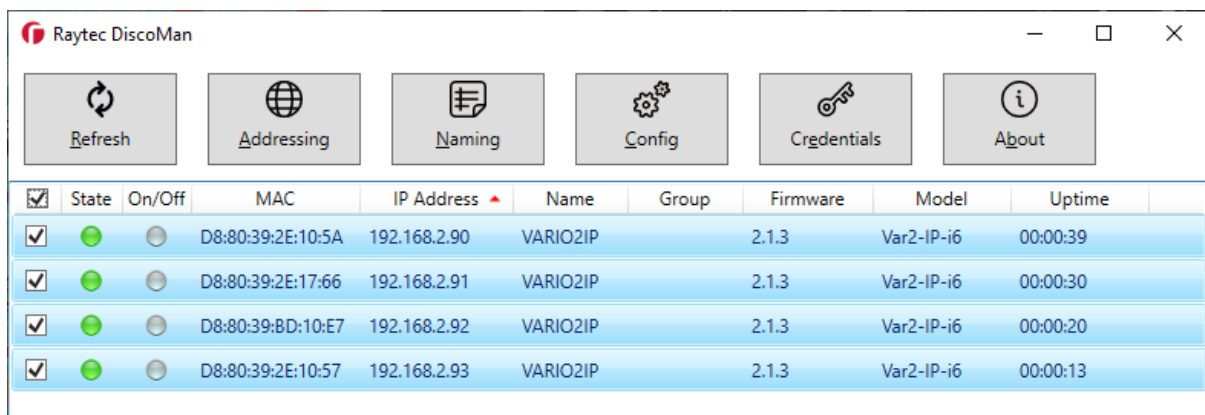


The screenshot shows the Raytec DiscoMan application window. At the top, there are six buttons: Refresh, Addressing, Naming, Config, Credentials, and About. Below these is a table with the following columns: State, On/Off, MAC, IP Address, Name, Group, Firmware, Model, and Uptime. There are four rows of data, each with a checkbox in the State column and a green LED indicator in the On/Off column.

| <input type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
|--------------------------|-------|--------|-------------------|--------------|----------|-------|----------|------------|----------|
| <input type="checkbox"/> | ● | ● | D8:80:39:2E:10:5A | 192.168.2.90 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:39 |
| <input type="checkbox"/> | ● | ● | D8:80:39:2E:17:66 | 192.168.2.91 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:30 |
| <input type="checkbox"/> | ● | ● | D8:80:39:BD:10:E7 | 192.168.2.92 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:20 |
| <input type="checkbox"/> | ● | ● | D8:80:39:2E:10:57 | 192.168.2.93 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:13 |

This indicates that DiscoMan has a connection to the lamp which it requires to rename it. If you see a grey status LED here, ensure other Raytec Software is not running and make sure your machine is configured to be on the same subnet as the lamp(s).

Next, select multiple lamps.



The screenshot shows the Raytec DiscoMan application window with the same table as before. In this view, the first four rows are highlighted in blue, and each has a checked checkbox in the State column.

| <input checked="" type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
|-------------------------------------|-------|--------|-------------------|--------------|----------|-------|----------|------------|----------|
| <input checked="" type="checkbox"/> | ● | ● | D8:80:39:2E:10:5A | 192.168.2.90 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:39 |
| <input checked="" type="checkbox"/> | ● | ● | D8:80:39:2E:17:66 | 192.168.2.91 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:30 |
| <input checked="" type="checkbox"/> | ● | ● | D8:80:39:BD:10:E7 | 192.168.2.92 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:20 |
| <input checked="" type="checkbox"/> | ● | ● | D8:80:39:2E:10:57 | 192.168.2.93 | VARIO2IP | | 2.1.3 | Var2-IP-i6 | 00:00:13 |

Click 'Naming' and the dialog for multiple lamp naming pops up and shows how many lamps you will be renaming in its title bar.

Naming : 4 lamps selected

New Naming Info

☐ Set Lamp Names

Base Name:

Start Number:

☐ All lamp names same length

First Lamp:

Last Lamp:

☐ Set Group Names

Group Name:

Naming Tasks

☐ ☐ ☐ ☐
0 Tasks
0 Succeeded
0 Failed

The multiple lamp naming dialog allows you to set multiple lamp names and/or groups on lamps.

If you'd like to set lamp names then check 'Set Lamp Names' and enter a base name:

☒ Set Lamp Names

Base Name:

Start Number:

☐ All lamp names same length

First Lamp:

Last Lamp:

As you type in the base name, you'll see the 'First Lamp' and 'Last Lamp' update automatically with a preview of the names of the first and last lamps.

If you had many lamps that go into more than one digit you can tick 'All lamp names same length' to force all lamp names to be the same length. This is done by zero-padding the earlier names. For example, we have 4 lamps in our example setup, if we start the numbering from 7 then we see the following first and last lamp:

First Lamp:

Last Lamp:

Checking 'All lamp names same length' will change this to appear as follows:

☒ Set Lamp Names

Base Name:

Start Number:

☒ All lamp names same length

First Lamp: Raytec07

Last Lamp: Raytec10

One thing to note, the base name doesn't even need to be set here if you simply want to name your lamps with a number, however we'd advise you give them a small description to aid in differentiating between lamps of different wavelengths.

If you'd like to update group names on the lamps check the 'Set Group Names' check box.

☒ Set Group Names

Group Name:

From here you have two options:

1. Enter a new group name – note, this can be empty. This can be used to clear the existing group names on lamps.
2. Choose an existing group name – the editable combo box contains all group names of discovered lamps so you can quickly add a new lamp to a group without worrying about any typos.

Enter a new group name.

☒ Set Group Names

Group Name:


Click 'Create Tasks' and you will see lamp and group rename tasks.

Naming Tasks





☐ ☐ ☐ ☐
8 Tasks
0 Succeeded
0 Failed

| |
|---|
| Lamp - D8:80:39:2E:10:5A - 192.168.2.90 - VARIO2IP - Var2-IP-i6 |
| Lamp Rename - Raytec07 |
| Lamp - D8:80:39:2E:10:5A - 192.168.2.90 - VARIO2IP - Var2-IP-i6 |
| Group Rename - TechnicalDept |
| Lamp - D8:80:39:2E:17:66 - 192.168.2.91 - VARIO2IP - Var2-IP-i6 |
| Lamp Rename - Raytec08 |
| Lamp - D8:80:39:2E:17:66 - 192.168.2.91 - VARIO2IP - Var2-IP-i6 |
| Group Rename - TechnicalDept |
| Lamp - D8:80:39:BD:10:E7 - 192.168.2.92 - VARIO2IP - Var2-IP-i6 |
| Lamp Rename - Raytec09 |

Tasks are created for both lamp renames and changes to lamp group names. If you opt to change both you will see X number of tasks where X is the number of selected lamps multiplied by 2 (a naming task and a group rename task for each lamp)

If you are happy with the settings you see in the task list, hit 'Play All Tasks' 

Naming Tasks

8

 Tasks


8

 Succeeded















0

 Failed

| |
|---|
| Lamp - D8:80:39:2E:10:5A - 192.168.2.90 - VARIO2IP - Var2-IP-i6 Lamp Rename - Raytec07 |
| Lamp - D8:80:39:2E:10:5A - 192.168.2.90 - VARIO2IP - Var2-IP-i6 Group Rename - TechnicalDept |
| Lamp - D8:80:39:2E:17:66 - 192.168.2.91 - VARIO2IP - Var2-IP-i6 Lamp Rename - Raytec08 |
| Lamp - D8:80:39:2E:17:66 - 192.168.2.91 - VARIO2IP - Var2-IP-i6 Group Rename - TechnicalDept |
| Lamp - D8:80:39:BD:10:E7 - 192.168.2.92 - VARIO2IP - Var2-IP-i6 Lamp Rename - Raytec09 |


All tasks complete 

Close the dialog and click 'Refresh', you should see that all the lamps have had their name and group changed.

| Raytec DiscoMan | | | | | | | | | | |
|---|---|--|-------------------|--|----------|--|----------|---|----------|---|
|  Refresh | |  Addressing | |  Naming | |  Config | |  Credentials | |  About |
| <input type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime | |
| <input type="checkbox"/> |  |  | D8:80:39:2E:10:5A | 192.168.2.90 | Raytec07 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:11:33 | |
| <input type="checkbox"/> |  |  | D8:80:39:2E:17:66 | 192.168.2.91 | Raytec08 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:11:23 | |
| <input type="checkbox"/> |  |  | D8:80:39:BD:10:E7 | 192.168.2.92 | Raytec09 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:11:12 | |
| <input type="checkbox"/> |  |  | D8:80:39:2E:10:57 | 192.168.2.93 | Raytec10 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:11:06 | |

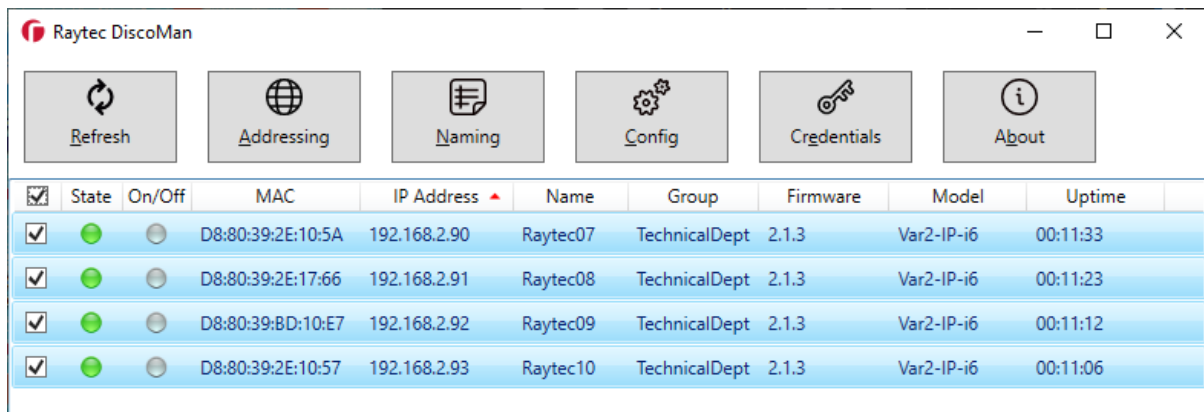
The program will start the sequential naming from the lowest IP address it can find so the configuration is kept neat and logical, in the example above 192.168.2.90 has the first name and 192.168.2.93 has the last one.

WARNING : If any selected lamp has a grey LED in the 'State' column on the main screen prior to trying to update multiple lamps then tasks will fail for this lamp.

In this instance, ensure no other Raytec Software is running on your network and then click on Replay Failed Tasks 

Multiple Lamp Config

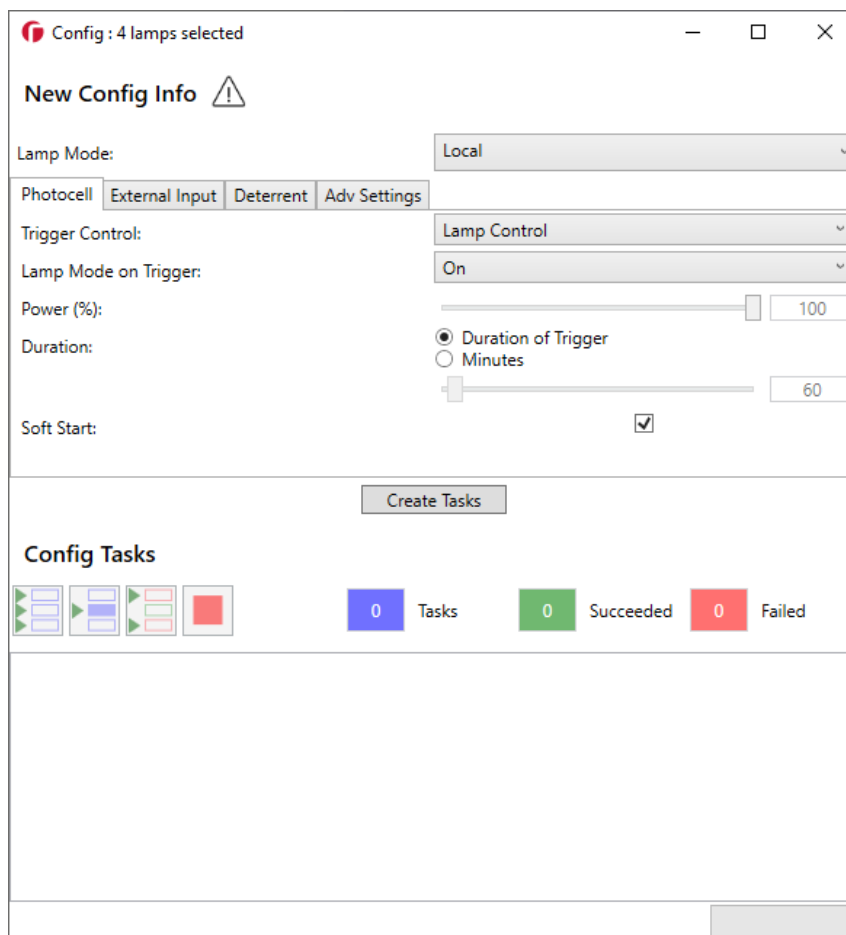
Select multiple lamps.



The screenshot shows the Raytec DiscoMan application window. At the top, there is a toolbar with icons for Refresh, Addressing, Naming, Config, Credentials, and About. Below the toolbar is a table with columns: State, On/Off, MAC, IP Address, Name, Group, Firmware, Model, and Uptime. Four rows are selected, each with a checked checkbox in the State column.

| <input checked="" type="checkbox"/> | State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
|-------------------------------------|-------|--------|-------------------|--------------|----------|---------------|----------|------------|----------|
| <input checked="" type="checkbox"/> | ● | ● | D8:80:39:2E:10:5A | 192.168.2.90 | Raytec07 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:11:33 |
| <input checked="" type="checkbox"/> | ● | ● | D8:80:39:2E:17:66 | 192.168.2.91 | Raytec08 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:11:23 |
| <input checked="" type="checkbox"/> | ● | ● | D8:80:39:BD:10:E7 | 192.168.2.92 | Raytec09 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:11:12 |
| <input checked="" type="checkbox"/> | ● | ● | D8:80:39:2E:10:57 | 192.168.2.93 | Raytec10 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:11:06 |

Click 'Config' and the dialog for multiple lamp config pops up and shows how many lamps you will be configuring in its title bar.



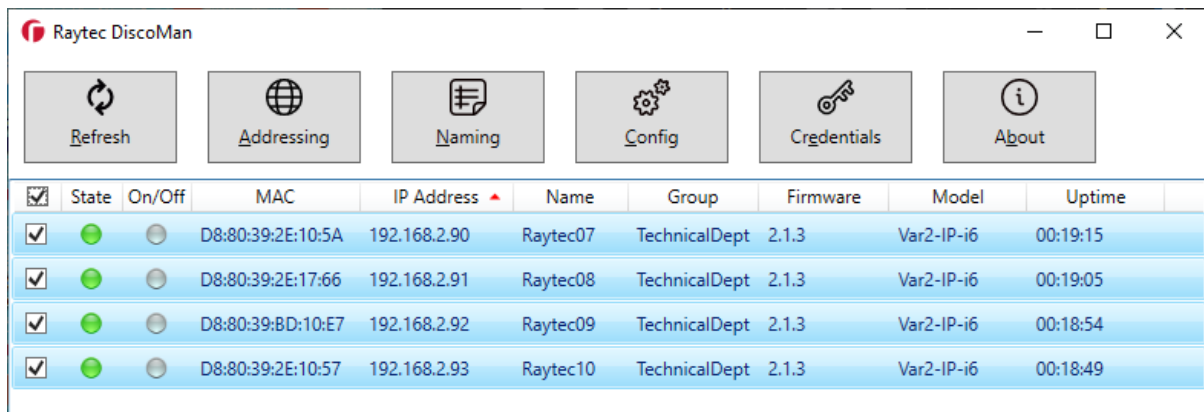
The screenshot shows the 'Config : 4 lamps selected' dialog box. It has a title bar with a warning icon and the text 'New Config Info'. The dialog is divided into two main sections. The top section contains configuration options: 'Lamp Mode' (set to Local), 'Photocell' (selected), 'External Input', 'Deterrent', and 'Adv Settings'. Below these are 'Trigger Control' (set to Lamp Control), 'Lamp Mode on Trigger' (set to On), 'Power (%)' (set to 100), 'Duration' (set to 60 minutes), and 'Soft Start' (checked). The bottom section is titled 'Config Tasks' and shows a progress bar with four steps. Below the progress bar, there are three buttons: '0 Tasks', '0 Succeeded', and '0 Failed'. A 'Create Tasks' button is located above the progress bar.

The 'New Config Info' on this dialog is the same as what you have seen on the Single Lamp Config screen.

Change the configuration to how you desire your lamps to function and click 'Create Tasks'

Multiple Lamp Credentials

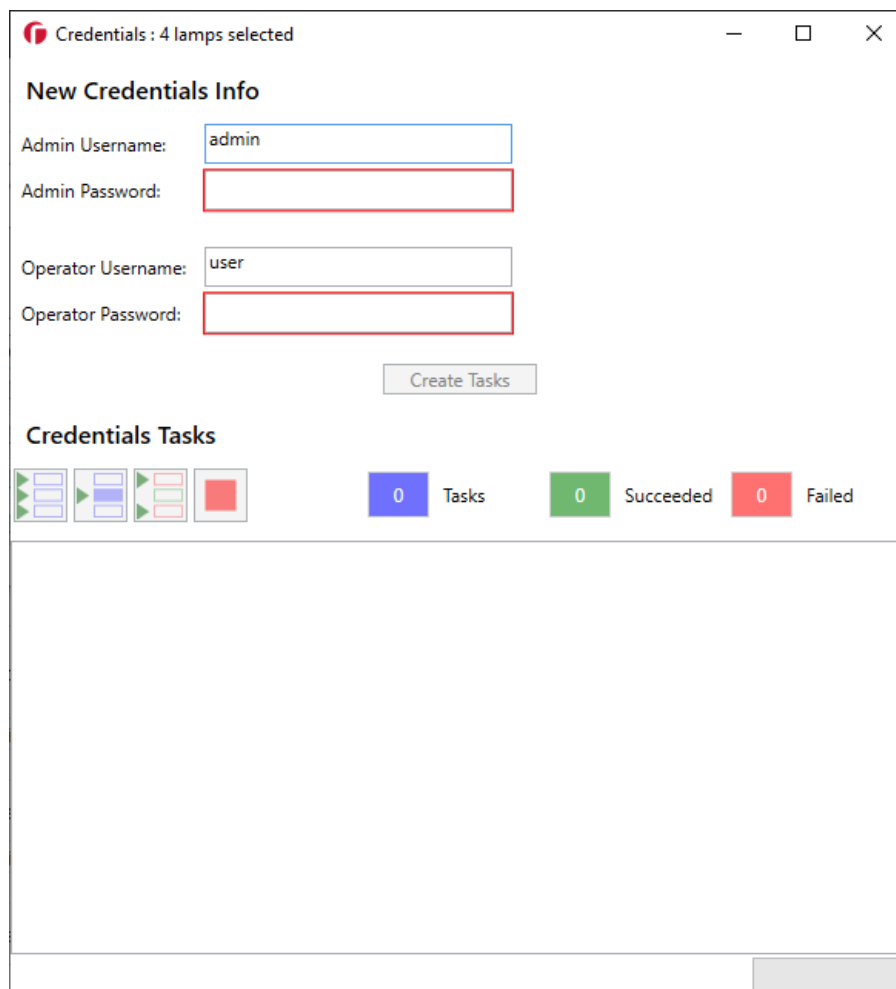
Select multiple lamps.



The Raytec DiscoMan interface shows a table with four selected lamps. The table has columns for State, On/Off, MAC, IP Address, Name, Group, Firmware, Model, and Uptime. All four lamps are checked in the State column.

| State | On/Off | MAC | IP Address | Name | Group | Firmware | Model | Uptime |
|-------------------------------------|-----------------------|-------------------|--------------|----------|---------------|----------|------------|----------|
| <input checked="" type="checkbox"/> | <input type="radio"/> | D8:80:39:2E:10:5A | 192.168.2.90 | Raytec07 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:19:15 |
| <input checked="" type="checkbox"/> | <input type="radio"/> | D8:80:39:2E:17:66 | 192.168.2.91 | Raytec08 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:19:05 |
| <input checked="" type="checkbox"/> | <input type="radio"/> | D8:80:39:BD:10:E7 | 192.168.2.92 | Raytec09 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:18:54 |
| <input checked="" type="checkbox"/> | <input type="radio"/> | D8:80:39:2E:10:57 | 192.168.2.93 | Raytec10 | TechnicalDept | 2.1.3 | Var2-IP-i6 | 00:18:49 |

Click 'Credentials' and the dialog for multiple lamp credentials pops up and shows how many lamps you will be changing the credentials on in its title bar.



The 'Credentials : 4 lamps selected' dialog box contains a 'New Credentials Info' section with fields for Admin Username (admin), Admin Password, Operator Username (user), and Operator Password. A 'Create Tasks' button is below. The 'Credentials Tasks' section shows a progress bar and a summary: 0 Tasks, 0 Succeeded, 0 Failed.

New Credentials Info

Admin Username:

Admin Password:

Operator Username:

Operator Password:

Credentials Tasks





☐ ☐ ☐ ☐ ☐

0 Tasks 0 Succeeded 0 Failed

The 'New Credentials Info' is the same as the Single Lamp Credentials info with the same validation in place; fields mustn't be empty and the password cannot be 'password'.

Enter the credentials that you would like to set on your lamps and click 'Create Tasks'

Credentials Tasks

4

 Tasks

0

 Succeeded

0





 Failed

| |
|---|
| Lamp - D8:80:39:2E:10:5A - 192.168.2.90 - Raytec07 - Var2-IP-i6 Credentials Change - New Credentials |
| Lamp - D8:80:39:2E:17:66 - 192.168.2.91 - Raytec08 - Var2-IP-i6 Credentials Change - New Credentials |
| Lamp - D8:80:39:BD:10:E7 - 192.168.2.92 - Raytec09 - Var2-IP-i6 Credentials Change - New Credentials |
| Lamp - D8:80:39:2E:10:57 - 192.168.2.93 - Raytec10 - Var2-IP-i6 Credentials Change - New Credentials |

In a similar vein to the Multiple Lamp Config dialog the tasks do not explicitly specify what is being set.

Click on 'Play All Tasks'  to run the credentials tasks.

Credentials Tasks

4

 Tasks


4

 Succeeded

0

 Failed

| |
|---|
| Lamp - D8:80:39:2E:10:5A - 192.168.2.90 - Raytec07 - Var2-IP-i6 Credentials Change - New Credentials |
| Lamp - D8:80:39:2E:17:66 - 192.168.2.91 - Raytec08 - Var2-IP-i6 Credentials Change - New Credentials |
| Lamp - D8:80:39:BD:10:E7 - 192.168.2.92 - Raytec09 - Var2-IP-i6 Credentials Change - New Credentials |
| Lamp - D8:80:39:2E:10:57 - 192.168.2.93 - Raytec10 - Var2-IP-i6 Credentials Change - New Credentials |

All tasks complete 

WARNING : Once you have updated the credentials on a lamp you can no longer update its config via DiscoMan.

If you do want to change the configuration of the lamp away from the defaults then ensure you fire up the Config dialog prior to changing credentials.

Troubleshooting

- I can't find my lamps.

Lamps may not appear in the lamp list for a few reasons, check the following:

- *Do you have multiple network interface cards? If you aren't using extra ones, disable them as DiscoMan may not always pick up the correct one.*
- *Are you blocking UDP traffic on port 52055? This should have been opened by DiscoMan (locate the Raytec Discovery Protocol rule in Windows Firewall) but do ensure it isn't blocked.*

- Why are my tasks failing?

There are different reasons for tasks failing based on what tasks you are running:

- *Naming/Grouping – Ensure the lamps that you are attempting to rename have a green status for the "State" column in the lamp list. This task requires DiscoMan to have a TCP connection to the lamp. If you have a grey status here, close any other Raytec Software and restart DiscoMan.*
- *Config – If you change the credentials to something other than the default, config tasks will no longer run because the program relies on default credentials in order to update the config of the lamp. Always update the config before you change credentials.*

- I can't configure all my lamps at once.

- *Check that the lamps you have selected are all single-wavelength illuminators or all hybrid illuminators. You cannot mix these when configuring as hybrid lamps require you to supply a Light Type (IR or WL) for photocell and external input triggers.*

Appendix

A - Config exploded view

| Tab | Field | Values |
|----------------|-----------------------------|--|
| Photocell | Trigger Control | Inactive Lamp Control Group Control – Send and Receive Group Control – Receive only |
| | Light Type | IR WL |
| | Lamp Mode On Trigger | Off On |
| | Power (%) | 20% to 100% |
| | Duration | Duration of trigger or 30-720 minutes (steps of 30 minutes) |
| | Soft start | On/Off |
| External Input | Trigger Control | Inactive Lamp Control Group Control – Send and Receive Group Control – Receive only |
| | Light Type | IR WL |
| | Lamp Mode On Trigger | Off On Deter |
| | Power (%) | 20% to 100% |
| | Duration | Duration of trigger or 1-60 minutes (steps of 1 minute) |
| | Soft start | On/Off |
| Deterrent | Deter Pattern | Wave Hi-Lo SOS |
| | Deter Frequency | Slow Medium Fast |
| Adv Settings | Manual Override Countdown | 10 15 20 30 60 120 240 480 |
| | External Input | Volt free TTL |
| | External Input Active State | Short Circuit / Low Open Circuit / High |

| | | |
|--|------------------------------|---|
| | External Output | Disable Photocell Only Photocell AND Ext I/P Ext I/P Photocell OR Ext I/P Photocell AND NOT Ext I/P Fault |
| | External Output Active State | Short Circuit / Low Open Circuit / High |
| | Photocell Sensitivity | 5 to 65 lux |

B - Config Lamp Compatibility

As new products have been released and new features have been added, this means that DiscoMan is only fully compatible with our latest lamps. DiscoMan can still be utilised for older lamps, see below for compatibility.

It should be noted that all lamps can also be configured normally using their individual web interfaces.

Full Compatibility

Vario2.5 IPPoE and Vario2.5 Hybrid IPPoE.

Almost Full Compatibility

| | |
|--|--|
| Vario2 IPPoE <i>All versions</i> | The external output options in Advanced Settings had “Photocell AND NOT Ext. I/P” and “Fault” added in Vario2.5 IPPoE and Vario2.5 Hybrid IPPoE. Attempting to set these options for the external output on lamps listed on the left-hand side will set the external output to “Disable” for the units. |
| Vario2 Hybrid IPPoE <i>All versions</i> | |
| Vario IPPoE <i>v1.3.1</i> | |

Partial Compatibility

| | |
|------------------------------|--|
| Vario IPPoE <i>v1.2.7</i> | The settings and advanced settings pages were the same page in this release so advanced settings cannot be set via DiscoMan on lamps running this firmware. |
| Vario IPPoE <i>v1.1.X</i> | The lamp mode cannot be set on lamps running this firmware using DiscoMan as there is a checkbox for lamp mode to select Local/VMS (this release pre-dated VMS + Local, HTTP and HTTP + Local modes) |