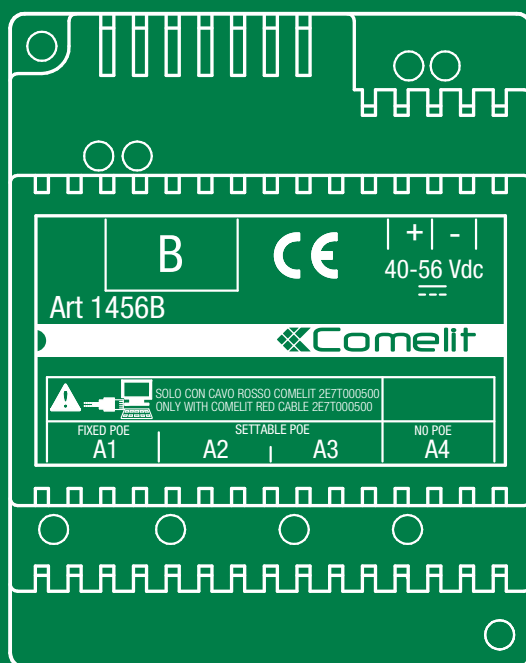


EN

TECHNICAL  
MANUAL



Multi-apartment Gateway 1456B

 **Comelit**<sup>®</sup>  
Passion. Technology. Design.

# Warning

## Intended use

This Comelit product has been designed and manufactured for use in the creation of audio and video communication systems in residential, commercial, industrial and public buildings.

## Installation

All activities connected to the installation of Comelit products must be carried out by qualified technical personnel, with careful observation of the indications provided in the Manuals / Instruction sheets supplied with those products.

## Wires

Disconnect the power supply before carrying out any operations on the wiring.

Use wires with a cross-section suited to the distances involved, observing the instructions provided in the system manual.

We advise against running the system wires through the same duct as power cables (230V or higher).

## Safe usage

To ensure Comelit products are used safely:

- carefully observe the indications provided in the Manuals / Instruction sheets
- make sure the system created using Comelit products has not been tampered with / damaged.

## Maintenance

Comelit products do not require maintenance aside from routine cleaning, which should be carried out in accordance with the indications provided in the Manuals / Instruction sheets.

Any repairs must be carried out:

- for the products themselves, exclusively by **Comelit Group S.p.A.**,
- for the systems, by qualified technical personnel.

## Disclaimer

**Comelit Group S.p.A.** accepts no liability for

- any purpose other than the intended use
- failure to observe the indications and warnings contained in this Manual / Instruction sheet.

**Comelit Group S.p.A.** reserves the right to change the information provided in this Manual / Instruction sheet at any time and without prior notice

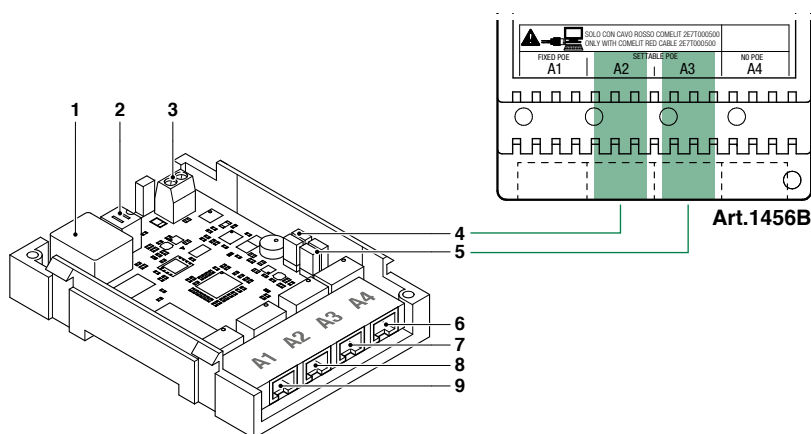
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# Description

Article **1456B** is a multi-apartment gateway that:

- can serve up to 200 apartments, with a maximum of 15 slave devices per apartment;
- answer calls from a external unit via a virtual door entry monitor App for smart phone/tablet or using a normal GSM or landline telephone;
- incorporates the SIP protocol to enable telephone calls via SIP server or via virtual lines purchased from a SIP services provider;
- allows up to 4 simultaneous audio/video calls;
- can be configured remotely from a web interface.

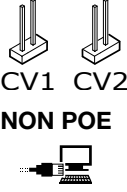

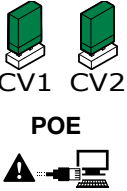
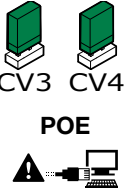


1. **B** Ethernet port (**“POE”**) for ViP system riser input (default addressing: **“Autoip”**).
2. Dip switches for the procedures **““Reboot with predetermined network settings”** and **“Restoring factory settings”**.
3. Power supply input via **Art. 1441, Art. 1441B**.
4. **CV1** and **CV2** for setting port **A2**.
5. **CV3** and **CV4** for setting port **A3**.
6. **A4 non POE** Ethernet port for PC or router connection (default: **“Static IP address”** 192.168.1.200, netmask 255.255.255.0).
7. **A3 non POE** settable Ethernet port **“POE”** (default: **“Static IP address”** 192.168.1.200, netmask 255.255.255.0). **Set the port as “POE”** (see **“Settable POE”**) **if you want to connect devices that require a power supply (door entry monitors, for example)**.
8. **A2 non POE** settable Ethernet port **“POE”** (default: **“Static IP address”** 192.168.1.200, netmask 255.255.255.0). **Set the port as “POE”** (see **“Settable POE”**) **if you want to connect devices that require a power supply (door entry monitors, for example)**.
9. **A1** Ethernet port **“POE”** (default: **“Static IP address”** 192.168.1.200, netmask 255.255.255.0).



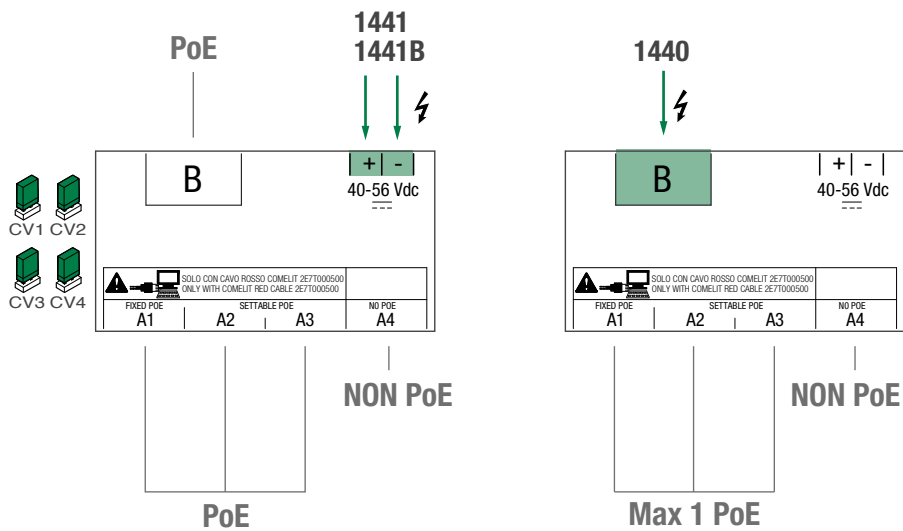
**With port “POE” DO NOT use standard Ethernet to connect to the router or to the PC; use only the red Comelit cable Art.2E7T000500 to connect to the router or to the PC.**

# Settable POE

		SETTABLE POE	
		A2	A3
DEFAULT	 <p>CV1 CV2 NON POE</p> <p>STANDARD ETHERNET</p>	 <p>CV3 CV4 NON POE</p> <p>STANDARD ETHERNET</p>	
SETTABLE	 <p>CV1 CV2 POE</p> <p>DO NOT USE STANDARD ETHERNET Only connect to the router or PC using the red Comelit cable 2E7T000500</p>	 <p>CV3 CV4 POE</p> <p>DO NOT USE STANDARD ETHERNET Only connect to the router or PC using the red Comelit cable 2E7T000500</p>	



With the device powered by Art. 1440 via port B, there will be sufficient PoE power available to operate a maximum of 1 door as "POE" on port A1, A2 or A3.



# Technical characteristics

## MAIN FEATURES

<b>Compatible system</b>	SYSTEM
<b>DIN rail mounted</b>	Yes
<b>DIN modules (no.)</b>	4
<b>Power supply voltage</b>	48Vdc - 56Vdc
<b>Min/max power consumption (mA)</b>	50mA
<b>Operating temperature (°C)</b>	+5°C to +40°C
<b>Operating relative humidity</b>	25% / 75%
<b>IP protection rating</b>	IP30

## GENERAL DATA

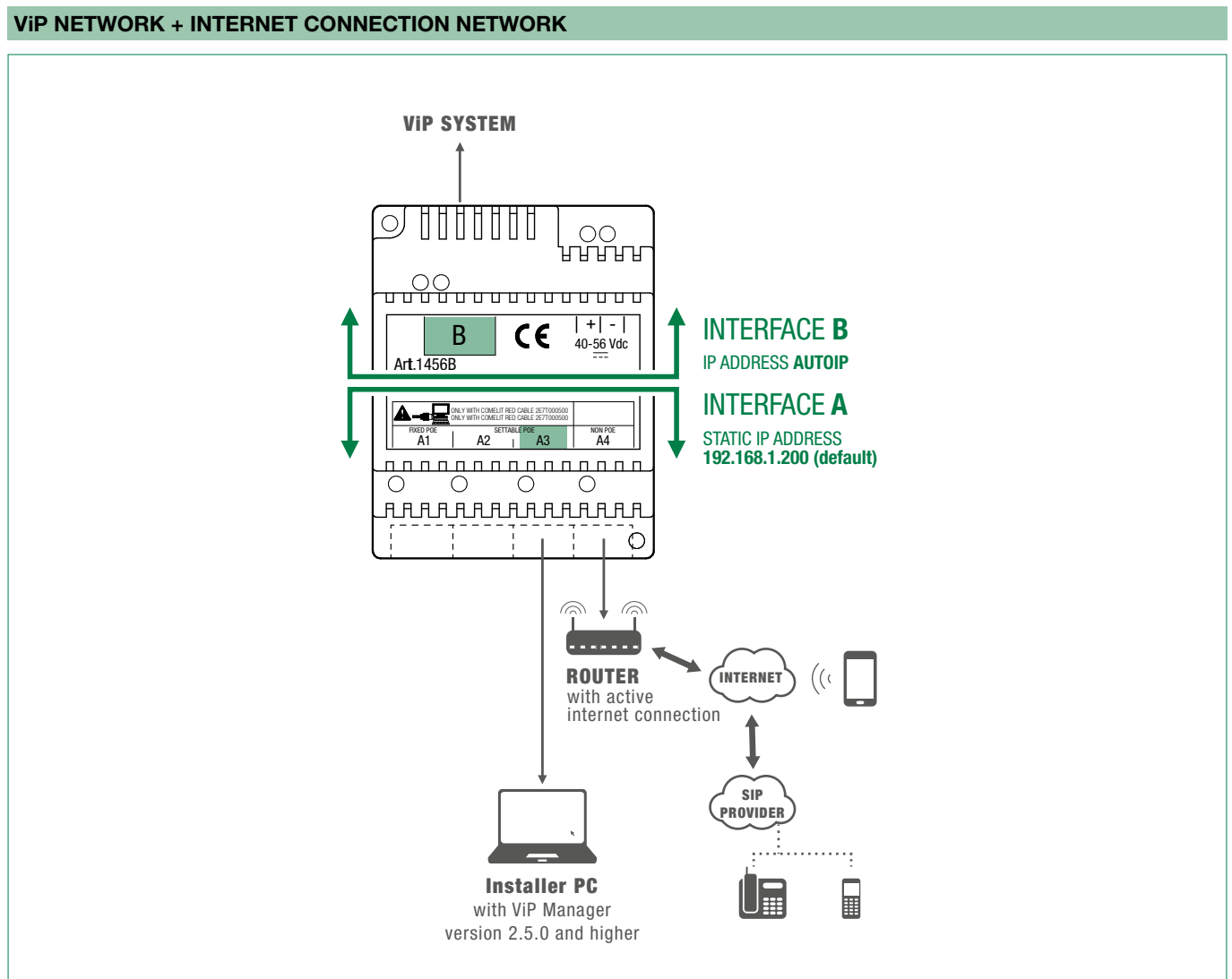
<b>Product height (mm)</b>	62
<b>Product width (mm)</b>	70
<b>Product depth (mm)</b>	90

# Configuration of Art.1456B

- ✓ This operation requires a PC loaded with the software ViP Manager version 2.5.0 or later (downloadable from the website pro.comelitgroup.com).
- ✓ An active internet connection is also required.

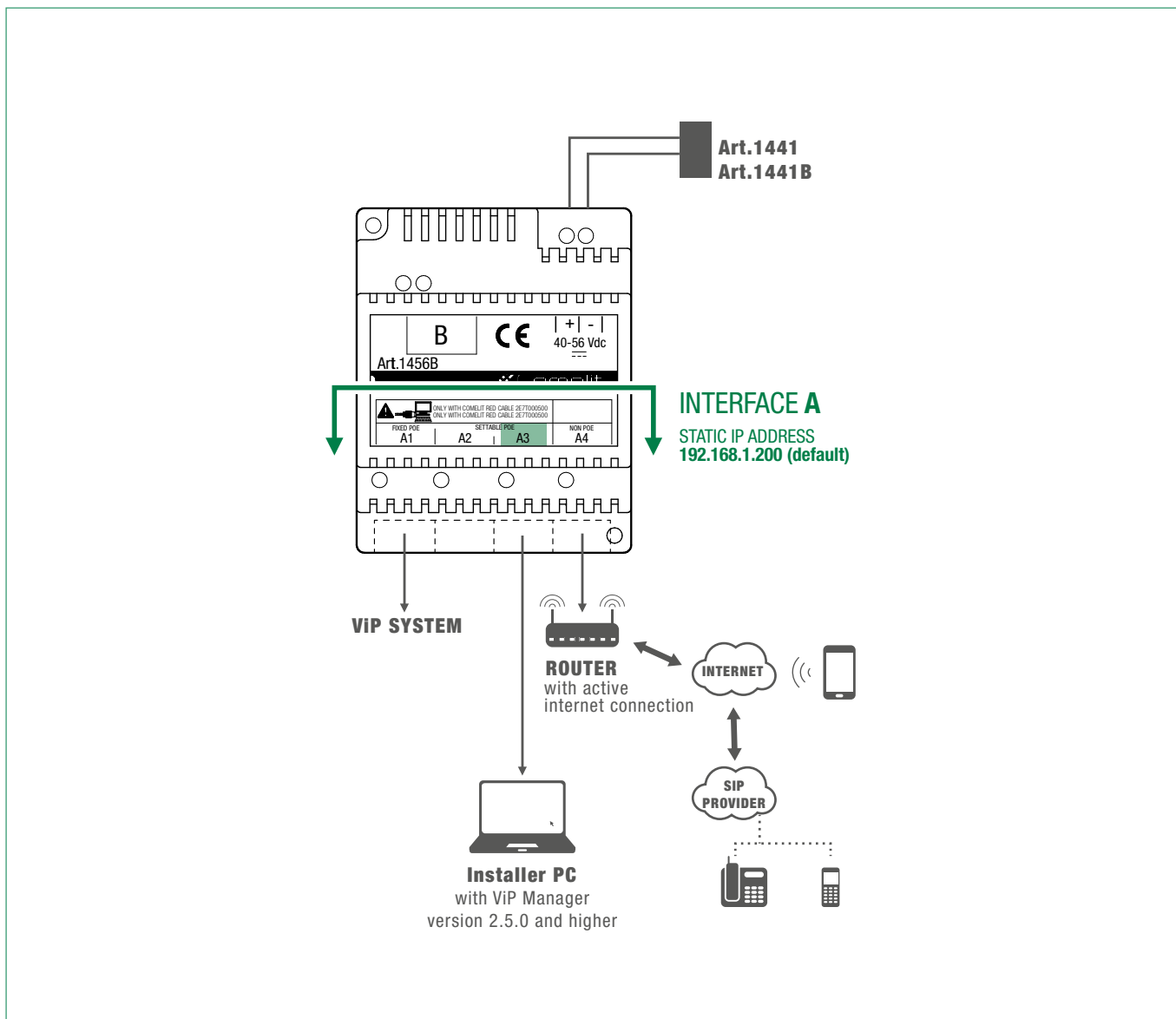
## 1) Connection

- ▶ Article1456B has 2 network interfaces, A and B, labelled for easy identification, which can be configured separately to meet different system requirements. Depending on the type of system, connect the devices as shown in the following figures:



**Take particular care with regard to the network interface settings and do not configure interfaces A and B with the same addresses or similar parameters: each IP address must be unequivocal, the addresses of the interfaces A and B must not belong to the same subnet.**

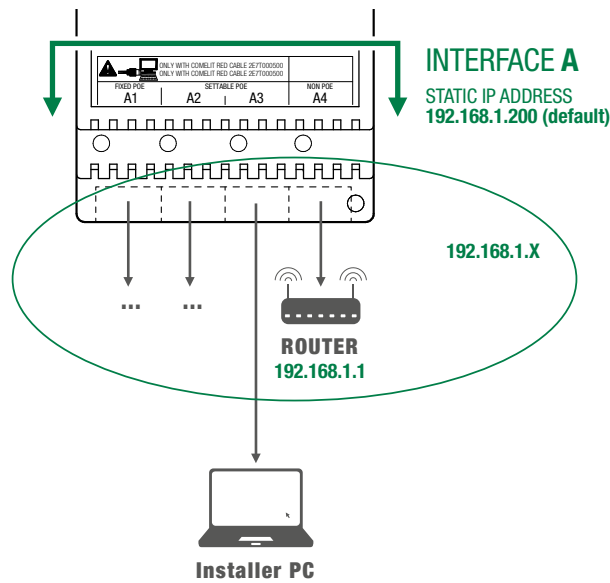
**SYSTEM WITH SINGLE NETWORK**



**All system devices form part of a single network, so it is only necessary to configure interface A. In this case, DO NOT alter the configuration of interface B.**

## 2) ViP Manager addressing

**CASE 1: default address of the device (192.168.1.200) belonging to the same router network (e.g.: 192.168.1.1)**



### PERFORM A DHCP SYSTEM SCAN AND ASSIGN A ViP ADDRESS

Follow the procedure below to perform a system scan in **“DHCP”**, to locate all the devices connected to interfaces A and B:

- an IP address will be automatically assigned to the devices in addressing mode **“Autoip”** (connected to interface B);
- an IP address will be automatically assigned to the devices in addressing mode **“DHCP”** (connected to interface A), if the system is connected to a server with the function **“DHCP”** active;
- devices with **“Static IP address”** will be identified only if they have a network address that is compatible with that of interface A.

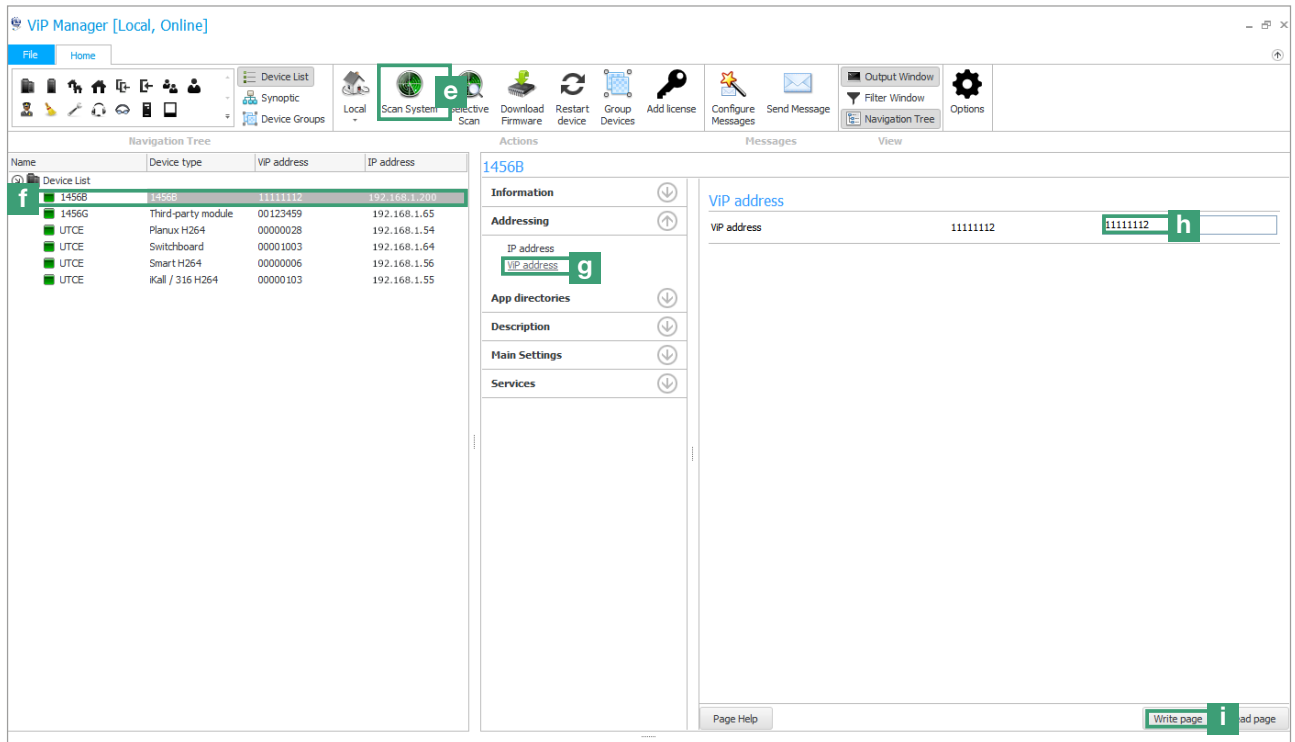
1. From **Options [a]** / **Local connections [b]** tick **DHCP Enable [c]** and confirm **[d]**.



2. Launch the system scan by pressing **Scan System [e]**.

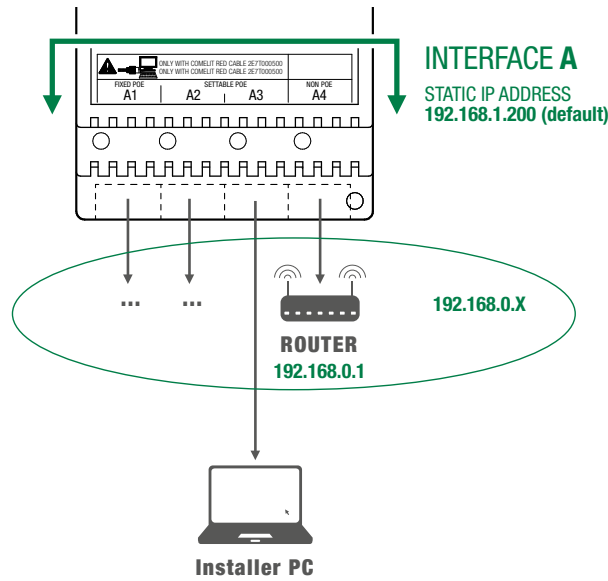
» all the devices connected to the system will be displayed in the device list.

3. Select the device 1456 B **[f]**, select **Addressing/ViP address [g]**, assign an unequivocal ViP address to the device **[h]** and press **Write page [i]** to save the current settings.



*In the case of a system with 2 1456B devices, it will be necessary to assign to interface A of one of the two devices a new **“Static IP address”** (as described in "case 2"), as each device must have a unequivocal IP address.*

**CASE 2: default address of the device (192.168.1.200) NOT belonging to the same router network (e.g.: 192.168.0.1)**



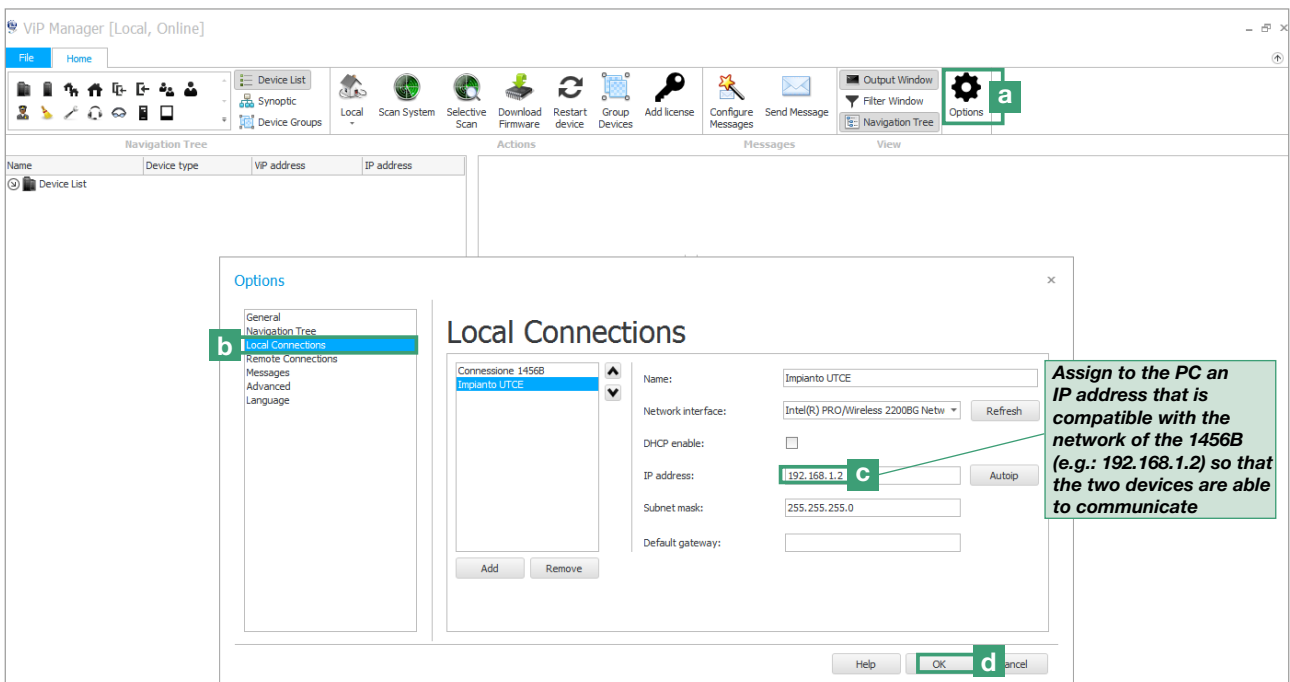
**i** Interface A must be assigned a new **“Static IP address”** in the same network as the devices connected to interface A

**ASSIGN A NEW STATIC IP ADDRESS TO INTERFACE A**

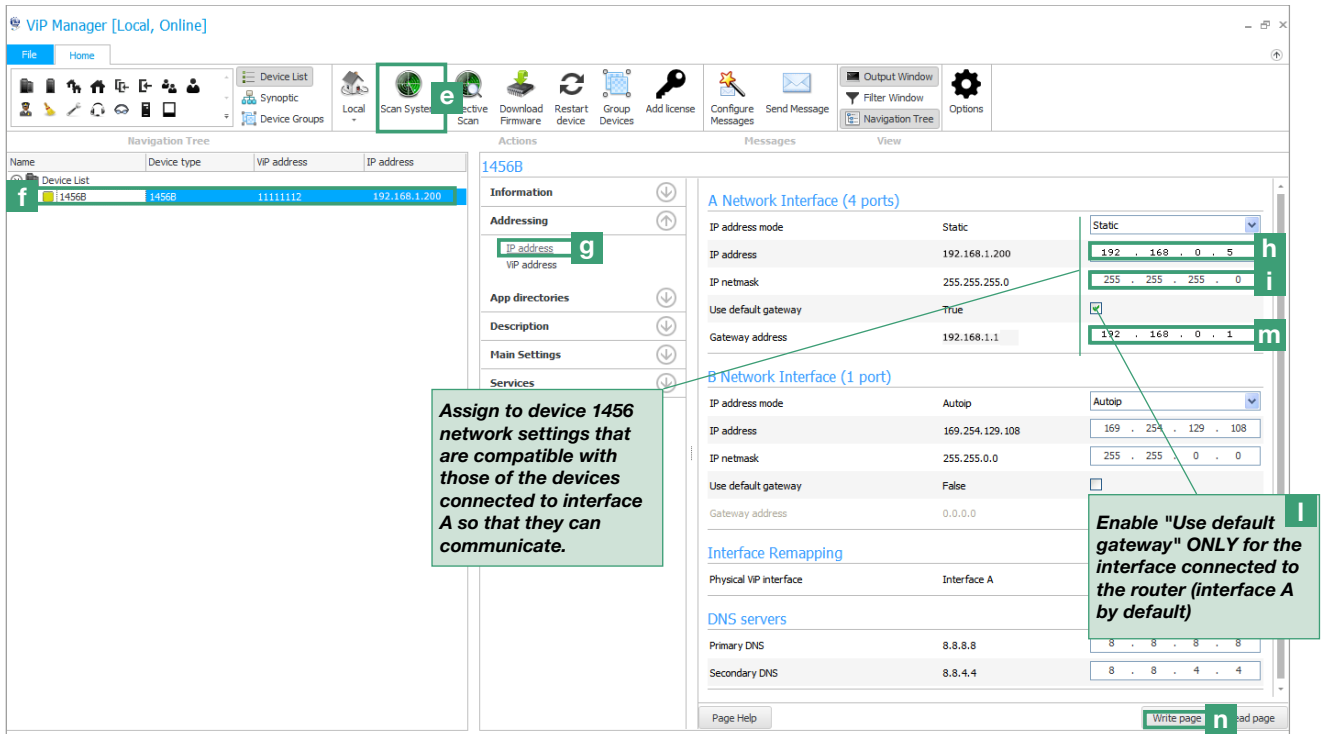
The following procedure describes how to assign network settings to the device 1456B that are compatible with those of the devices connected to interface A.

1. Open the software ViP Manager version 2.5.0 or later (downloadable from the website pro.comelitgroup.com).
2. From **Options [a]** / **Local connections [b]** untick the DHCP enable box and assign an IP address to your PC **[c]** (in the example: 192.168.1.2)\* that belongs to the same network as the IP address of interface A (default=192.168.1.200) and confirm **[d]**.

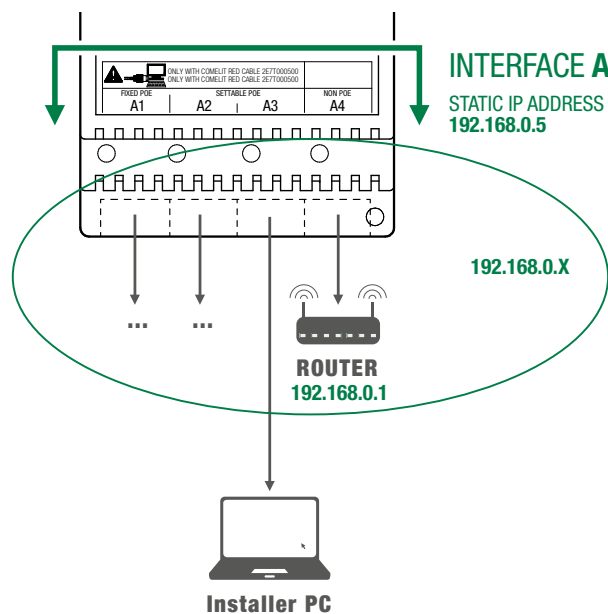
\*the last value must be within the range of 2 to 253 excluding: 200 (assigned to the gateway Art. 1456B) and the values already assigned to other devices connected to the network.



3. Launch the system scan by pressing **Scan System [e]**
  - » the 1456B will appear in the device list **[f]**
4. In **Addressing/ IP address [g]** assign device 1456B a static IP address **[h]** and an **IP netmask [i]** compatible with the system, for example **IP: 192.168.0.5, netmask: 255.255.255.0** (warning: the IP address must **not** already be in use).
5. Enable "Use default gateway" **[l]** ONLY for the interface connected to the router (interface A by default)
6. Set the gateway address **[m]**, for example **192.168.0.1** press **Write page [n]** to save the current settings.



» device 1456B will now be in the same network as the router (**192.168.0.X**)



**i** In the cases of "VIP Network + Internet connection network" systems, take particular care with regard to the network interface settings and do not configure interfaces A and B with the same addresses or similar parameters: each IP address must be unequivocal, the addresses of the interfaces A and B must not belong to the same subnet.

**PERFORM A DHCP SYSTEM SCAN AND ASSIGN A ViP ADDRESS**

Follow the procedure below to perform a system scan in **“DHCP”**, to locate all the devices connected to interfaces A and B:

- an IP address will be automatically assigned to the devices in addressing mode **“Autoip”** (connected to interface B);
- an IP address will be automatically assigned to the devices in addressing mode **“DHCP”** (connected to interface A), if the system is connected to a server with the function active;
- devices with **“Static IP address”** will be identified only if they have a network address that is compatible with that of interface A.

1. From **Options [a] / Local connections [b]** tick **DHCP Enable [c]** and confirm **[d]**.

**During the system scan...**

↑ SYSTEM SCAN IN DHCP

↓ AN IP COMPATIBLE WITH THE SYSTEM WILL BE ASSIGNED TO THE PC E.G. 192.168.0.30

Installer PC

**Options**

Local Connections

Connessione 1456B  
Impianto UTCE

Name: Impianto UTCE

Network interface: Intel(R) PRO/Wireless 2200BG Netw

DHCP enable:  **c**

IP address:  Autoip

Subnet mask:

Default gateway:

Help **Ok** **d** Cancel

2. Launch the system scan by pressing **Scan System [e]**.

» all the devices connected to the system will be displayed in the device list.

3. Select the device 1456 B **[f]**, select **Addressing/ViP address [g]**, assign an unequivocal ViP address to the device **[h]** and press **Write page [i]** to save the current settings.

**VIP Manager [Local, Online]**

**Scan System [e]**

Name	Device type	ViP address	IP address
1456B	1456B	11111112	192.168.0.55
1456G	Third-party module	00123459	192.168.0.65
UTCE	Planux H264	00000028	192.168.0.54
UTCE	Switchboard	00001003	192.168.0.64
UTCE	Smart H264	00000006	192.168.0.56
UTCE	iKall / 316 H264	00000103	192.168.0.55

**1456B**

**Addressing**

ViP address: 11111112 **h**

**Write page [i]**

### 3) Licence activation

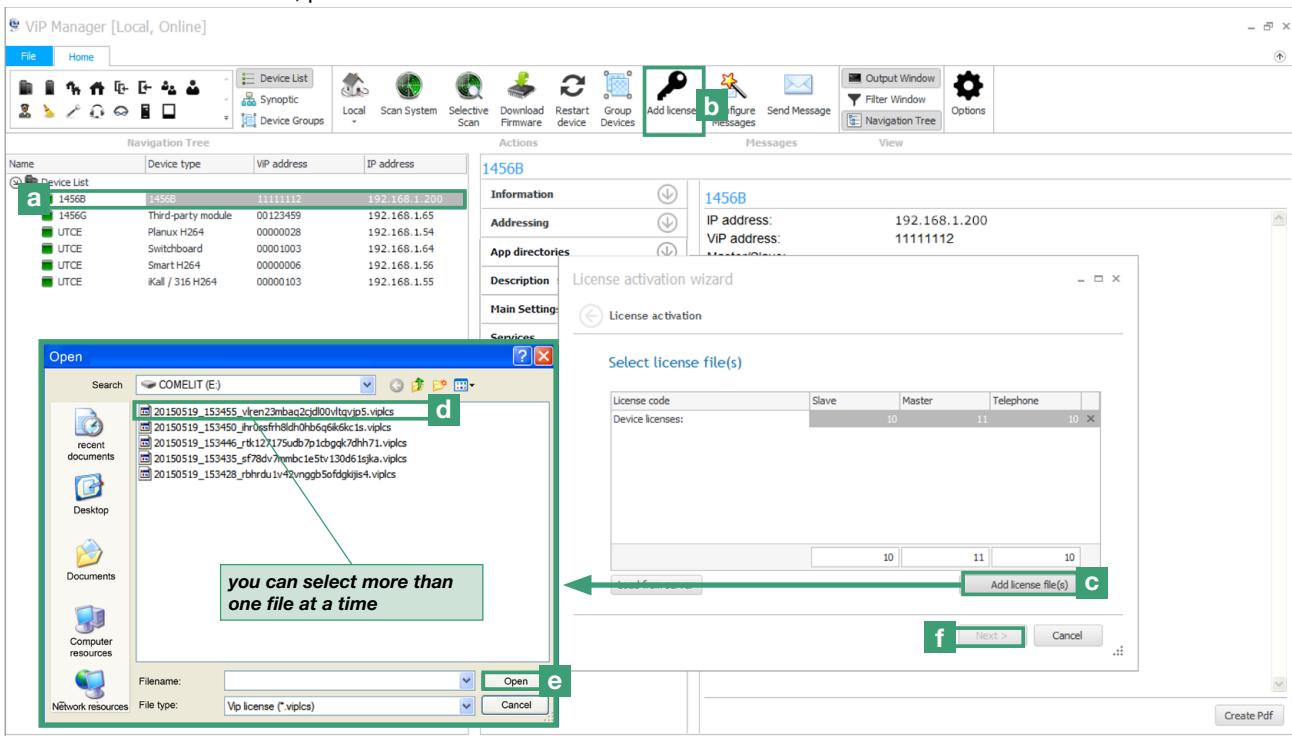
Activation of the licenses for each apartment allows the users of that residential unit to use the special functions provided by the device 1456B (see **“LICENSES AVAILABLE FOR PURCHASE”** for further information about licenses):

- remotely answer an audio/video call from an external unit using a smartphone or tablet (master and slave license);
- answer an audio call from a GSM or landline telephone (all licenses);
- perform an audio telephone backup of an unreachable device (master and slave license);
- the possibility to dispense with a master internal unit (master license).

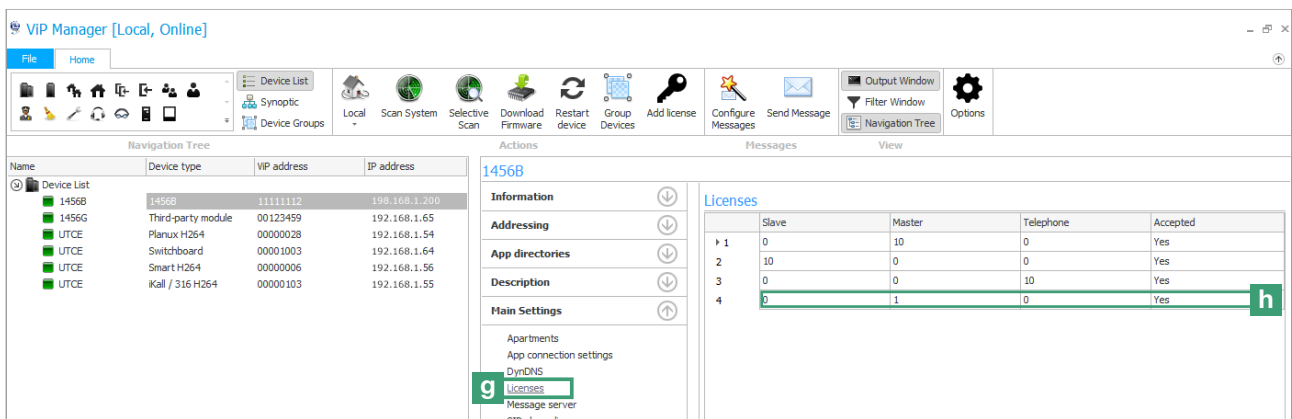
✓ **An active internet connection is required to complete the license activation procedure.**

✓ **A license is needed for each apartment that wishes to make use of the functions described above.**

1. Select device 1456B [a].
2. Press **Add license** [b].
3. Press **Add license file/s** [c].
4. Look for license files with the extension **.viplcs** [d] on the USB storage device (if supplied at time of purchase) or from the folder where it was saved **when purchased and confirm by pressing Open** [e].
  - » a new line with the newly installed licenses will appear in the **license activation wizard** window.
5. Repeat steps 3 and 4 to install other licences.
6. Press **Next** [f],
7. Enter a valid email address, press **Next** and confirm.



» In **Main Settings/Licenses** [g] you can view all the licenses installed [h].

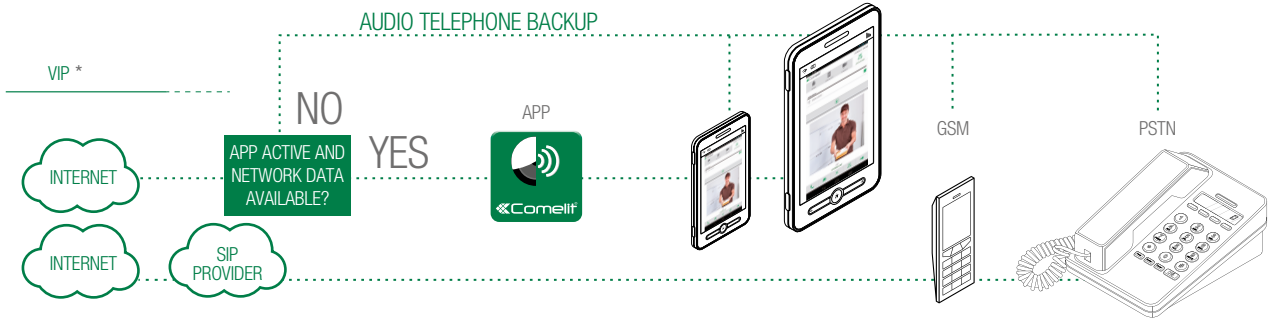


## LICENSES AVAILABLE FOR PURCHASE

### MASTER LICENSE:

- Master door entry monitor not required (already integrated in the 1456B)
- Up to 15 slaves devices can be added for each apartment, including: Smartphone / Tablet + Comelit App, PSTN / GSM Telephone, Door entry phone (configured as Slave)

#### Example apartment with Master license:

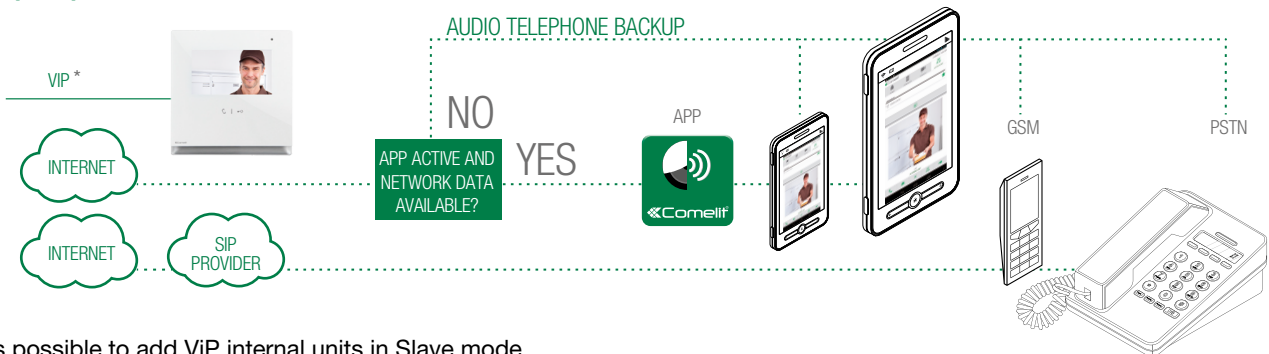


\* it is possible to add ViP internal units in Slave mode

### SLAVE LICENSE:

- A master door entry monitor is required
- Up to 15 slaves devices can be added for each apartment, including: Smartphone / Tablet + Comelit App, PSTN / GSM Telephone, additional door entry phones (configured as Slave)

#### Example apartment with Slave license:

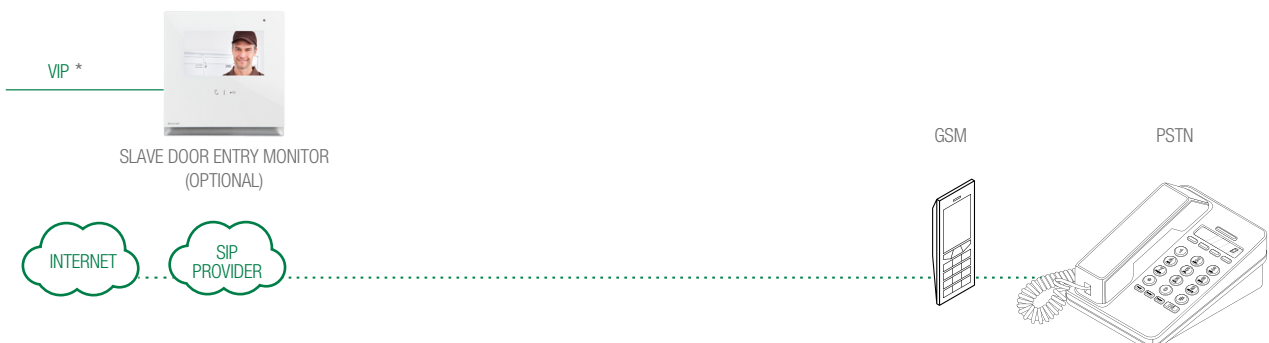


\* it is possible to add ViP internal units in Slave mode

### TELEPHONE LICENSE:

- Master door entry monitor not required (already integrated in the 1456B)
- Up to 15 slaves devices can be added for each apartment, including: PSTN / GSM Telephone, Door entry phone (configured as Slave)

#### Example apartment with Telephone license:



\* it is possible to add ViP internal units in Slave mode

## 4) DynDNS configuration for remote connection

The DynDNS address (“**Dynamic DNS**”) allows a DNS name to be permanently associated with the IP address of the same host, even if that address subsequently changes.

A DynDNS must be registered in order to make the 1456B accessible from a remote web page and to allow operation of the Big App application.

✓ **An active internet connection is required to complete the license activation procedure.**

1. Select article 1456B and select **Main Settings/DynDNS [a]**.
2. Select **ComelitDNS [b]** in order to use the free ComelitDNS service.
3. Press **Register CDNS [c]** to register a ComelitDNS hostname.
4. Complete the registration panel (**NB:** make a note of the data entered or copy and paste them directly into the configuration page) and press **Write page [e]** to complete the registration.
5. Enter the "hostname", "user name" and "password" in the "**DynDNS settings**" screen of the ViP Manager software **[d]**.
6. Press **Write page [e]** to confirm the current settings.

The screenshot displays the ViP Manager software interface. On the left, a navigation tree shows a list of devices, with '1456B' selected. The main panel shows the 'Main Settings' for '1456B', with the 'DynDNS' option highlighted (labeled 'a'). The 'DynDNS settings' panel is visible, showing the 'Comelit DNS' provider selected (labeled 'b'). The 'Hostname' field is set to 'nome\_host4' and the 'Email address' field is set to '@comelit.it' (labeled 'd'). The 'Register CDNS' button is highlighted (labeled 'c'). A callout box shows the 'Comelit DNS' registration form with fields for 'Hostname', 'Email address', 'Password', and 'Confirm password'. A warning box indicates that the complete host name should be written, such as 'nome\_host3.comelitdns.com'. The 'Write page' button is highlighted (labeled 'e').

## 5) Port Forwarding setting for remote connection

**Port forwarding** is the operation that allows the transfer of data from one device to another via a specific communication port. This procedure enables an external user (mobile phone) to access a device on a local network (1456B).

The procedure for opening router ports for device 1456B is required in order to allow remote access to the system via a web page (port TCP 8080) and via an App (port TCP 64100\*, port UDP 64100\*) or via Vip Manager (port TCP 64199).

\* The 64100 port is not available for a number of Internet providers, in this case we suggest to use the following ports 25, 80, 110, 143 or to contact the relative Internet provider.

✓ With the PC still connected by Ethernet cable to article 1456B.

1. Access the browser and enter the IP address of the router in the navigation bar, for example: **192.168.1.1**



2. Log in by entering the username and password (these can be found in the router user manual).

**i** The port configuration method may differ according to the brand and type of router used

3. Search for the sections "Port Opening" or "Apps and games" or "Port Forwarding" (if not displayed on the main menu, search for them in Advanced settings) and add the ports you wish to configure.

4. Fill in the configuration panel (see example in the figure below):

- Enter a name.
- Select the desired protocol (**TCP** for the port 8080, **TCP/UDP** for port 64100).
- Enter the desired value for the external port (for example: 8080 / 64100), enter the same value in Start and in End if you wish to open a single port.
- For the internal port, enter the desired value (8080 / 64100); enter the same value in Start and End fields to open a single port.
- Enter the IP address of the ViP gateway, for example (default= **192.168.1.200**).
- Confirm.

5. Repeat the procedure for each port you wish to open.

**Ports - Custom Services**

Apply Cancel

Service Name: App

Service Type: TCP/UDP

External Starting Port: 64100 (1-65535)

External Ending Port: 64100 (1-65535)

Use the same port range for Internal port

Internal Starting Port: 64100 (1-65535)

Internal Ending Port: 64100

Internal IP address: 192 . 168 . 1 . 200



## 6) SIP settings

The SIP settings configuration procedure is only to be used when you wish to channel a door entry phone communication to a SIP digital telephone line (PSTN/GSM).

It is possible to purchase up to 15 SIP phone lines to be shared between all the apartments. Each phone line is a communication channel: when a call is received from an external unit to landline or mobile phone, the first available SIP line is used.

**i** Purchase the desired number of SIP phone lines (max 15) from a SIP services provider: each phone line is a valid account on the SIP server used to make telephone calls; the user settings and password are to be entered in the "SIP phone lines" screen.

1. Select the device 1456B and select **Main Settings/SIP settings [a]**.
2. Enter the IP address/hostname of the SIP service provider (for example: sip.messagenet.it) and the UDP port of the server supplied by the service provider (for example: 5061) **[b]**.
3. Leave the parameter "**Codec preference**"**[c]** ( for audio encoding/decoding) on the default setting: PCMA/PCMU.

**i** **US users only, select the codec PCMU.** PCMU

4. Press **Write page [d]** to save the current settings.

The screenshot shows the VIP Manager software interface. On the left, the 'Navigation Tree' lists various devices, with '1456B' selected. The main panel displays settings for device '1456B', including 'Main Settings' and 'SIP settings'. The 'SIP settings' panel is active, showing fields for 'SIP Server IP/Hostname', 'SIP Server port' (set to 5061), 'DTMF open relay 1', 'DTMF open relay 2', 'DTMF open relay 3', 'Codec preference' (set to PCMA PCMU), and 'SIP proxy IP/hostname'. A green box labeled 'a' highlights the 'SIP settings' menu item in the navigation tree. A green box labeled 'b' highlights the 'SIP Server IP/Hostname' and 'SIP Server port' fields. A green box labeled 'c' highlights the 'Codec preference' dropdown menu. A green box labeled 'd' highlights the 'Write page' button at the bottom right of the interface.

# **DTMF relay opening 1/2/3:** sequence of keys to press (minimum 3, maximum 6) to send a command to activate the relay from a telephone (the default values can be changed)

\* **Proxy SIP address (secondary SIP server):** normally not necessary, can be left blank.

## 7) SIP phone lines configuration

Access to the SIP lines is controlled by the username and password supplied by the SIP services provider when the line is purchased. Some providers also provide a User ID (which can be variously designated "User authentication", "user auth" or "user ID". The procedure for phone lines configuration is described below.

1. Select the device 1456B and select **Main Settings/SIP phone lines [a]**.
2. For each SIP phone line purchased, enter the respective username and password **[b]**.
3. For each SIP phone line purchased, enter the **user ID [c]** only if this has been provided by the SIP services provider, otherwise leave the field blank.
4. Press **Write page [d]** to save the current settings.

The screenshot shows the VIP Manager interface for device 1456B. The left sidebar shows a navigation tree with 'SIP phone lines' selected (labeled 'a'). The main content area shows the 'SIP phone lines' configuration table (labeled 'b'). The table has columns for 'Username', 'Password', and 'User ID' (labeled 'c'). A 'Write page' button is visible at the bottom right (labeled 'd').

**If the username, the password and the user ID supplied by the SIP services provider are valid for more than one SIP phone line, re-enter the username, password and user ID in the subsequent rows for all the phone lines purchased.**  
**For example: if 5 SIP phone lines have been purchased for which you have 1 username, 1 password and 1 user ID, enter the same credentials in each of the first 5 rows.**



**A maximum of 15 SIP phone lines may be enabled.**

**The lines are shared by all the system users connected to the device 1456B and are managed according to the rule "First come, first served".**

## 8) Apartments configuration

In the apartments configuration screen, each apartment can be assigned a license, a ViP address (unequivocal), a description to allow easy identification of the apartment and the user, an email address and a directory.

✓ **An apartment can be enabled for each available license.**

1. Select device 1456B and select **Main Settings/DynDNS [a]**.

2. Configure the individual apartments (max 200) **[b]**:

- **Enabling:** enable/disable the license for the apartment by selecting **Enabled/Disabled**.
- **License type:** assign the type of license purchased for the apartment, choosing between **Slave/Master/Telephone**.
- **ViP address:** enter an unequivocal ViP address to identify the apartment.
- **Description:** enter a description to unequivocally identify the apartment.
- **Mail:** enter an email address associated with the apartment.
- **Directories:** from the pull-down menus, select the directory you wish to associate with the apartment (to create/edit a directory, see **“10) App Directories Configuration”**)

3. Press **Write page [c]** to save the current settings.

The screenshot shows the VIP Manager software interface. The main settings panel for device 1456B is visible, with the 'Apartments' section highlighted in green and labeled 'a'. The 'Apartments' table is also highlighted in green and labeled 'b'. The table has columns for Enable, License type, ViP address, Description, Mail, and Directories. The first row is highlighted in green.

Enable	License type	ViP address	Description	Mail	Directories
1	Enabled	Master	00000003	John Smith	1
2	Disabled	-			Default
3	Disabled	-			Default
4	Disabled	-			Default
5	Disabled	-			Default
6	Disabled	-			Default
7	Disabled	-			Default
8	Disabled	-			Default
9	Disabled	-			Default
10	Disabled	-			Default
11	Disabled	-			Default
12	Disabled	-			Default
13	Disabled	-			Default
14	Disabled	-			Default
15	Disabled	-			Default
16	Disabled	-			Default
17	Disabled	-			Default
18	Disabled	-			Default
19	Disabled	-			Default
20	Disabled	-			Default
21	Disabled	-			Default
22	Disabled	-			Default

## 9) Users configuration (devices)

In this page you can configure the slave devices that can be activated for each apartment (max. 15) Each device is identified by its slave number. Each device must be assigned a type (internal unit, app or telephone), a description, the phone number (in the case of a telephone/mobile phone).

1. Select device 1456B and select **Main Settings/Users [a]**.
2. Select the apartment for which you wish to configure the users **[b]**
3. Configure the individual devices (max 15 per apartment) **[c]**:
  - **Enabling:** enable/disable the device for the apartment by selecting **Enabled/Disabled**.
  - **Device type:** assign the type of device choosing between:
    - Internal unit:** Comelit ViP internal unit;
    - App:** Comelit App for Android or Apple devices (consult the relative manual for further details);
    - Telephone:** virtual ViP device controlled by the 1456B and used to make phone calls to a landline or mobile phone.
  - **Description:** Description: enter a description to unequivocally identify the device.
  - **Phone number:** if you are configuring a telephone, enter the phone number of the device.
  - **Backup:** enable/disable the backup line to configure the current device as a backup unit to which failed calls to the device specified in the adjacent column ("Backup of") are to be forwarded.
  - **Backup of:** specify the device to be backed up by selecting the corresponding slave device.  
**Example backup:** the slave 3 phone number (John Phone) is enabled as the backup unit of the App slave 1 (John App) installed on the same device --> If the App "John App" cannot be reached, after a few seconds the call will be redirected to the phone number "John Phone".
  - **Mail:** enter the email address of the user for whom you wish enable use of the App.
- 4 Press **Write page [d]** to save the current settings.

The screenshot shows the 'VIP Manager' interface for device 1456B. The 'Users' table is as follows:

#	Enable	Device type	Description	Phone number	Backup	Backup of	Mail
1	Enabled	App	John App		Disabled	-	
2	Enabled	App	App Mary		Disabled	-	arrdvtfb@co...
3	Enabled	Phone	John Phone		Enabled	1	j.smith@co...
4	Enabled	Internal unit	PI Ingresso		Disabled	-	
5	Disabled	-			Disabled	-	
6	Disabled	-			Disabled	-	
7	Disabled	-			Disabled	-	
8	Disabled	-			Disabled	-	
9	Disabled	-			Disabled	-	
10	Disabled	-			Disabled	-	
11	Disabled	-			Disabled	-	
12	Disabled	-			Disabled	-	
13	Disabled	-			Disabled	-	
14	Disabled	-			Disabled	-	
15	Disabled	-			Disabled	-	

Annotations in the screenshot: 'a' points to the 'Users' tab in the left sidebar; 'b' points to the 'Apartment' dropdown menu; 'c' points to the 'Users' table; 'd' points to the 'Write page' button at the bottom right.

### # Slave ID of the device



**Each apartment supports 15 devices, and is assigned a device ID (slave number) that identifies the device within the apartment. The device ID assigned in this page must correspond to that assigned to the same device in the page "Addressing/ViP address".**



**It is advisable to assign the slave numbers 1-2-3 to devices that can receive the video signal( internal units/ applications), so that during a call they can receive the video signal directly, without the user having to press a video request button.**

## 10) App Directories Configuration

Up to 200 directories can be registered in the section **"App Directories"**.

Each directory can contain different types of entry: Intercoms (addresses of apartments or individual devices), Switchboards (CPS), Cameras, External Units, Actuators, Lock releases, Lock release actions, Additional Actuators.

Each directory can be associated with an apartment (see: **"3) Apartments configuration"**)

### Directory creation

1. Select the device 1456B and select **App Directories/Directories list [a]**.
2. Complete the description field to add a new directory **[b]**
3. From the pull-down menu, choose **Deny/Allow [c]** to **disable/enable** editing of the copy of the directory saved in the applications.
4. Press **Write page [d]** to save the current settings.

Name	Device type	VIP address	IP address
1456B	1456B	11111112	192.168.1.200
1456G	Third-party module	00123459	192.168.1.65
UTCE	Planux H264	00000028	192.168.1.54
UTCE	Switchboard	00001003	192.168.1.64
UTCE	Smart H264	00000006	192.168.1.56
UTCE	IKall / 316 H264	00000103	192.168.1.55

Description	Allow edit
Directory	Deny
Directory 1	Deny
Directory 2	Deny

### Directory development

1. Select the device 1456B and select **App Directories/Directory entries [e]**.
2. From the pull-down menu, select the directory you wish to edit **[f]**.
3. Use the scroll bar **[g]** to view all the sections of the directory (Intercoms, Switchboards (CPS), Cameras, External Units, Actuators, Lock releases, Lock release actions, Additional Actuators). Complete the required fields to add an entry the directory **[h]**.
4. Press **Write page [i]** to save the current settings.

Name	Device type	VIP address	IP address
1456B	1456B	11111112	192.168.1.200
1456G	Third-party module	00123459	192.168.1.65
UTCE	Planux H264	00000028	192.168.1.54
UTCE	Switchboard	00001003	192.168.1.64
UTCE	Smart H264	00000006	192.168.1.56
UTCE	IKall / 316 H264	00000103	192.168.1.55

Description	VIP address	Master/Slave	Emergency call
1 Directory 1		Whole apartment	Disable

## Intercoms

- Configure the call to an entire apartment or to an individual device within the apartment, by completing the following fields:

<b>Description</b>	Enter the description.
<b>ViP address</b>	Enter the ViP address
<b>Master/Slave</b>	From the pull-down menu, choose whether to configure a call to the entire apartment or only to the master monitor or to a slave monitor, as required.
<b>Emergency call</b>	From the pull-down menu, choose whether to <b>enable or disable</b> a priority emergency call (on the App the contact will be identified by a red cross) <b>N.B. only 1 emergency contact can be set</b>

## Switchboards (Cps)

- Configure the call to a switchboard by completing the following fields:

<b>Description</b>	Enter the description
<b>ViP address</b>	Enter the ViP address
<b>Emergency call</b>	From the pull-down menu, choose whether to <b>enable or disable</b> a priority emergency call (on the App the contact will be identified by a red cross) <b>N.B. only 1 emergency contact can be set</b>

## Cameras

- Configure the self-ignition of a camera by completing the following fields:

<b>Description</b>	Enter the description
<b>ViP address</b>	Enter the ViP address
<b>Camera</b>	Select the desired camera from the pull-down menu.

## External Units

- Configure the activation of the relay of an external unit completing the following fields:

<b>Description</b>	Enter the description
<b>ViP address</b>	Enter the ViP address

## Actuators

- Configure the activation of an actuator (Generic actuator, Shutter, Door, Lighting..) by completing the following fields:

<b>Description</b>	Enter the description
<b>ViP address</b>	Enter the ViP address
<b>Expansion index</b>	Select the "actuator module" or expansion you wish to control from the pull-down menu (from 1 to 10)
<b>Output index</b>	From the pull-down menu, select the number of the relay (1 or 2) or the expansion number (from 1 to 10) that you wish to control

## Lock-release

- Configure the activation of the lock-release relay by completing the following fields:

<b>Description</b>	Enter the description
<b>ViP address</b>	Enter the ViP address
<b>Output index</b>	Select the number of the output you wish to control from the pull-down menu (from 1 to 3)

## Lock-release Actions

- Configure the **Lock-release button**, by completing the following fields:

<b>Action</b>	Select from the pull-down menu: <b>disabled:</b> to disable the button <b>peer:</b> to control the relay of the external unit in communication <b>fixed-addr:</b> to control a specific relay
<b>ViP address</b>	Enter the ViP address
<b>Output index</b>	Select the number of the output you wish to control from the pull-down menu (from 1 to 3)

## Additional Actuators

- Configure the **Additional Actuator button** to control an extra action during a call through the activation of an additional relay, completing the following fields:

<b>Enabled</b>	From the pull-down menu, select enable/disable the Additional Actuator button.
<b>ViP address</b>	Enter the ViP address
<b>Expansion index</b>	From the pull-down menu, select the "actuator module" or expansion you wish to control (from 1 to 10)
<b>Output index</b>	From the pull-down menu, select the number of the relay (1 or 2) or the expansion number (from 1 to 10) that you wish to control

## 11) Message server configuration

The following procedure describes how to specify on the art. 1456B the IP or ViP address of the art. 1952 device to be used as a message server (if present)

1. Select device 1456B and select **Main Settings/Message server [a]**.
2. From the pull-down menu [b] select **ViP address or IP address** and enter the address of the CPS device that is to be used as a message server.
3. Press **Write page [c]** to save the current settings.

The screenshot shows the VIP Manager interface for device 1456B. The 'Message server' field is highlighted with a green box and labeled 'a'. The 'Message server' dropdown menu is open, showing 'Disabled' selected, with a green box and label 'b' next to it. The 'Write page' button is highlighted with a green box and label 'c'.

Name	Device type	ViP address	IP address
1456B	1456B	11111112	192.168.1.200
1456G	Third-party module	00123459	192.168.1.65
UTCE	Planux H264	00000028	192.168.1.54
UTCE	Switchboard	00001003	192.168.1.64
UTCE	Smart H264	00000006	192.168.1.56
UTCE	IKall / 316 H264	00000103	192.168.1.55

## 12) Enabling Remote configuration

The following procedure describes how to enable remote configuration via ViP Manager

1. Open port 64199 on the router for the address of device 1456B, as shown in the following example:

Service Name	remote
Service Type	TCP
External Starting Port	64199 (1-65535)
External Ending Port	64199 (1-65535)
<input checked="" type="checkbox"/> Use the same port range for Internal port	
Internal Starting Port	64199 (1-65535)
Internal Ending Port	64199
Internal IP address	192 . 168 . 1 . 200

2. In ViP Manager, select device 1456B and select **Services/Remote configuration** [a]
3. Tick **“Remote connection enable”** [b]
4. Enter a **password** [c]
5. Press **Write page** [d] to save the current settings.

The screenshot shows the ViP Manager interface for device 1456B. The 'Services' section is expanded to show 'Remote configuration'. The 'Remote connection enable' checkbox is checked, and the password field contains '000000'. The 'Write page' button is highlighted in the bottom right corner.

- » It will now be possible to remotely connect to the system from the Remote Connections page by entering the public **IP address** [e] of the router in the system or the **Hostname** [e] assigned to the device 1456B (see: [“4\) DynDNS configuration for remote connection”](#))

The screenshot shows the 'Remote Connections' dialog box in ViP Manager. The 'IP address/hostname' field is highlighted with a green box and labeled 'e'. The dialog also shows fields for 'Name', 'RCMPT port', 'Message send port', and 'Password'.



# Special configurations

## App connection settings

From the following configuration page you can:

- set personalised parameters for the app connection (for example, if you wish to set a different port for connection of the app or if there is a static public address you wish to use for remote connection).
- change the limit for simultaneous video connections (max. 4).

1. Select the device 1456B and select **Main Settings/App connection settings [a]**.
2. Edit the values you wish to personalise.

### App connection settings

- **Local address:** leave the field empty if you wish to set as the local address the address of interface A, as specified in the page **Addressing/IP address**.
- **Local/remote TCP/UDP port (default 64100):** for some internet service providers, port 64100 is not available: if the ComelitViP Remote App fails to register, try changing the address of the port with one of the following: 25, 80, 110, 143 (open the respective ports on the router, see page 22, and edit the values on the ComelitViP Remote App).
- **Remote address:** leave the field empty if you wish to set as the remote address the hostname registered during configuration of the DynDNS settings. If necessary, you can assign a static public address for remote connection.

### Video connections

- **Maximum number of simultaneous video connections on the App:** 4 (or 3 App and one Master video, or 3 App and one Master 1456).

3. Press **Write page [b]** to save the current settings.

The screenshot shows the 'VIP Manager [Local, Online]' interface. On the left, a 'Device List' table is visible:

Name	Device type	VIP address	IP address
1456B	1456B	11111112	192.168.1.200
1456G	Third-party module	00123459	192.168.1.65
UTCE	Planux H264	00000028	192.168.1.54
UTCE	Switchboard	00001003	192.168.1.64
UTCE	Smart H264	00000006	192.168.1.56
UTCE	iKall / 316 H264	00000103	192.168.1.55

The main configuration area for device 1456B is shown on the right. The 'App connection settings' section includes:

- Local address: 192.168.1.200
- Local TCP port: 64100
- Local UDP port: 64100
- Remote address: nome\_host4.comelitdns.com
- Remote TCP port: 64100
- Remote UDP port: 64100

The 'Video connections' section shows:

- Maximum number of simultaneous video connections on the App: 4

A green callout box points to the 'Remote address' field with the text: "if necessary, you can assign a static public address for remote connection." At the bottom right, a green box with a white letter 'b' highlights the 'Write page' button.

# Connection to the configuration web pages

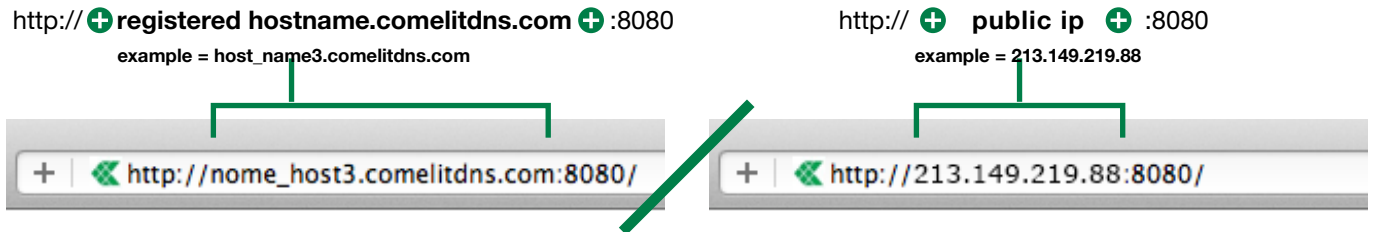


From the web pages you can perform all of the operations available on ViP Manager except license activation.  
The backup and restore function is only available on the web pages.

## 1A) Remote connection

- ✓ it is necessary to perform Dyn DNS configuration (see [“4\) DynDNS configuration for remote connection”](#)) and open port 8080 (see [“5\) Port Forwarding setting for remote connection”](#)) on the router
- ✓ an active internet connection is also required.

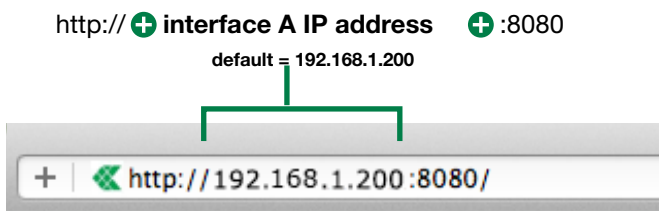
1A. Enter the registered hostname or the public IP address, as in the following examples, and press enter.



## 1B) Local connection

- ✓ With the PC connected via Ethernet cable to interface A of art. 1456Ba and IP address belonging to the same network as interface A.

1B. Enter the IP address of interface A as in the following example, and press enter.



## 2) Login

1. Press **Login [a]**
2. Enter the installer password (default= comelit) and confirm by pressing **Login [b]**



# Backup and restore

The backup function allows you to save the current configuration, which can then be subsequently called up at any using the restore function.

**i** **The backup and restore functions are only available from the configuration web pages (to access the web pages, see [Connection to the configuration web pages](#))**

1. Connect to the web pages of the device (in local or remote) and log in.
2. Access the Backup/Restore section by pressing **Backup/Restore [a]**
3. Press **Make Backup [b]** to create a backup of the current configuration.
  - » A file with the extension **.tar.gz** will appear in the window
  - ▶ Press the file name **[c]** to save the configuration file in the downloads folder on your computer
  - ▶ Press **delete [d]** to delete the configuration file
  - ▶ Press **restore [e]** to restore the configuration file
  - ▶ Press **Choose file [f]** to load a configuration file previously saved on your computer, confirming by pressing **Upload and restore backup [g]**

Comelit 1456B - Backup/Restore

Available Configuration Backups

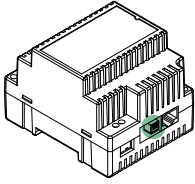
Backup files (max 5) will be saved on the device itself.

BACKUP FILE	DELETE	RESTORE
000001.tar.gz <b>c</b>	Delete <b>d</b>	Restore <b>e</b>

Make Backup **b** Choose file **f** file was selected Upload And Restore Backup **g**

# Reboot with predetermined network settings

The function **reboot with predetermined network settings** allows you restart the device with the default network parameter settings (interface A= 192.168.1.200), while keeping the other settings unchanged.



✓ **With the dip switches in the default positions (OFF).**



1. Switch off the power supply to the device.
2. Set DIP 1 to ON
3. Power on the device.
4. Wait 20 - 40 seconds until the LEDs start flashing slowly and alternately (1 sec red / 1 sec green).

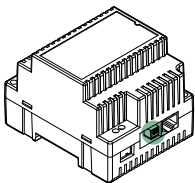


5. Return all the dip switches to OFF.
  - » *The green LED will flash for 5 seconds.*
  - » **The device will start with the default network settings.**

6. At the next restart, the device will recover the **saved** settings.

# Restoring factory settings

*This procedure allows you to restore all the factory parameter settings and to delete all the device configurations.*



✓ **With the dip switches in the default positions (OFF).**



1. Switch off the power supply to the device.
2. Set all the dip switches to ON.
3. Power on the device.
4. Wait 20 - 40 seconds, until the LEDs start flashing rapidly and alternately (0.1 sec red / 0.1 sec green).



5. Return all the dip switches to OFF.
  - » *The red LED will flash for 5 seconds.*
  - » **The device will reset all parameters to the factory settings and restart in the normal way.**



**WARNING:** the full reset procedure also deletes and the licenses installed on the device You can restore the licenses (max. 2 times) using the procedure described in the following paragraph.

# Restoring licenses

The following procedure allows you to restore licenses lost during the full reset procedure:

1. From ViP Manager, look for the device 1456B as described in the ViP Manager addressing procedure. (see: [2\) ViP Manager addressing](#))
2. Select the device 1456B [a].
3. Press "Add license" from the main menu [b].
4. Press "Load from server" to restore previously activated licenses [c].
5. Press **Next** [d].
6. Enter a valid email address, press **Next** and confirm.



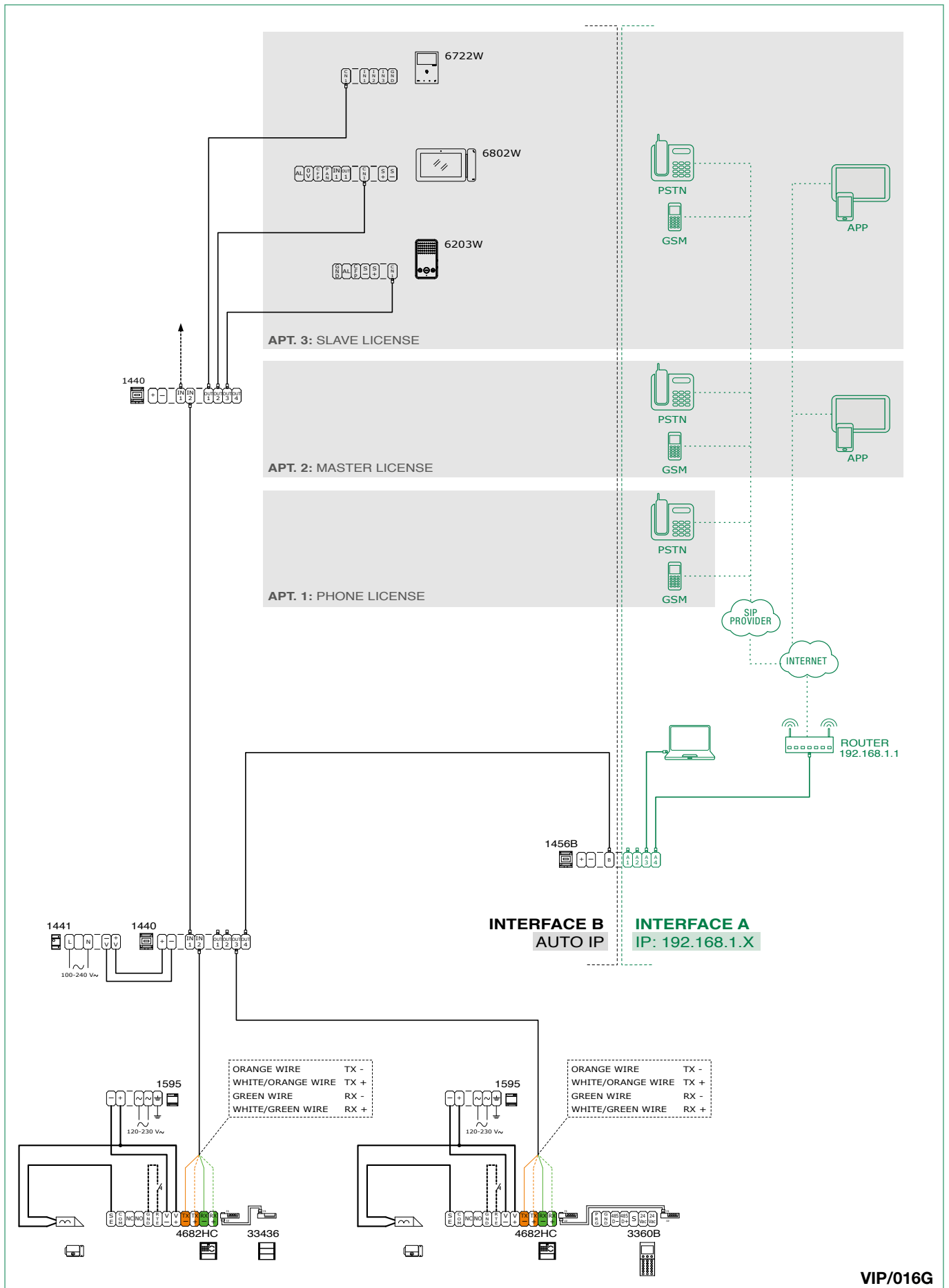
**Licenses can be restored a maximum of two times only. For additional license restore operations, contact Comelit technical assistance.**

The screenshot displays the ViP Manager [Local, Online] interface. The main window is divided into several sections:

- Navigation Tree:** A table listing devices. The device '1456B' is selected and highlighted with a green box labeled 'a'.
- Actions:** A toolbar containing various icons. The 'Add license' icon (a key) is highlighted with a green box labeled 'b'.
- Information Panel:** Shows details for the selected device '1456B', including IP address (172.25.160.1), VIP address (11111112), and Master/Slave status.
- License activation wizard:** A dialog box titled 'License activation wizard' with the subtitle 'License activation'. It contains a section 'Select license file(s)' with a table for license codes and a 'Load from server' button highlighted with a green box labeled 'c'. At the bottom, there are 'Next >' and 'Cancel' buttons, with 'Next >' highlighted by a green box labeled 'd'.

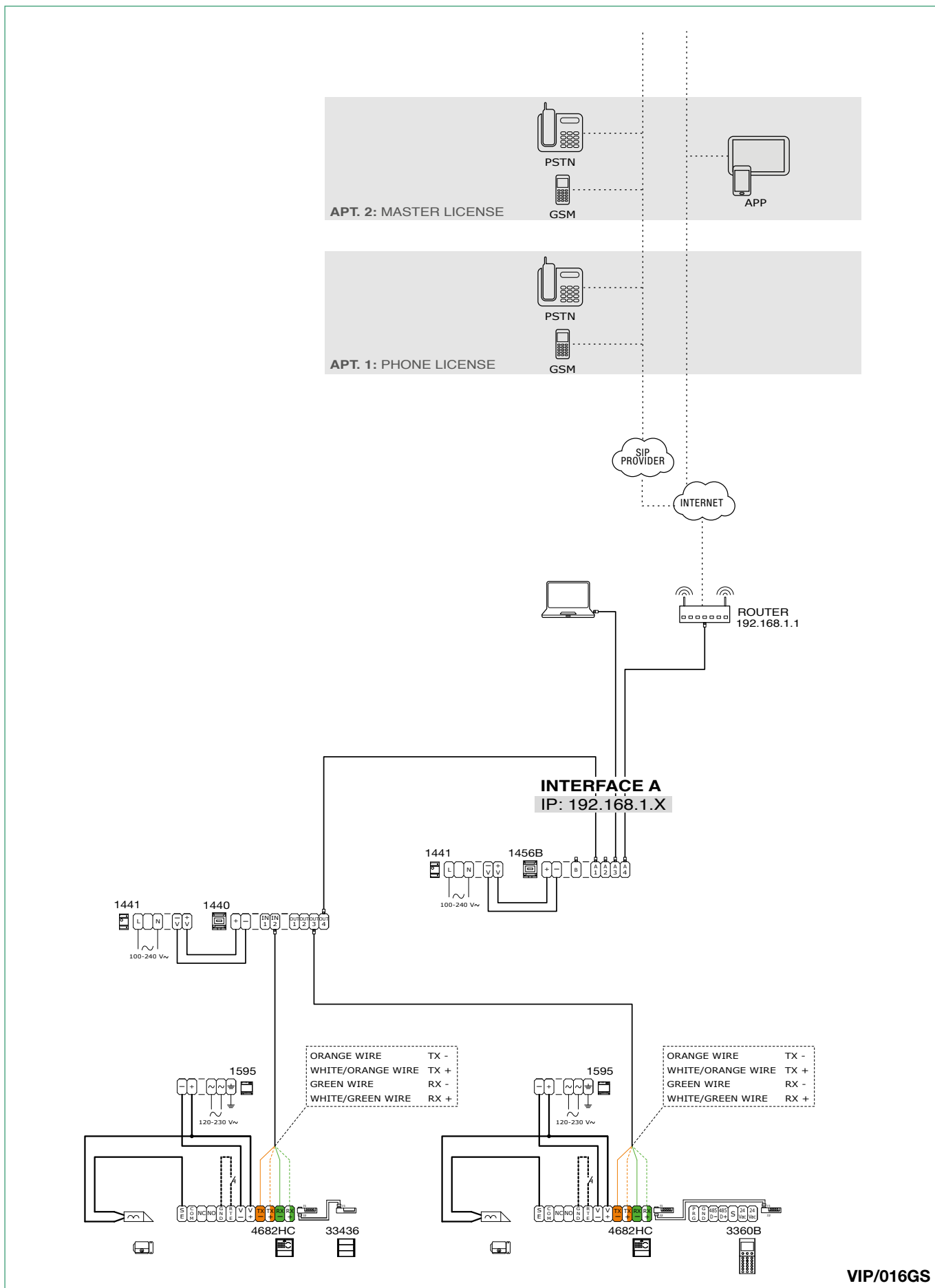
# Wiring diagrams

## system with ViP network + Internet connection network



VIP/016G

### System with single network



# Glossary\*

- **Autoip:** *Automatic Private IP Addressing* (known as APIPA or Auto IP), is a method for automatically assigning IP addresses to the devices connected to the network.
- **Dynamic DNS:** *Dynamic DNS* is a technology that allows a DNS name to be permanently associated with the IP address of the same host, even if that address subsequently changes.
- **DHCP:** In telecommunications and information technology, *Dynamic Host Configuration Protocol* (DHCP) is an application layer network protocol that enables the devices or terminals of a local network to automatically receive on each request to an IP network i.e. the internet) the necessary IP configuration to establish a connection and operate on a wider network based on Internet Protocol, i.e. to interact with all the other subnets, exchanging data, provided that they are also integrated in the same way with the IP protocol.
- **Gateway:** a *gateway* is a network device that operates at network level and above of the ISO/OSI model. It's main function is to transport network data packets outside a local network (LAN) Gateway is a generic term for a service that sends data packets outside of the network; the hardware device that fulfils this task is usually a router. Simpler networks have just one gateway that sends all outbound traffic to the Internet network. More complex networks have several subnets, each of which refers to a gateway which routes data traffic to other subnets or redirects it to other gateways.
- **Dynamic IP address:** dynamic addresses are used to identify non-permanent devices in a LAN. A server in the LAN automatically dynamically assigns the address, selecting it a random from a preset range. You can select the range of addresses in accordance with the number of users by setting the netmask, i.e. by telling the DHCP server how many address bits can be assigned dynamically to each single client that accesses it. For example, if the netmask has the value 255.255.255.0 (where each block of numbers separated by a point denotes a group of 8 bits), only the last 8 bits can be assigned to the hosts.
- **Static IP address:** static addresses are used to identify semi-permanent devices with a permanent IP address. Network servers, printers, etc. typically use this addressing method. Static addressing is generally used in preference to dynamic addressing for non permanent network devices if there is a limited number of hosts in the subnet and/or for security reasons, so that the actions of each host and the relative user can be kept under control.
- **Public IP address:** in telecommunications and information technology, a *public IP address* is an IP address in the address range of the internet network that is unequivocally allocated and is potentially accessible from any other public IP address, and therefore can be used for addressing and routing via IP protocol.
- **POE:** *Power over Ethernet or PoE* (the acronym) is a technique for powering equipment via the same cable as that used for Ethernet connection. It is very useful when there is no convenient electrical power source near the termination or when you wish to reduce the number of elements and wires; for example, an IP phone on a desk can be powered directly via the Ethernet cable in Power over Ethernet, thereby eliminating the need for a power supplier and its cable, making for a simpler, less cluttered installation. For the moment, these techniques are used mainly to power devices that consume only a little power, such as VoIP telephones, access points and webcams.
- **Port forwarding:** in computer networks, port forwarding is the operation that allows the transfer of data from one device to another via a specific communication port. This technique can be used to allow an external user to reach a host with a private IP address (within a LAN) via a port of the corresponding public IP address. This operation requires a router capable of automatic translation of network addresses, or NAT.

## \*Sources

**Dynamic DNS.** (2015, June 8). Wikipedia, The free encyclopedia. [http://it.wikipedia.org/wiki/Dynamic\\_DNS](http://it.wikipedia.org/wiki/Dynamic_DNS)

**Dynamic Host Configuration Protocol.** (2015, June 8). Wikipedia, The free encyclopedia. [http://it.wikipedia.org/wiki/Dynamic\\_Host\\_Configuration\\_Protocol](http://it.wikipedia.org/wiki/Dynamic_Host_Configuration_Protocol)

**Gateway (information technology).** (2015, June 8). Wikipedia, The free encyclopedia. [http://it.wikipedia.org/wiki/Gateway\\_\(informatica\)](http://it.wikipedia.org/wiki/Gateway_(informatica))

**IP Address.** (2015, June 8). Wikipedia, The free encyclopedia. [http://it.wikipedia.org/wiki/Indirizzo\\_IP](http://it.wikipedia.org/wiki/Indirizzo_IP)

**Public IP address** (2015, June 8). Wikipedia, The free encyclopedia. [http://it.wikipedia.org/wiki/Indirizzo\\_IP\\_pubblico](http://it.wikipedia.org/wiki/Indirizzo_IP_pubblico)

**Power over Ethernet** (2015, June 8). Wikipedia, The free encyclopedia. [http://it.wikipedia.org/wiki/Power\\_over\\_Ethernet](http://it.wikipedia.org/wiki/Power_over_Ethernet)

**Port forwarding.** (2015, June 8). Wikipedia, The free encyclopedia. [http://it.wikipedia.org/wiki/Power\\_over\\_Ethernet](http://it.wikipedia.org/wiki/Power_over_Ethernet)

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CERTIFIED MANAGEMENT SYSTEMS



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