# uSee Web Browser User Interface

## Installation and Set-Up Guide

The uSee Web Browser User Interface is a hardware and software platform that, used in conjunction with a Helvar router system, allows you to view your lighting system, select scenes, programme new scene levels, apply alternate scene and group names, conduct DALI emergency lighting test and reporting functions and monitor energy use.

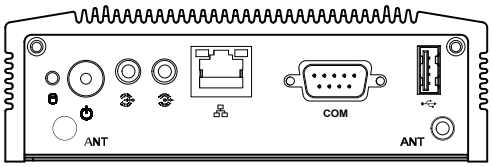
This platform provides both wired and wireless connectivity to all popular web-browsing devices, such as tablets and smartphones, and provides an easy-to-use and intuitive graphical means of controlling your lighting system.

## Contents

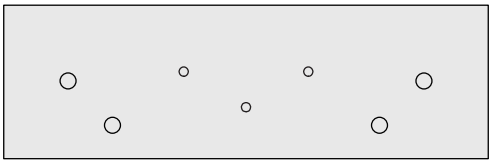

| Section | | Page |
|---|---|---|
| **1.** | **Package contents** | **2** |
| **2.** | **Installation** | **2** |
| 2.1. | Mount the HDR-30-12 PSU on the DIN rail | 2 |
| 2.2. | Mount the uSee unit on the DIN rail | 3 |
| 2.3. | Connect the PSU and the Ethernet cables | 4 |
| **3.** | **Configuration** | **4** |
| 3.1. | Initial access to the uSee unit: Wireless Ethernet | 4 |
| 3.2. | Initial access to the uSee unit: Direct control | 9 |
| **4.** | **Accessing uSee for the first time** | **10** |
| 4.1. | Connect your web-browsing device to the uSee network | 10 |
| 4.2. | Change the default password of the Admin account | 10 |
| **5.** | **Setting up the uSee Web Browser User Interface** | **11** |
| 5.1. | Log in to uSee | 11 |
| 5.2. | Create Editor and BasicUser accounts | 12 |
| **6.** | **Configuring the uSee Wired Network** | **14** |
| 6.1. | Open the Configuration screen | 14 |
| 6.2. | Edit the network settings | 15 |
| **7.** | **Technical Data** | **16** |

# 1. Package contents

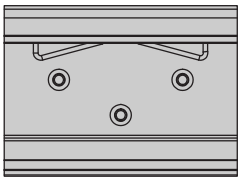
uSee unit




DIN-rail mounting bracket



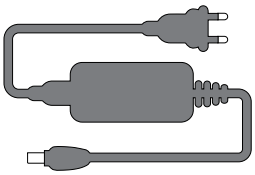
DIN-rail clip



HDR-30-12 PSU

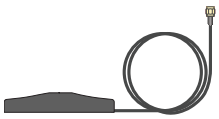
DC feed plug

12 VDC AC/DC power adaptor

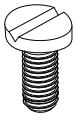


Wi-Fi antenna

Antenna extension with magnetic base



7 × screws

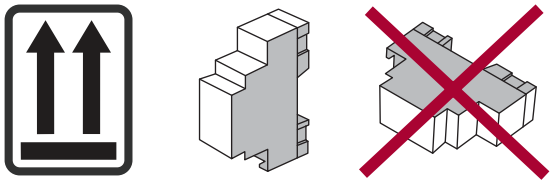


# 2. Installation

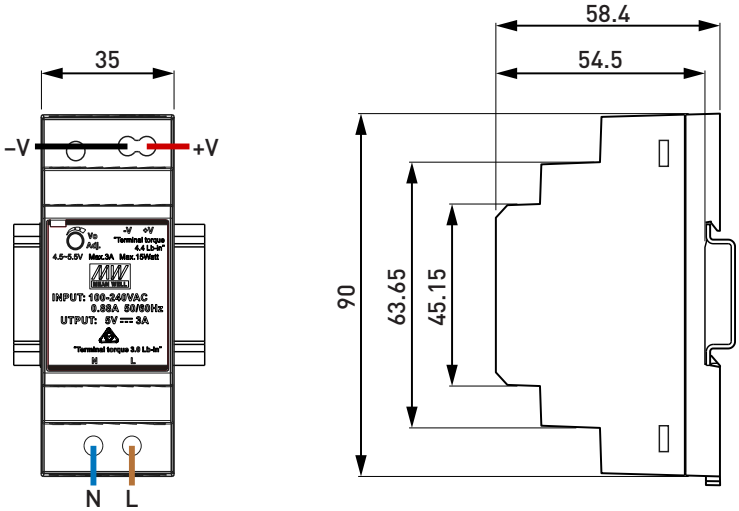
Take the following steps to mount the uSee unit:

1. Mount the HDR-30-12 PSU on the DIN rail. For details, see section 2.1 below on this page.
2. Mount the uSee unit on the DIN rail. For details see section 2.1 on page 2.

## 2.1. Mount the HDR-30-12 PSU on the DIN rail

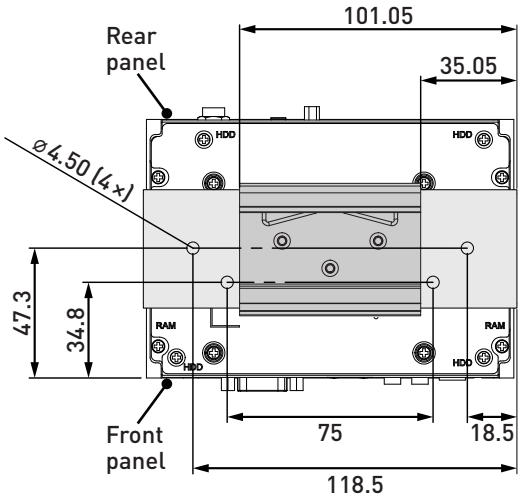


### Mounting dimensions (mm) and connections

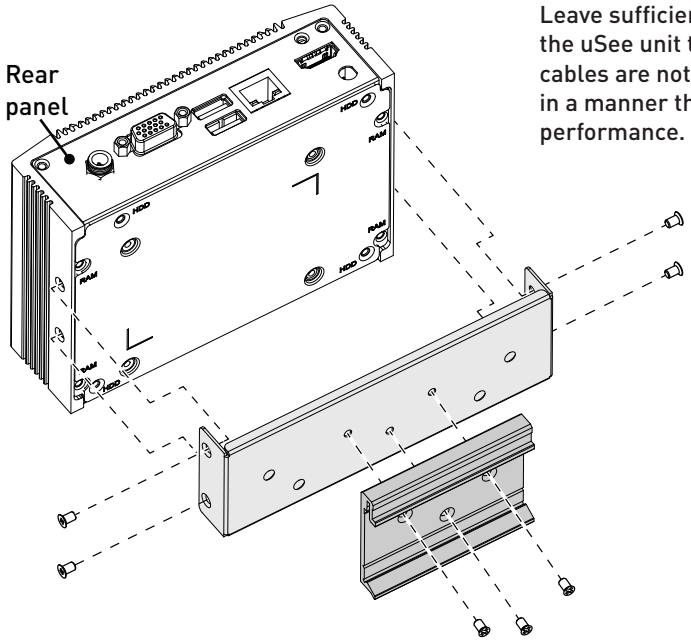


## 2.2. Mount the uSee unit on the DIN rail

### Mounting dimensions (mm)

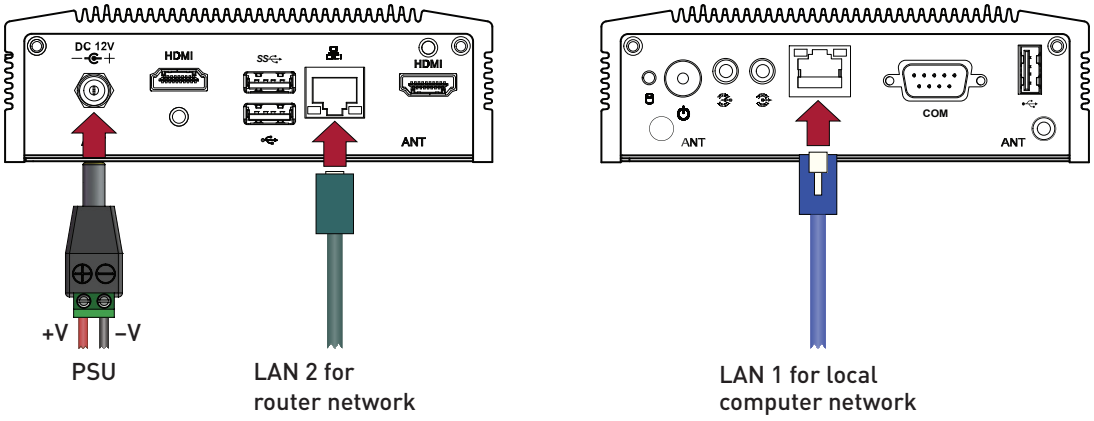



### Mounting procedure




Leave sufficient clearance around the uSee unit to ensure that the cables are not crushed or bent in a manner that may affect their performance.

## 2.3. Connect the PSU and the Ethernet cables




# 3. Configuration

There are two methods of connecting to the uSee unit from a device running a web browser.

1. **Wireless Ethernet**: Connect to the uSee unit via wireless Ethernet.
   For configuration instructions, see section 3.1, 'Initial access to the uSee unit: Wireless Ethernet', on this page.

*Note: uSee generates an ad-hoc Wi-Fi network that may be incompatible with certain devices. If wireless access is still required, you can connect a wireless access point (not supplied) to the uSee*

2. **Direct control**: Operate the uSee unit directly, using a keyboard, a mouse and a monitor/display.
   For configuration instructions, see section 3.2 on page 9.

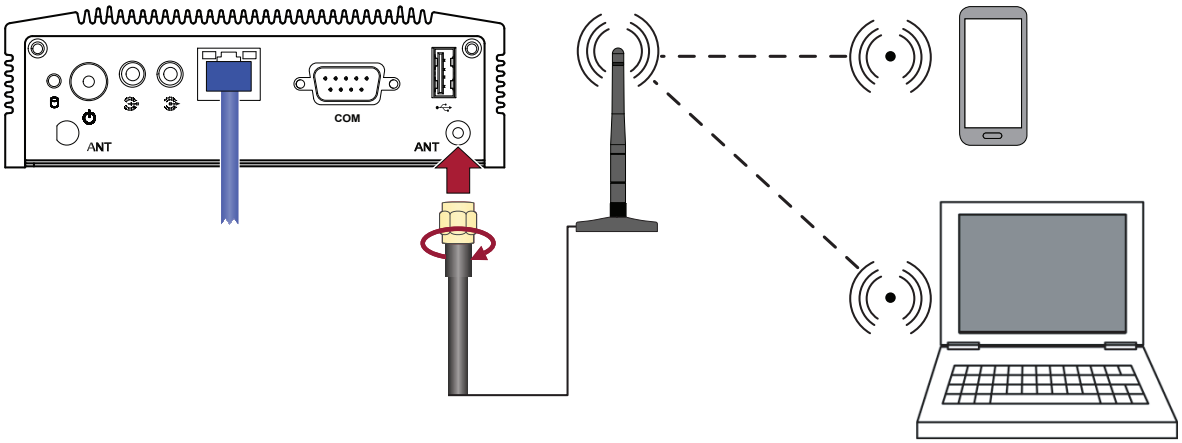
## 3.1. Initial access to the uSee unit: Wireless Ethernet

Follow the steps below to configure the uSee Web Browser User Interface using wireless Ethernet to connect to the web-browsing device.

### 3.1.1. Connect the Wi-Fi antenna

To configure the uSee Web Browser User Interface using a wireless Ethernet connection, follow these steps:

1. Connect the magnetic antenna extension to the rear panel of the uSee unit.
2. Connect the Wi-Fi antenna to the magnetic base of the antenna extension.

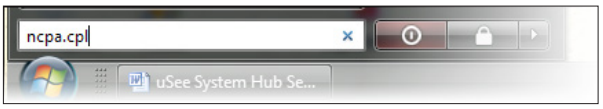


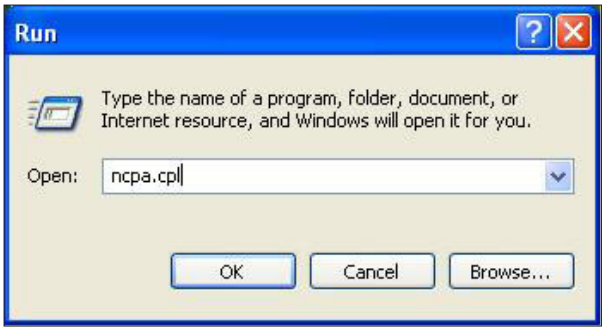

Follow these recommendations to optimise the performance and reliability of the wireless connection:

a. Set up your uSee unit as close as possible to the centre of the area for which you want to provide wireless networking.
b. Keep the antenna away from objects that cause wireless interference. Large metal objects, fluorescent or halogen lights, microwaves, cordless phones and their base stations and wall ducting or vents can block or interfere with wireless signals.
c. Place the antenna in an elevated location.

### 3.1.2. Open the 'Network Connections' window

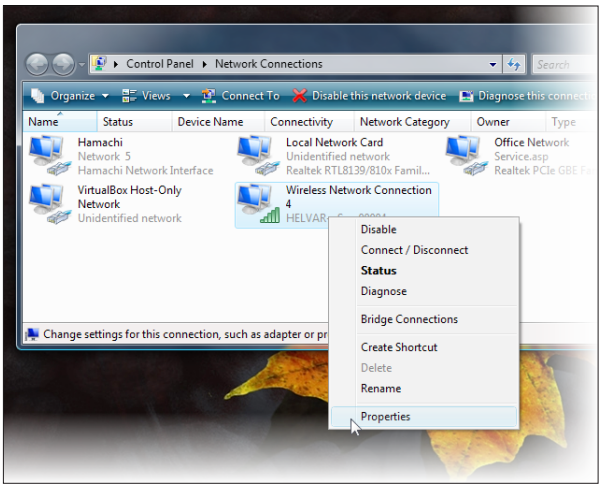
1. Click the **Start Menu** button.
2. Access **ncpa.cpl** from the Windows Search box.



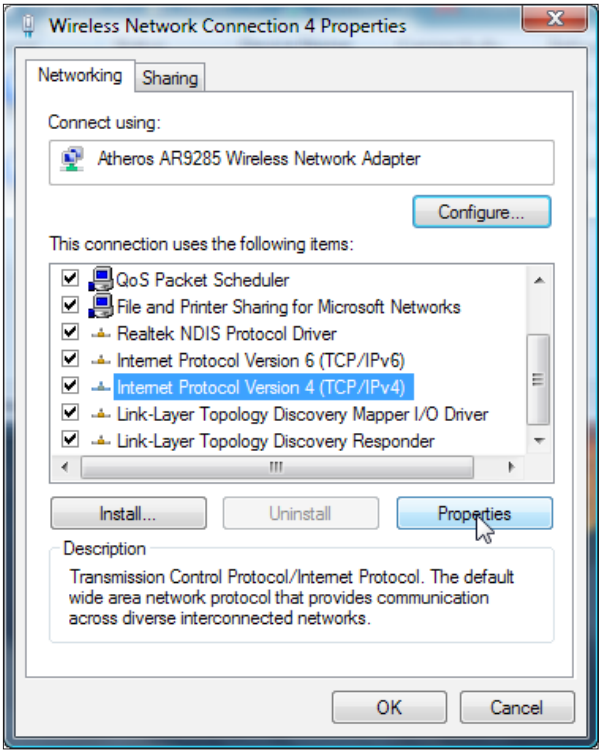
## 3.1.3. Access Wireless Network Adapter properties

1. Right-click the wireless network adapter.
2. Select **Properties**.



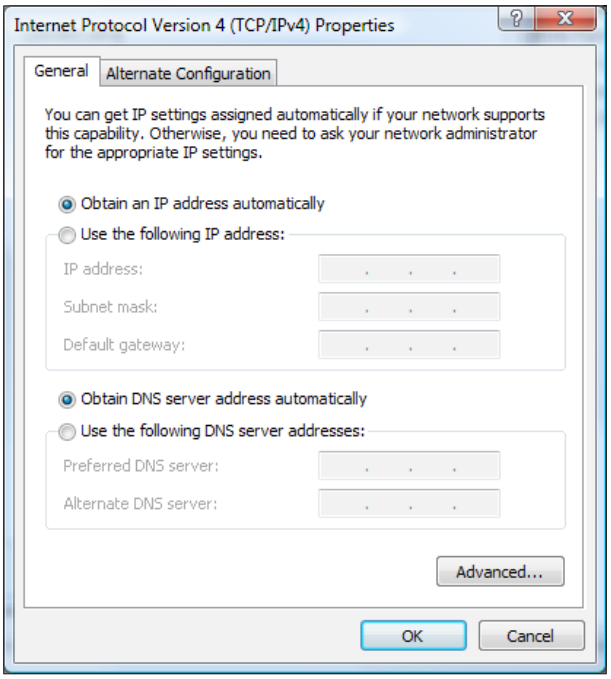

## 3.1.4. Access Internet Protocol properties

1. Select the **Internet Protocol** item. If more than one is listed, select the IPv4 item.
2. Click the **Properties** button to display the **Internet Protocol (TCP/IP) Properties** dialog box.



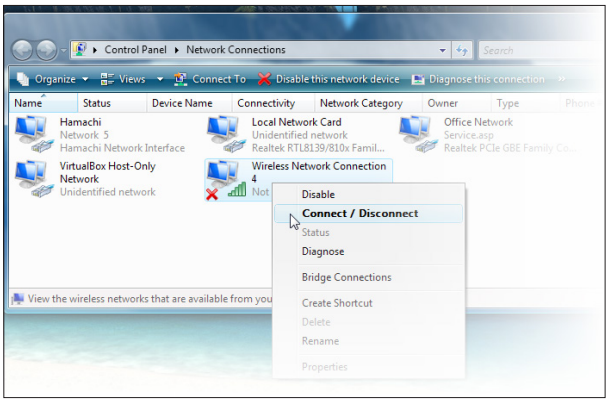
## 3.1.5. Set the IP address and subnet mask of the web-browsing device

1. Click **Obtain an IP address automatically**.
2. Click **Obtain DNS server address automatically**.
3. Click **OK**.
4. Click **Close** in the **Wireless Network Connections Properties** window.




## 3.1.6. Connect the web-browsing device to the wireless network

1. In the **Network Connections** window, right-click the wireless network adapter.
2. Select **Connect/Disconnect**.



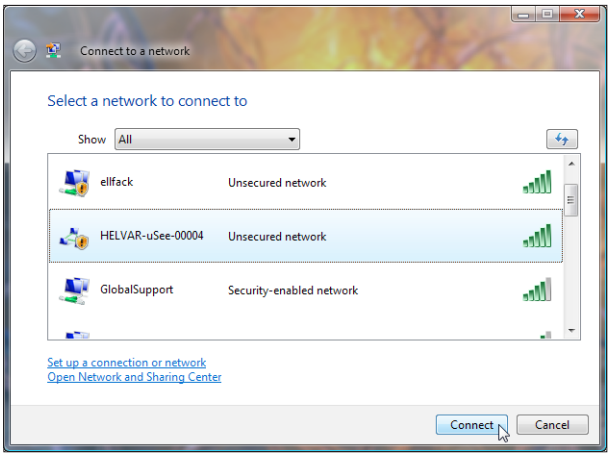

3. Select the uSee unit's wireless network.

   The network SSID will be:

   **HELVARuSeeXXXXX**

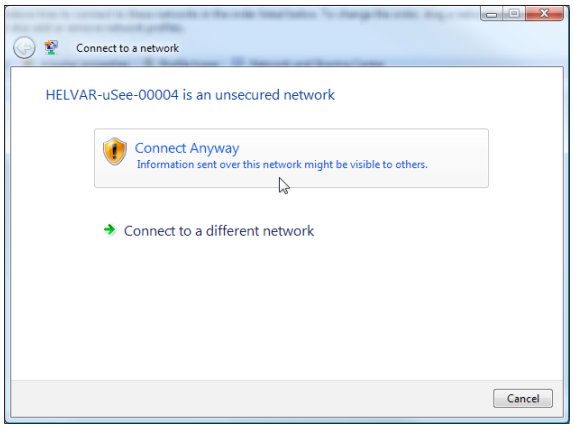
   where XXXXX is the uSee unit's serial number.

   The serial number is printed on a label on the uSee unit.




4. Click **Connect**.

5. Click **Connect Anyway** (when warned that information on this network may be visible to other people).

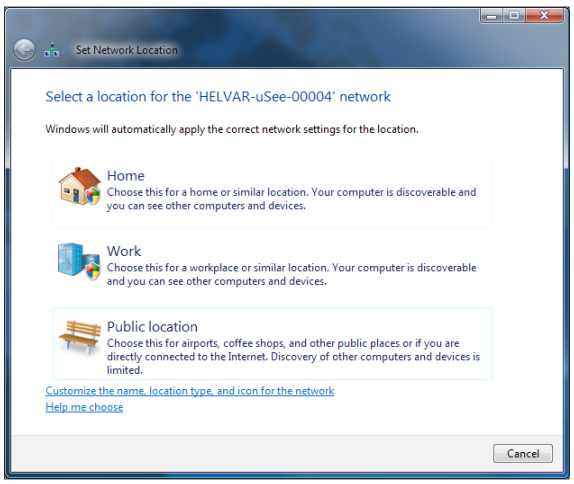



## 3.1.7. Save the network settings to your web-browsing device

1. When prompted, select the **Save this network** check-box.

## 3.1.8. Set network location as 'Public location'

1. When prompted, click the **Public location** option.
2. Go to section 4 on page 10.

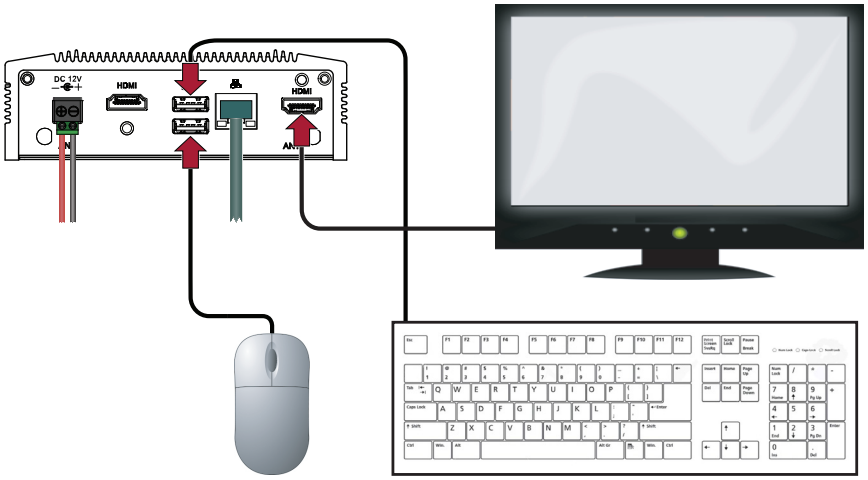


## 3.2. Initial access to the uSee unit: Direct control

Follow the steps below to operate the uSee unit directly, using a keyboard, a mouse and a monitor/display.

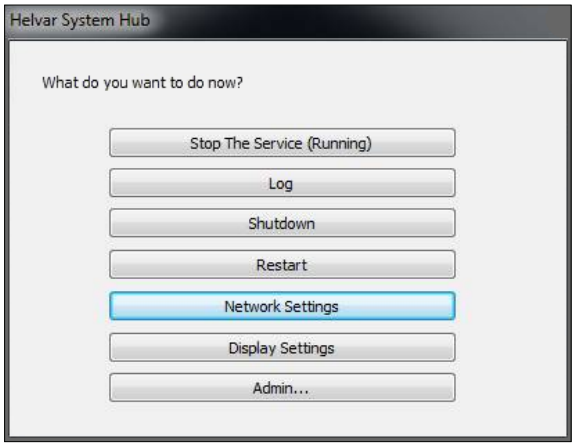
### 3.2.1. Connect a USB mouse and a USB keyboard to the uSee unit.

### 3.2.2. Connect a monitor/display to the uSee unit.




### 3.2.3. Configure the uSee unit's network settings

As soon as the uSee unit is powered on, it will display the **Helvar System Hub** dialog box.



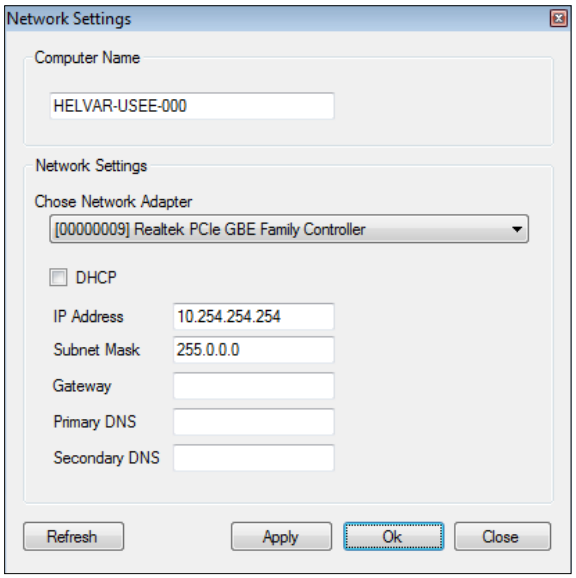

*Note: Consult the network administrator for IP settings compatible with your network.*

1. Click **Network Settings**.

2. When the **Network Settings** dialog box is displayed, type the IP address of the uSee unit.

3. Type the subnet mask, the gateway and the DNS values.

4. Click **Apply**, and then click **Close**.




*Note: The discovery of a workgroup and any further setup of the uSee unit should be managed via the **Configuration** section of its web interface (see section 4 on page 10).*

# 4. Accessing uSee for the first time

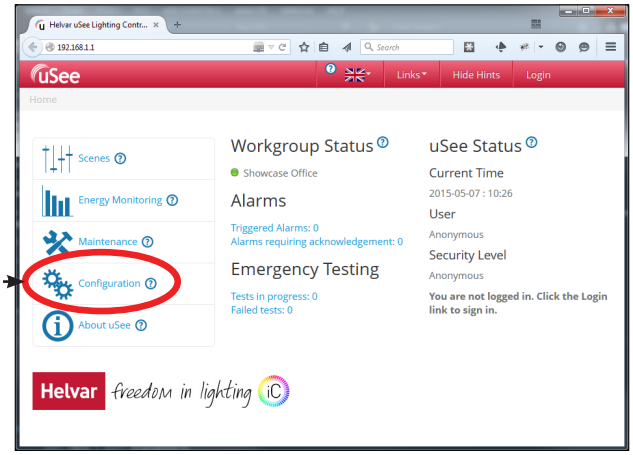
## 4.1. Connect your web-browsing device to the uSee network

1. In the Windows notification area, click the **Network** icon.

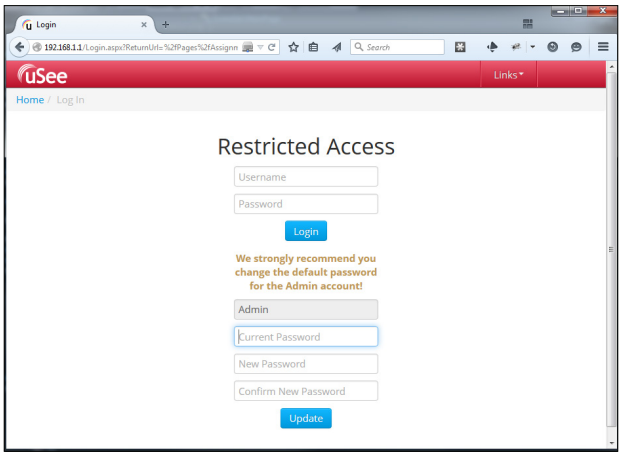
2. From the list of available wireless networks, select **HELVARuSee*[Serial_number]***.
   The serial number is printed on the label at the rear chassis of the uSee unit.

## 4.2. Change the default password of the Admin account

1. In the browser's address bar, type **192.168.1.1**, and then press **Enter** to display uSee's main screen.




2. Click **Configuration** to display the **Restricted Access** screen.




3. Note that the username for the Administrator account is **Admin**. You cannot change this username.

4. In the **Current Password** text box, type **password**. This is the default password.

5. In the **New Password** text box, type the new password that you want to use.
   The new password must contain at least eight characters, at least one number, and at least one letter. It must not contain any special characters.
   If you forget your password, contact your Helvar representative.

6. In the **Confirm New Password** text box, retype the password that you want to use.

7. Click the **Update** button, and uSee will create the Administrator account.

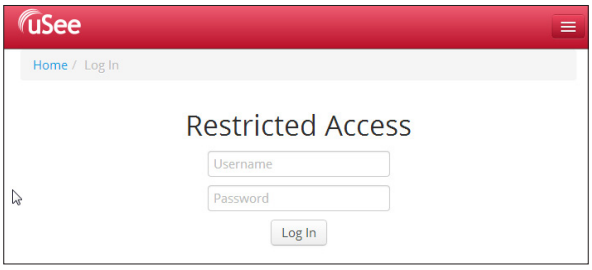
Once you have completed this task, the options located under the **Login** button will not appear again.

# 5. Setting up the uSee Web Browser User Interface

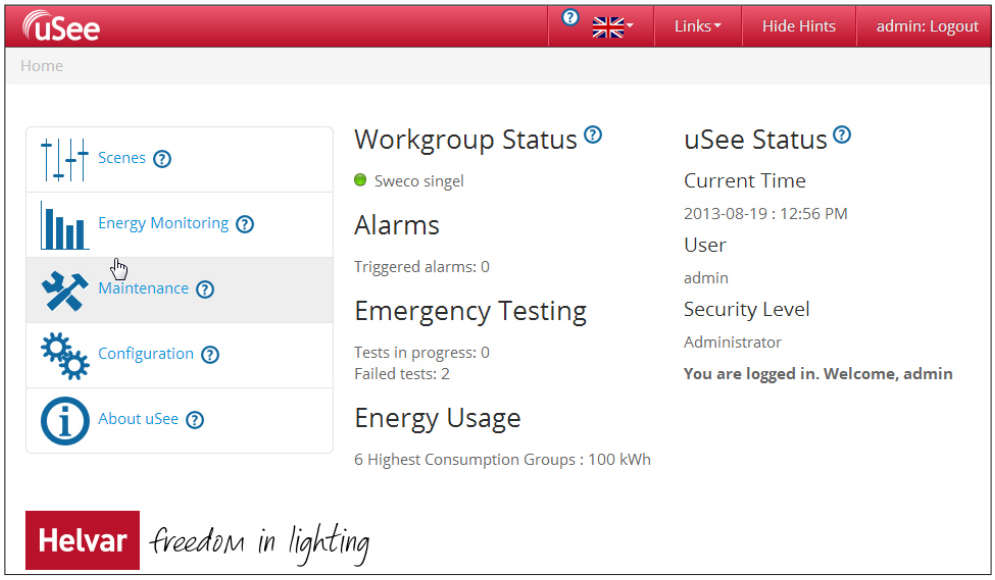
## 5.1. Log in to uSee

1. Click **Login** in upper-right corner of the screen.

2. In the **Restricted Access** window, type the administrator username and password.

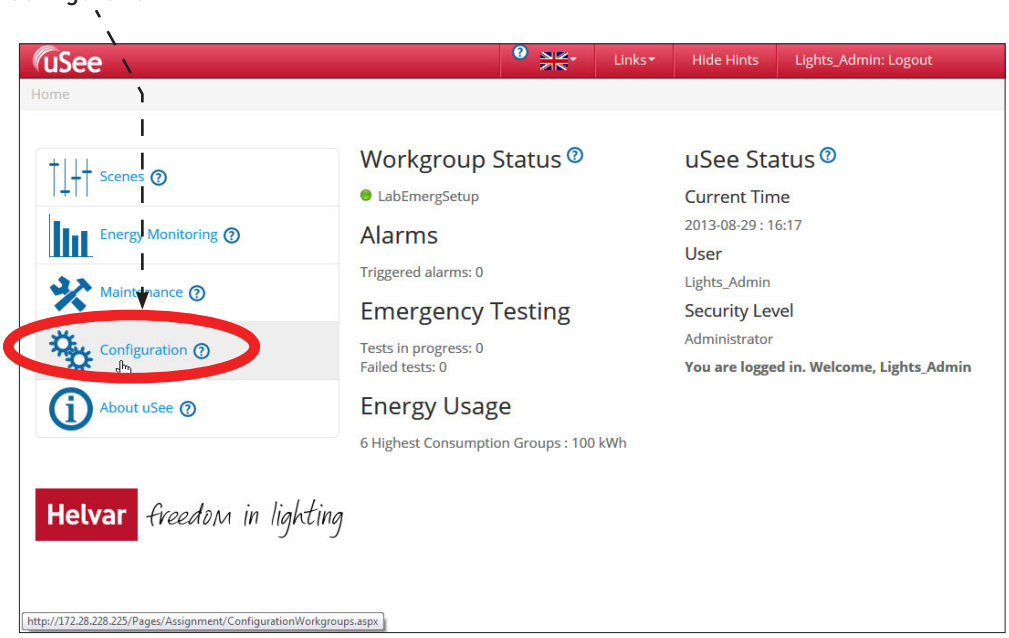



3. Click **Log In** to display the main screen. Now create two more user accounts following the steps described in section 5.2 on page 12.

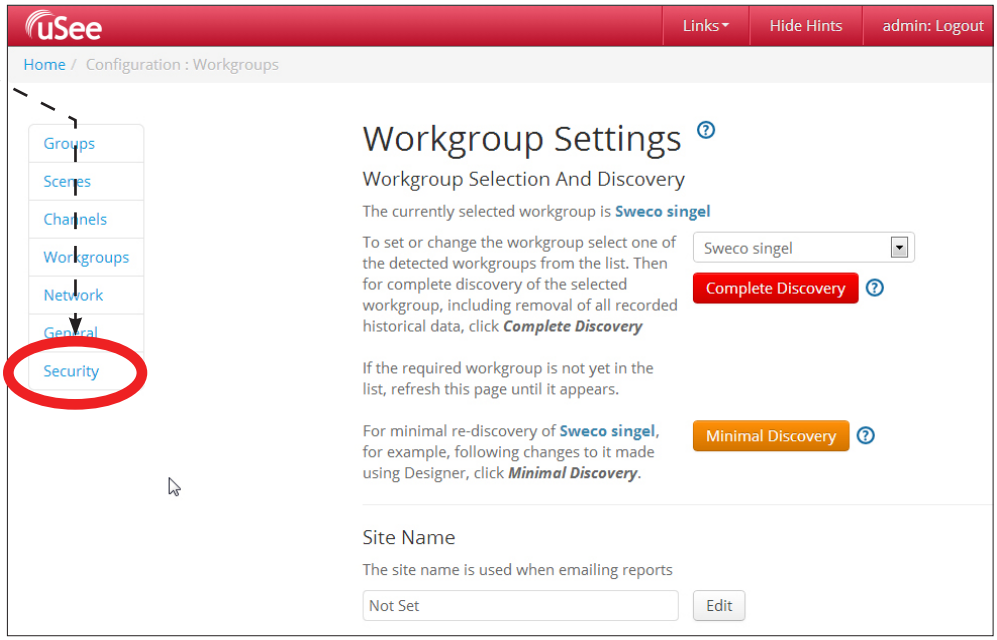


## 5.2. Create Editor and BasicUser accounts

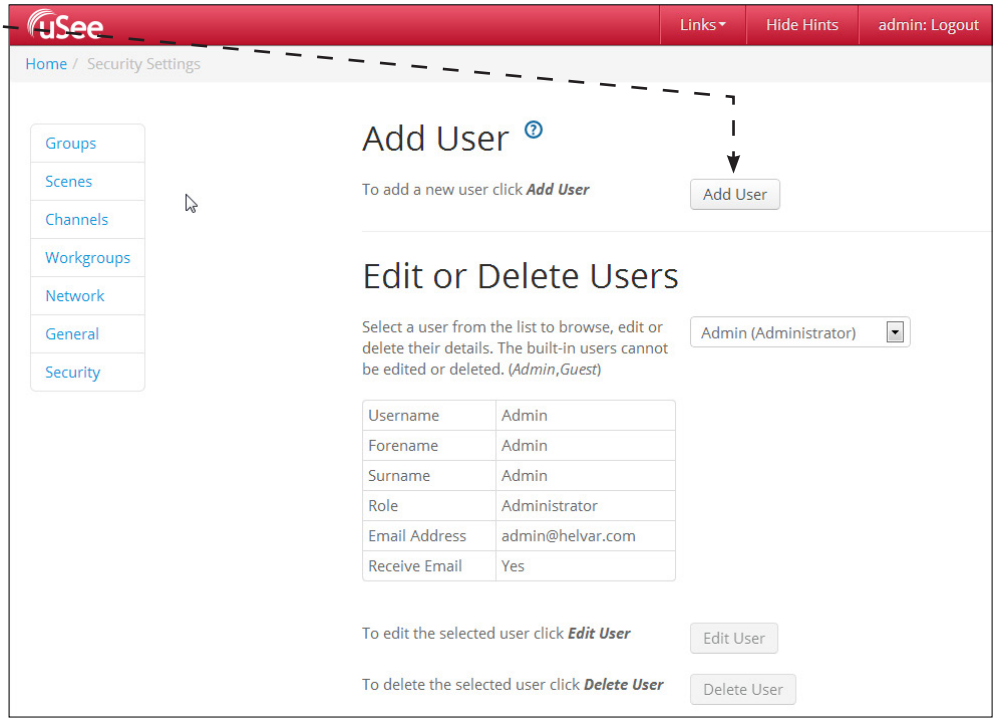
1. On the main screen, click **Configuration**.




2. Click **Security**.

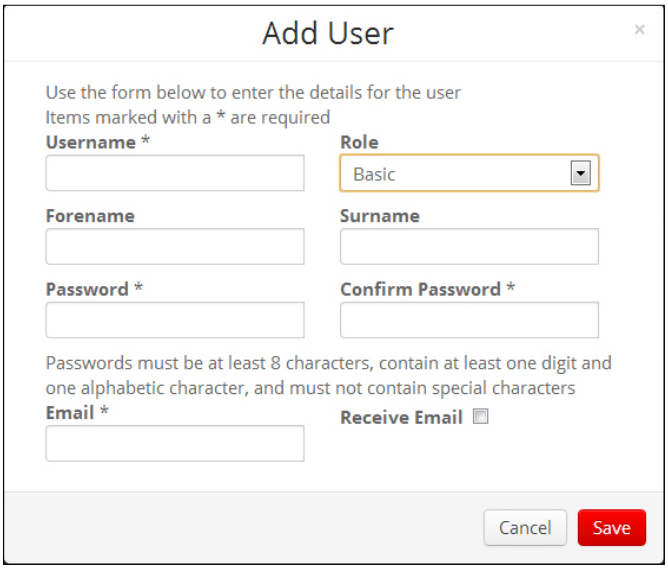


3. Click **Add User**.




4. Type the user details (select the **Editor** role from the drop-down menu), and then click **Save**:

**Receive Email**: if selected, this user will receive uSee system emails, such as alarm notifications.



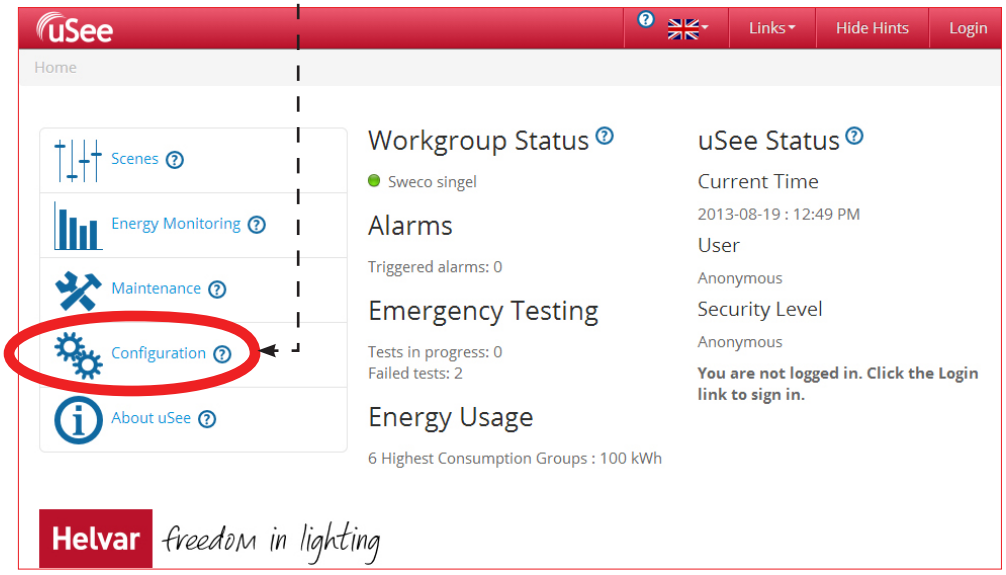

5. Add another new user in the role of a **Basic** user.

6. Return to the uSee main screen.

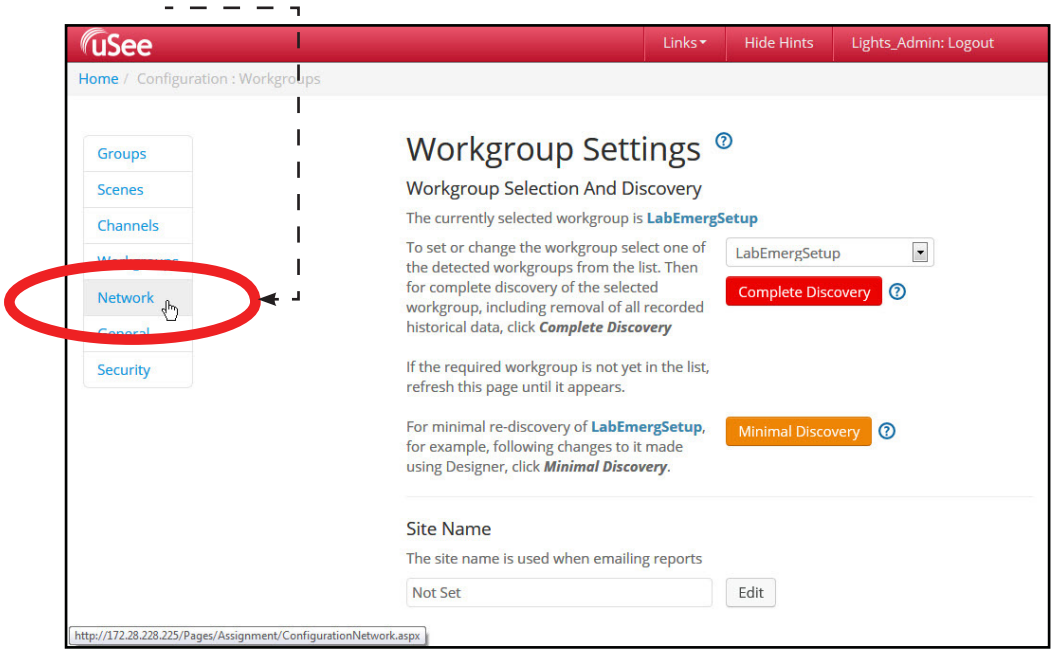
# 6. Configuring the uSee Wired Network

## 6.1. Open the Configuration screen

1. On the main screen, click **Configuration**.

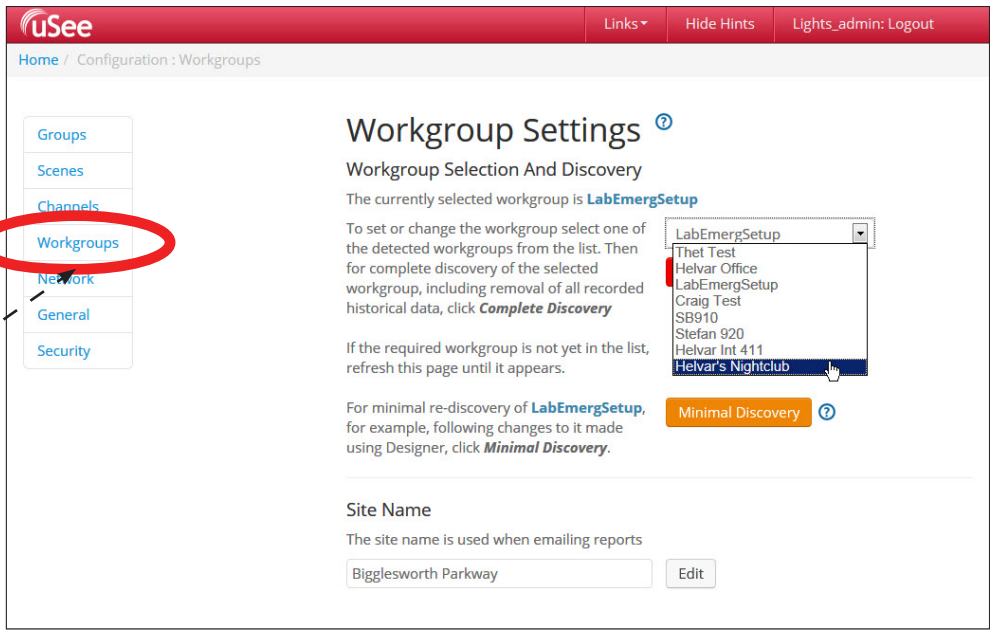



2. On the **Configuration** screen, click **Network**.



## 6.2. Edit the network settings

1. On the **Network Settings** screen, click the **Edit** buttons, and then type the **Computer Connection** IP address (i.e. the IP address of the uSee unit) and the **Lighting Router Connection** IP address (i.e. the connection from the uSee unit to the lighting router).




*Note 1: Consult the network administrator or commissioning engineer for IP settings compatible with your lighting router network.*

*Note 2: After you change the network settings for the Lighting Router Connection, the uSee Web Browser User Interface may take several minutes to see the workgroups on that Ethernet network. Go to the **Workgroups** page and refresh your browser on a regular basis until the expected workgroup appears in the **Workgroups** list.*

2. Make sure that the connection has been made: click the **Workgroup Settings** bar.

   When the connection is made, the workgroup name will appear in the drop-down list on the **Workgroup Settings** section of the **Configuration Settings** page.

3. Click **Workgroups**.

4. When the connection is made, the workgroup name will appear in the list: select it.

5. Click **Minimal Discover** or **Complete Discovery**.

6. Click **Home** to return to the uSee main screen.

7. You can now control the lighting system using uSee: context-sensitive help is available by clicking the (?) icons.

# 7. Technical Data

### Power

| | |
|---|---|
| **Input voltage:** | Single 12 VDC ± 10 % |
| **Typical power consumption:** | 6 W |

### Connectivity

| | |
|---|---|
| **LAN 1:** | 10/100/1000 Mbps Intel I210 GbE. For router network. |
| **LAN 2:** | 10/100/1000 Mbps Intel I210 GbE. For local computer network. |
| **Wi-Fi:** | Support Wi-Fi 802.11 a/b/g/n |

### I/O interface

| | |
|---|---|
| **HDMI:** | 2 × lockable HDMI connectors, support up to 1920 × 1080 at 60 Hz |
| **USB interface:** | 2 × USB 2.0 & 1 × USB3.0 |

### Mechanical data

| | |
|---|---|
| **Dimensions:** | 133.8 mm × 43.1 mm × 104 mm |
| **Mounting:** | DIN rail (installation in switchgear/ controlgear cabinet) |
| **Weight:** | 0.8 kg |
| **IP code:** | IP20 |

### Operating and storage conditions

| | |
|---|---|
| **Ambient temperature:** | 0 °C to +40 °C |
| **Relative humidity:** | Max. 90 %, noncondensing |
| **Storage temperature:** | –40 °C to +85 °C |

### Conformity and standards

| | |
|---|---|
| **EMC emission:** | EN 55032 |
| **EMC immunity:** | EN 55024 |
| **Safety:** | EN 60950 |
| **Environment:** | Complies with WEEE and RoHS directives. |

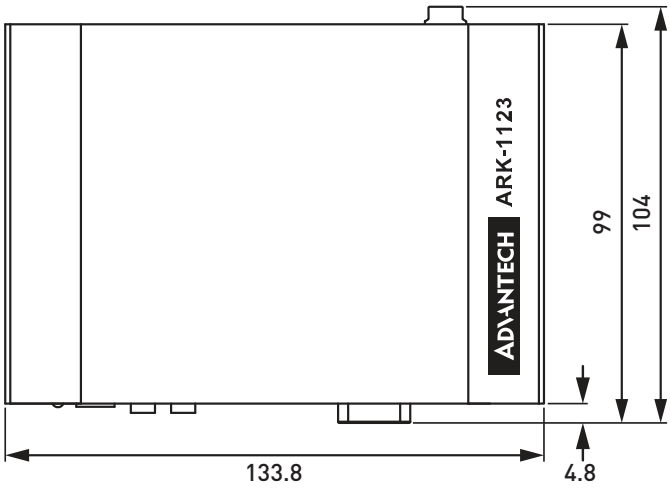
### Order code

8801+HDR-30-12: uSee Web Browser User Interface with 12 VDC, 30 W DIN-rail PSU.

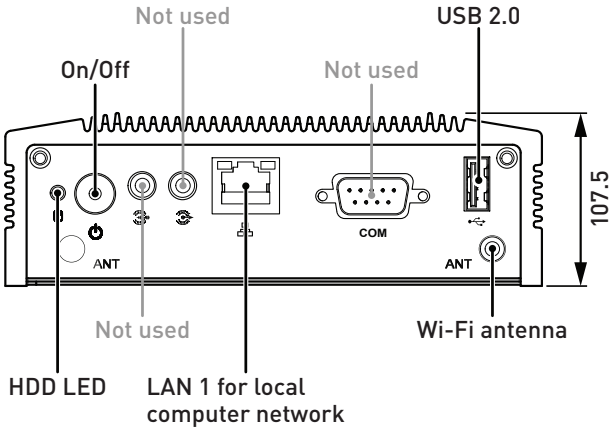
Helvar Ltd
Hawley Mill
Hawley Road
Dartford
DA2 7SY
UNITED KINGDOM

**www.helvar.com**

### Dimensions (mm) and Connections




### Front panel




### Rear panel