

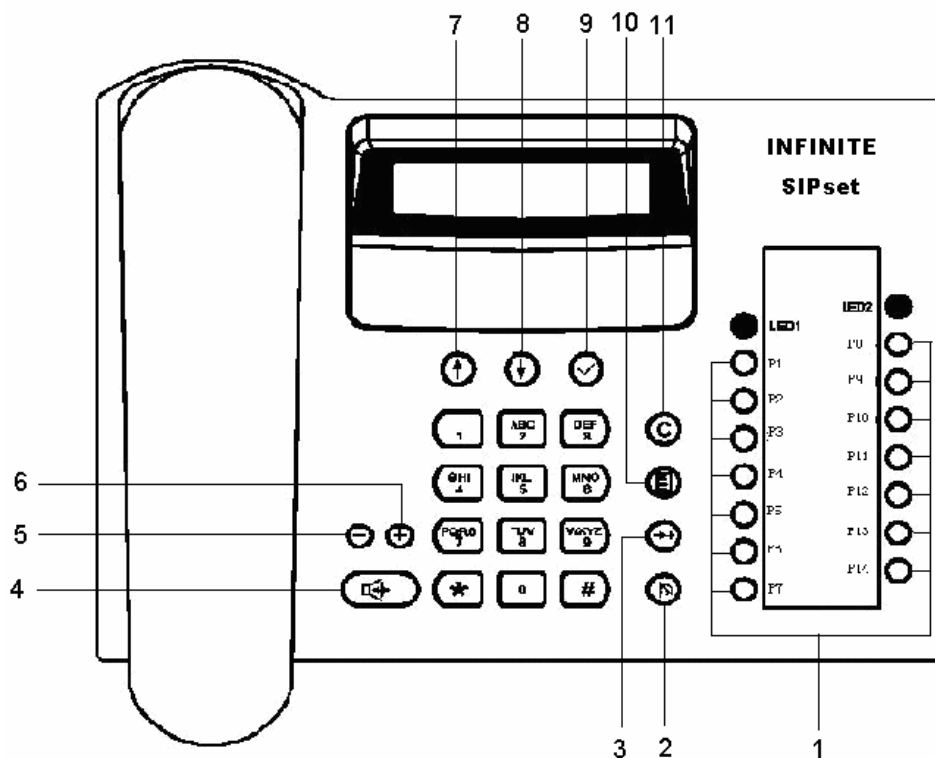
User Manual



SIPset 3115

Version 1.01








Brief overview SIPset 3115



Keys

- 1 Memory/function keys
- 2 Mute key
- 3 Last number redial key
- 4 Handsfree key
- 5 Volume down key
- 6 Volume up key
- 7 Up key
- 8 Down key
- 9 OK key
- 10 Menu key
- 11 Cancel/delete key

Display symbols

-  Missed call
-  Microphone off
-  Do not Disturb (DND)
-  Call forwarding
-  Call waiting
-  Call on hold
-  Alarm
- 12 Input mode "digits"
- ab Input mode "lower case"
- AB Input mode "upper case"

Contents

Safety precautions	5
SIPset 3115 – more than just a telephone.....	6
VoIP — making calls via the Internet.....	6
First steps	7
Check the package contents	7
Setting up the phone.....	7
Connecting PC with Web configurator	7
Running the configuration wizard.....	9
Defining the network connection mode	9
Enter the settings for the network (only for IP static or DHCP network connection modes)	10
Completing the VoIP settings.....	11
Possible error causes	11
Using the phone	12
Navigating the menu	12
Navigating fields.....	14
In selection fields	14
In input fields	14
Entering characters.....	14
Making calls.....	15
Dialing a number.....	15
Enter the phone number via the keypad	15
Dialing with the phonebook.....	16
Dialing with memory keys	16
Dialing from a call record.....	17
Accepting calls.....	17
Functions available when making a telephone call.....	18
Adjust volume.....	18
Mute.....	18
Activating/deactivating handsfree mode	18
Hold/continue	18
Accepting/rejecting call waiting	19
Toggling.....	19
Conference	19
Do not Disturb	19
Configuring the phone via the Web configurator	20
Connecting the PC to the Web configurator.....	20
Setting the Web configurator language	21
Settings Tab.....	21
Network Settings	21
VoIP Settings.....	23
Phone Settings.....	27
Management	31
Adjusting settings via the phone menu	35

Setting the language	35
Setting call forwarding	35
Setting the alarm	35
Setting the date and time	36
Setting ringers	36
Setting the handset/speaker/headset volume	37
Creating and managing phonebook entries	37
Create and manage a list of blocked callers	38
Managing call record entries	39
Programming function keys/memory keys	39
Setting the network	40
Setting up VoIP	41
Restoring the phone's factory default	42
Rebooting the phone	42

Safety precautions

When installing, connecting and operating the telephone, always observe the following precautions:

- ◆ Only use the jacks and leads supplied.
- ◆ Only use the mains adapter supplied.
- ◆ Only connect the connecting lead to the intended socket.
- ◆ Only connect approved accessories.
- ◆ Lay the connecting lead where it will not cause accidents.
- ◆ Position the telephone on a non-slip surface.
- ◆ For your safety and protection, the telephone may not be used in the bath or shower rooms (wet locations). The base station and phone handset are not splash resistant.
- ◆ Never expose the telephone to sources of heat, direct sunlight or other electrical devices.
- ◆ Do not use the phone in environments with a potential explosion hazard, e.g. paint shops.
- ◆ Protect your telephone from moisture, dust, corrosive liquids and vapors.
- ◆ Never open up the telephone yourself.
- ◆ Do not touch the plug contact with pointed or metallic objects.
- ◆ Do not carry the telephone by the leads.
- ◆ If you give your telephone to someone else, make sure you also give them the user guide.

Please note:

Ask your VoIP provider if emergency numbers are supported. The functions described in this user guide may differ or may not be available for each provider/in each country.

SIPset 3115 – more than just a telephone

Your telephone offers you the option to make (cheap) calls via the Internet (VoIP) **without a PC**.

Your phone can do much more besides:

- ◆ You can configure your phone conveniently on your PC. The phone features a Web interface (**Web configurator**) that can be accessed via your PC's Web browser.
- ◆ Save up to 200 phone numbers in the phonebook.
- ◆ You can select frequently used phone numbers at the press of a **single** key.
- ◆ You can view missed calls on your phone.
- ◆ Get your phone to remind you of important appointments.
- ◆ Make sure your phone is always up-to-date. Upload **firmware updates** to your phone from the Internet.

Have fun using your new phone!

VoIP — making calls via the Internet

With VoIP (**V**oice **o**ver **I**nternet **P**rotocol), your calls are not made via a fixed connection as in the telephone network, but rather they are transmitted via the Internet in the form of data packets.

You can take advantage of all the benefits of VoIP with your phone:

- ◆ You can make cost-effective calls in high voice quality with callers on the Internet, the fixed line network or the mobile phone network.
- ◆ VoIP providers will give you personal numbers, with which you can be reached from the Internet, the fixed line network and any mobile phone network.

To be able to use VoIP, you need the following:

- ◆ A broadband Internet connection (e.g. DSL) with flat rate (recommended) or volume-based price.
- ◆ Access to the Internet
 - via a router that will connect your phone to the Internet.
 - or via your phone if you are operating it in router mode.

First steps

Check the package contents

Base	1
Handset	1
Handset Cord	1
Power Adapter	1
Network Cord	1

Setting up the phone

Please note:

- ◆ Use at temperatures up to +40°C.
- ◆ Never expose the phone to direct heat sources, direct sunlight or other electrical devices.
- ◆ Protect your SIPset from moisture, dust, corrosive liquids and vapors.

The phone's feet do not usually leave any marks on surfaces. However, due to the multitude of different varnishes and polishes used on today's furnishings the occurrence of marks on the surfaces cannot be completely ruled out.

Connecting PC with Web configurator

Preconditions:

- ◆ A standard Web browser is installed on the PC, e.g. Internet Explorer version 6.0 or higher, or Firefox version 1.0.4 or higher.
- ◆ Your router is connected to the Internet.

The Web configurator is the Web interface for your phone. It allows you to select the settings for your phone via your PC's Web browser.

You can find a description of the Web configurator's functions from onwards.

To read how to adjust the settings on your phone without a PC, see.

Please note :

Your phone is preconfigured for dynamic assignment of the IP address. In order for your router to "recognize" the phone, dynamic IP address assignment must also be activated on the router, i.e. the router's DHCP server is activated.

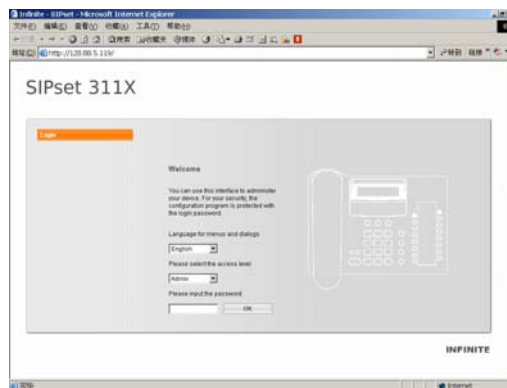
If your network configuration has a fixed address for your router you will also have to assign a fixed address to your phone.

Connect your PC to the phone's Web configurator via the phone's (local) IP address.

- ◆ Establish the telephone's current IP address:
The IP address will appear on the display after booting if **dynamic allocation** is activated for the IP address. The address can change with every boot sequence. How to establish a **fixed** IP address is described here.
- ◆ Launch the Web browser on your PC.
- ◆ Enter http:// and the phone's current IP address (for example: http://192.168.0.3) into the address field of the Web browser.
- ◆ Press the return key.

A connection is established to the phone's Web configurator.

Once you have successfully established the connection, the **Login** Web page will be displayed in the Web browser.



Defining and registering the Web configurator's language

- ◆ Select the language.
You can select the language you want the menus and Web configurator dialogs to be displayed in.
- ◆ Select the access level "**Admin**" in the lower field on the Web page and enter the password "**admin**" to gain access to Web configurator functions.
- ◆ Click on the OK button.

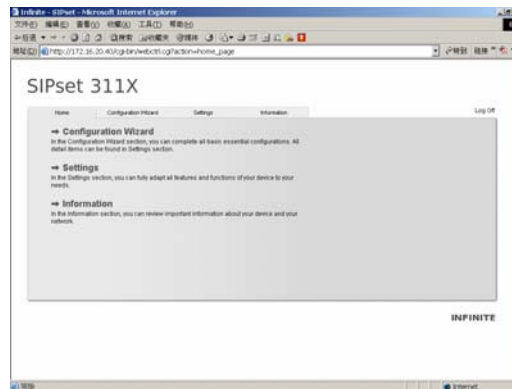
The **Home** tab will open on successful registration.



Defining and registering the Web configurator's language

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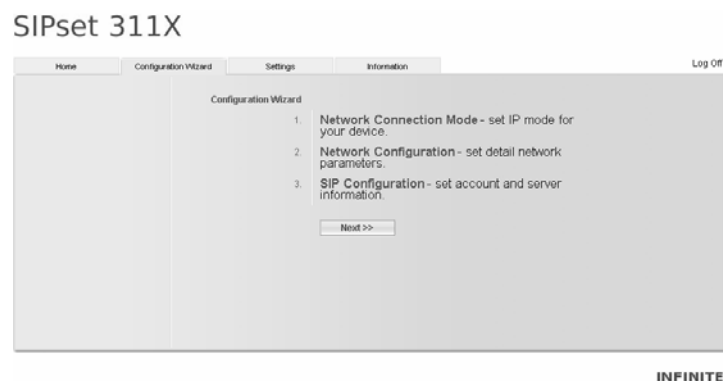
- ◆ Select the access level "**Admin**" in the lower field on the Web page and enter the password "**admin**" to gain access to Web configurator functions.
 - ◆ Click on the OK button.
- The **Home** tab will open on successful registration.



Running the configuration wizard

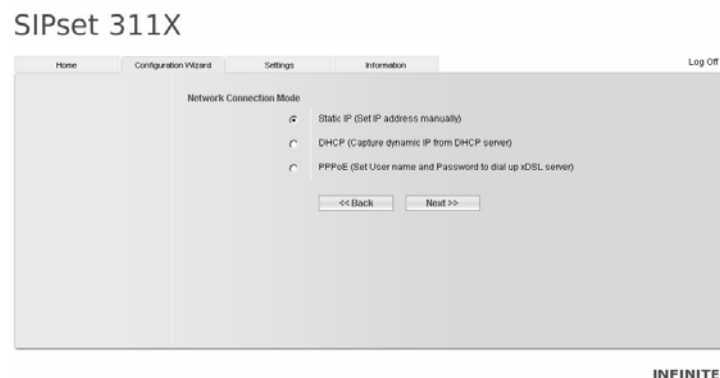
The configuration wizard can help you to adjust network settings and enter the details of your SIP providers quickly and easily.

- Click **Configuration Wizard** to run the configuration wizard.



- Click on the **NEXT>>** button.

Defining the network connection mode



- Click on the appropriate radio button:

DHCP

Your phone is preconfigured for dynamic assignment of the IP address (DHCP). Your phone will automatically acquire all the necessary settings from the router. **This setting is recommended for a simple installation.**

Static IP

It may be necessary in some network configurations to assign a fixed IP address to the phone.

PPPoE

You can set your phone to log on to a PPPoE server.

- Click on the **NEXT>>** button.

Enter the settings for the network

(only for IP static or DHCP network connection modes)

The screenshot shows the 'Static IP Mode' configuration page in the SIPset 311X wizard. The page has a navigation bar with 'Home', 'Configuration Wizard', 'Settings', and 'Information' tabs, and a 'Log Off' link. The main content area contains the following fields and values:

Field	Value
IP Address	172.16.20.40
Subnet Mask	255.255.0.0
Default Gateway	172.23.56.254
Preferred DNS Address	172.23.56.254
Alternate DNS Address	172.23.56.254

At the bottom of the form are two buttons: '<< Back' and 'Next >>'. The 'INFINITE' logo is visible in the bottom right corner.

IP static:

- Enter the IP Address, Subnet Mask, Default Gateway, and Primary and Secondary DNS Address.
- Click on the **NEXT>>** button.
- Click on **OK** button.

The screenshot shows the 'SIP Configuration' page in the SIPset 311X wizard. The page has a navigation bar with 'Home', 'Configuration Wizard', 'Settings', and 'Information' tabs, and a 'Log Off' link. The main content area contains the following fields and values:

Field	Value
Username	111111
Display Name	Production
Authentication Name	111111
Authentication Password	*****
Confirm Password	*****
Domain	
Registrar Server	172.16.25.25
Proxy Server	172.16.25.25
Outbound Proxy	

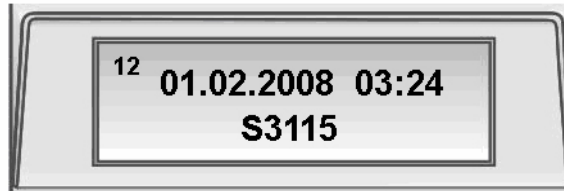
At the bottom of the form are two buttons: '<< Back' and 'OK'. The 'INFINITE' logo is visible in the bottom right corner.

DHCP:

- Enter the Usermane, Dsplay Name, Authentication Name, Authentication Password, Confirm Password, Domain, Registrar Server, Proxy Server, and Outbound Proxy.
- Click on the **NEXT>>** button.
- Click on **OK** button.

Completing the VoIP settings

Your phone will restart (boot sequence) when data input is complete. Once all settings are correct and the phone is able to establish a connection to the VoIP server, the following will appear on the display:



You can now make calls with your phone via the Internet! Callers can reach you via your VoIP number!

Please note :

To ensure that you can always be reached via the Internet, the router must be permanently connected to the Internet.

Possible error causes

If one of the following messages is displayed instead of the internal name after the connection wizard is closed, errors have occurred:

No netw.connection

Register failed

Below you will find possible causes and measures you can take.

No netw.connection

The phone has no connection to the Internet.

- Check the cable connections between the phone and router and between the router and the Internet.
- Check whether the phone is connected to the LAN.
 - It may not have been possible to dynamically assign an IP address to the phone
or
 - You have assigned a static IP address to the phone that has either already been assigned to another LAN subscriber or does not belong to the router's address block.
 - Start the Web configurator with the phone's IP address.
 - If no connection can be established, change the settings on the router (activate DHCP server) or the phone's IP address.

Register failed

- ◆ Your personal data for registering with the VoIP provider may have been entered incompletely or incorrectly.

- ◆ The server address for the VoIP server has not yet been entered, or has been entered incorrectly.

Check the settings and correct them where necessary:

- Start the Web configurator.
- **Settings** → **VoIP Settings** / **Server Settings** tab.
- Correct the settings where necessary.

Using the phone

Navigating the menu

Many of your telephone's functions are accessed using a menu that is organized in several levels. The functions of the main menu and submenus are displayed in lists.

Main menu (first menu level)

To open the main menu:



Press the menu key.

To access a function in the main menu:



Use the up/down keys to scroll to the function, then press the OK button

Submenus

To access a function in the submenu:



Use the up/down keys to scroll to the function, then press the OK button

(If necessary, you can access the next level of the submenu in the same way.)

The function to be set follows the last selection of a submenu. Make a selection or enter data here.

Your current position in the menu is indicated by an inverse bar.

The current setting in selection fields is indicated by the symbol >.

You must press the OK button

to save settings.

Return (without saving) / exit the menu

While you are navigating through the menu or if you are selecting settings without having confirmed them with the OK key

, you can go back one step at a time without changing any settings or leave the menu immediately.



Press the key as often as necessary to reach the desired menu level or to exit the menu (does not apply in alphanumeric input fields).

or



Press this key to exit the menu immediately.

Step-by-step instructions for navigating the menus

Individual steps that you must carry out to navigate the menu appear in abbreviated form in the user guide, e.g.:



The arrow → means:

Scroll to the function using the up/down keys / .

Detailed explanation of the above example:



Press the menu key.



Scroll to **Phone settings** with the down key.



Press the OK key.



Scroll to **Volume** with the down key.



Press the OK key.



Press the up/down key to select **Handset / Speaker / Headset**.



Press the OK key.



Press the up/down key to adjust the volume.






Press the OK key.



If another submenu follows, continue using and in the same way until the desired function is selected.

Navigating fields




In selection fields

- Navigate to the left or right with  . The selected field is marked >.
- Confirm your selection with .





Please note :

- ◆ Press  to cancel editing and skip back one menu level.
- ◆ Press  to cancel editing and exit the menu.

In input fields

- Press  to enter data.
- Confirm the **modify?** query with  and enter the data.
- Confirm with .

Please note :

- ◆ When entering data you can move the cursor to the left with the up key  and to the right with the down key .
- ◆ Press  to delete the next character to the left of the cursor.
- ◆ Press  to cancel editing and exit the menu.


Entering characters

Letters and numbers are entered by pressing the various dialing keys a different number of times. This also applies when entering alphanumeric passwords. Example: "/" = press

the * key 2 times. Characters in "ABC" or "abc" input method.

	0	1	2	3	4	5	6	7	8	9	*	#
1x	.	□	A a	D d	G g	J j	M m	P p	T t	W w	*	#
2x	,	1	B b	E e	H h	K k	N n	Q q	U u	X x	/	@
3x	?	€	C c	F f	I i	L l	O o	R r	V v	Y y	(\
4x	!	£	2	3	4	5	6	S s	8	Z z)	&
5x	0	\$	Ä ä	ëË	Ï ï		Ö ö	7	Ü ü	9	<	§
6x	+	¥	Á á	É é	Í í		Ñ ñ	ß	Ú ú	Ý ý	=	
7x	-	□	À à	È è	Ì ì		Ó ó		Û ù	Ý ý	>	
8x	:		Ã ã	Ê ê	Î î		Ô ô		Ù ú	Æ æ	%	
9x	¿		Ä ä				Õ õ		Ø ø			
10x	i		Ç ç				Ö ö		Å å			
11x	"											
12x	'											
13x	;											
14x	_											

Press # and hold: switches between upper case, lower case and digits during alphanumeric input.

Whenever letters can be entered, (e.g. names in the phonebook) you can switch between various editor modes by pressing and **holding**  (also see table above).

The current editing mode appears in the top left of the display when entering. The display changes between "AB" (upper case), "ab" (lower case) and "12" (digits).

Making calls

Dialing a number

Enter the phone number via the keypad

You can make a call using the phone's handset, handsfree kit or a headset.





Enter the phone number.





Lift handset. The phone number is dialed.

You can delete incorrectly entered numbers during input:

- ◆ Press  **briefly**: deletes the last number on the display
- ◆ Press **and hold** : deletes every number on the display

Please note :

- ◆ Instead of picking up the handset you can also press the handsfree key  or the **[Headset]** function key to make a call using the handsfree function or headset.

In this manual each of these variants is indicated by " Lift handset".

- ◆ You can also pick up the handset (or press the handsfree or **[Headset]** function key) first and then enter the number. In this case the phone will dial the number automatically approximately three seconds after you enter the last digit.

Dialing with the phonebook

The phonebook can store up to 200 phone numbers.

You can enter and manage numbers in the phonebook conveniently with the WEB configurator or via the phone's menu.

To dial a number proceed as follows:

 → **Phone book**  → **View entry** 



Browse through the list with the up/down keys to locate the name you want to call.



Lift handset. The phone number is dialed.

or



Press the OK key.



Select **Dial out** and press the OK key. The phone number is dialed.

Dialing with memory keys

You can assign phone numbers to up to 7 memory keys; you only need to press a memory key once to call the number.

You can program memory keys conveniently with the WEB configurator or via the phone's menu.



Press memory key (P8 to P14) ...



Lift handset. The phone number is dialed.

Dialing from a call record

Press and to enter 'Call records', select the call list (Missed calls /Received calls/Dialed calls) you want. Press or to reach the desired number or name, press and then press 'Dial out' to call.

Viewing call records and dialing phone numbers

Open the call record you wish to view with the redial button , or via the menu:

→ **Call Records** → **Missed calls / Received calls / Dialed calls**

The last (latest) call or dialed phone number is shown on the display.



If necessary, press the down key to select another entry.



Lift handset. The phone number is dialed.

Accepting calls

You can make a call using the phone's handset, handsfree kit or a headset.

You will hear the ringer.



Lift handset. You can speak to the caller.

Please note :

Instead of picking up the handset you can also press the handsfree key or the **[Headset]** function key to make a call using the handsfree function or headset.

Functions available when making a telephone call

Adjust volume

You can change the handset, handsfree or headset volume during a call and the ringer volume whilst the phone is ringing.



Press the volume up or volume down key.

The last value set is saved.

Mute

You can mute the microphone on the handset, handsfree kit or headset during a call; the other party will no longer be able to hear you.



Press the mute key during the phone call.

To turn the microphone back on: Press the mute key once again.

Activating/deactivating handsfree mode

- ◆ Activating via the handset during a call



Press the handsfree key and replace the handset.

- ◆ Switch off the handsfree function during a call to continue speaking with the handset.



Lift handset

Hold/continue

Press the **[Hold]** function key during a call. The call is placed on hold. The other party hears hold music. You can make another call. After the call has ended press the **[Hold]** function key again to reconnect to the first party.

Accepting/rejecting call waiting

You hear the "call waiting" tone during a phone call.

You can accept the call:



You are now connected to the waiting party; the first party hears hold music. After the call has ended press the **[Hold]** function key again to reconnect to the first party.

or

You can reject the call:



The caller hears the engaged tone.

Toggling

You are speaking with one party while another party is on hold. Perhaps because you have accepted a waiting call, or you have put one party on hold to speak to another party.

You can toggle between the two parties by pressing the **[Hold]** function key.

Conference

You are speaking with one party while another party is on hold. Press the **[Conference]** function key to add a caller to a conference call. Press **[Conference]** once again to disengage the conference call. You can switch back and forth between the two parties (toggling).

Do not Disturb

Press the **[DND]** function key if you do not want to receive any calls and do not want the phone to ring. You will still be able to make calls to others.

Press the same key again to deactivate the function.

Configuring the phone via the Web configurator

The Web configurator is the Web interface for your phone. It allows you to select the settings for your phone's base station via your PC's Web browser.

Preconditions:

- ◆ A standard Web browser is installed on the PC, e.g. Internet Explorer version 6.0 or higher, or Firefox version 1.0.4 or higher.
- ◆ The phone and PC are connected with each other via a router.

Please note :

The phone is **not** blocked while you select your settings in the Web configurator. You can make calls with your phone at the same time.

With the Web configurator on your phone you can, for example:

- ◆ Configure your phone access to the local network (IP address, gateway to the Internet).
- ◆ Configure your phone for VoIP.
- ◆ Define the data server for firmware updates and load new firmware onto the phone if necessary.
- ◆ Copy contacts from the address books on your PC into the handset phone-books or back up your handsets' phonebooks on your PC.
- ◆ Obtain information about your phone's status (firmware version, MAC address, etc.).

Connecting the PC to the Web configurator

- Launch the Web browser on your PC. **Precondition:** The settings of an available firewall installed on your PC allow the PC and phone to communicate with each other.
- Enter your phone's IP address, e.g. <http://192.168.0.3.>, into the address field of the web browser and press the Return key.

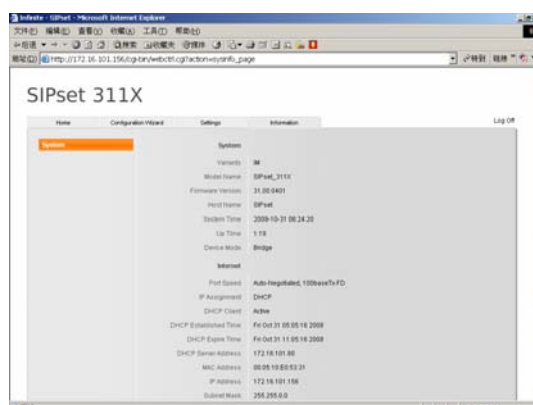
Please note :

- ◆ The IP address will appear on the display after booting if **dynamic allocation** (DHCP) is activated for the IP address. The address can change with every boot sequence.
- ◆ If the IP address is not shown on the display, you can establish it via the phone's menu:



A connection is established to the phone's Web configurator.

Setting the Web configurator language



Configuration Wizard tab

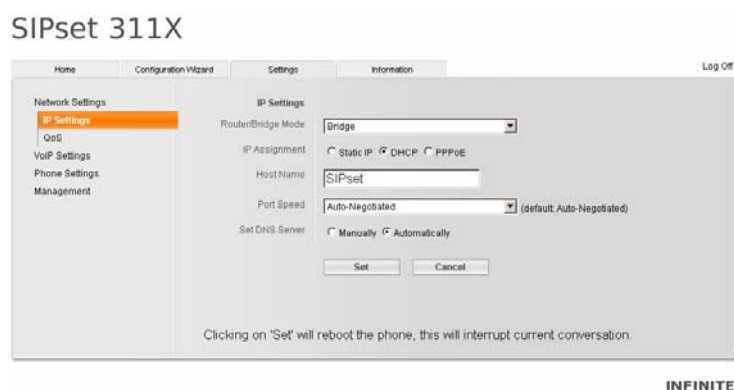
The configuration wizard can help you to adjust network settings and enter the details of your SIP providers quickly and easily.

The configuration wizard is described in section "Running the configuration wizard".

Settings Tab

Network Settings

IP Settings



Setting the Router / Bridge mode

- ◆ Select **Bridge**, if you want to connect your telephone to the Internet via a router.
- ◆ Select **Router** if you want to connect your telephone to a VoIP server via a DSL modem.

IP allocation

Select the necessary settings for operating your phone in your local network and to connect it to the Internet. For more detailed explanations of the individual components/terms, see the glossary.

- ◆ Select **DHCP** if you want your phone to be assigned a dynamic IP address by a DHCP server. No further settings are necessary for the local network.

- ◆ Select **Static IP** if you would like to set up a static local IP address for your phone. A static IP address is, for example, useful if port forwarding or a DMZ is set up on the router for the phone.



IP Address

Enter an IP address for your phone. This IP address allows your phone to be reached by other subscribers in your local network (e.g. PC). The default setting is 172.23.56.253.

Please note the following:

- The IP address must be from the address block for private use that is used in the router. This is generally in the range 192.168.0.1 – 192.168.255.254 with the subnet mask 255.255.255.0. The subnet mask determines that the first three parts of the IP address must be identical for all subscribers in your LAN.
- The static IP address must not belong to the address block (IP pool range) that is reserved for the DHCP server of the router. It must also not be used by another device on the router.

If necessary, check the settings on the router.

Subnet Mask

Enter the subnet mask for your device's IP address. For addresses from the address block 192.168.0.1 – 192.168.255.254, the subnet mask 255.255.255.0 is generally used. This is preconfigured when the phone is supplied.

Default gateway

Enter the IP address for the standard gateway, by means of which the local network is connected with the Internet. This is generally the local (private) IP address for your router (e.g. 192.168.2.1). Your phone requires this information to be able to access the Internet. The default setting is 172.23.56.254.

Primary DNS Address

Enter the IP address for the primary DNS server. DNS (Domain Name System) allows you to assign public IP addresses to symbolic names. The DNS server is required to convert the DNS name into the IP address when a connection is being established to a server. You can specify your router's IP address here. The router forwards phone address requests to its DNS server.

There is no default setting for a DNS server.

Secondary DNS Address (optional)

Enter the IP address for the secondary DNS server that should be used in situations where the preferred DNS server cannot be reached.

- ◆ Select **PPPoE** if you want to connect your phone directly to a VoIP server.



You will receive a user name and a password from your provider. Enter the appropriate data. The DNS server address will be assigned automatically, or you can enter it manually.

QoS



Activating this function can improve voice quality. In VoIP networks, voice quality is affected by various things including the "quality of service" (QoS). If the entire infrastructure demonstrates QoS, voice quality is better (fewer delays, less echoing, less crackling etc.). If, for example, the router does not have QoS, then the voice quality is not as good. Please see the specialist documentation for further information.

VoIP Settings

Advanced Settings



SIP Port Number: The port number of SIP client (UA).

Session Timer: A minimal interval of SIP session. Before the interval passes, UA should send re-INVITE or UPDATE request to other peer to keep the session alive.

Media Port Start: system will select a random port to transmit RTP flow and this item configures the start range

Media Port End: system will select a random port to transmit RTP flow and this item configures the end range

RTCP Port: RTCP port

Transport: using UDP or TCP protocol to transport control protocol data.

SIP Time Interval: Timer T1 value, T1 is an estimate of the round-trip time (RTT), and it defaults to 500 ms.(refer RFC3261 17.1.1.1)

Invite Timeout: Max periods for receiving 180 responses after sending INVITE message.

Ring Back Timeout: Max periods for receiving 200 responses after sending INVITE msg.

Release Timeout: Timer for releasing resource when release a call.

Registration Retry Counts: Register retry counts when register failed.

Registration Retry Interval: REGISTER request send interval when register failed.

Ping Interval: Time interval in secs for getting PING response and request when ping testing.

SIP User Agent Name: User agent name for User-Agent header field

Hipath: implement automatic transfer

Account Settings

The screenshot shows the 'Account Settings' configuration page in the SIPset 311X interface. The page is divided into a left sidebar with navigation options like 'Network Settings', 'VoIP Settings', 'Advanced Settings', 'Service Settings', 'NAT Traversal', 'Security', 'Voice Settings', 'Phone Settings', and 'Management'. The main content area contains several input fields for account configuration: 'Username' (11 characters), 'Display Name' (11 characters), 'Authentication Name' (11 characters), 'Authentication Password' (8 characters), 'Confirm Password' (8 characters), 'MWI User Name', 'MWI Authentication Name', 'MWI Authentication Password', 'MWI Confirm Password', 'MWI Refresh Timeout' (set to 3000, default 3000), 'Network Address ID' (set to #10), and a checkbox for 'Create (Default: disabled)'. At the bottom, there are 'Set' and 'Cancel' buttons, and a note: 'Clicking on 'Set' will interrupt current conversation.'

You need to set up a VoIP account with a VoIP provider for each VoIP phone number.

Enter the configuration data that is necessary for accessing your VoIP provider's SIP service. You will receive this data from the VoIP provider.

Username: A user part of SIP URL, usually it's a SIP account and consists of a continuous digit string with maximum length of 32.

Display Name: An optional element in SIP URL. Max length is 32 characters.

Authentication Name: User name for authentication when receiving 401/407 for SIP request. Max length is 32 characters.

Authentication Password: Password for authentication when receiving 401/407 for SIP request. Max length is 18 characters.

Confirm Password: Confirm for user input password

MWI User Name: User name for send SUBSCRIBE request in MWI application. Max length is 32 characters.

MWI Authentication Name: User name for authentication when receiving 401 for SUBSCRIBE request in MWI application. Max length is 32 characters.

MWI Authentication Password: Password for authentication when receiving 401 for SUBSCRIBE request in MWI application. Max length is 18 characters.

MWI Confirmed Password: Confirm for user input password.

MWI Refresh Timeout: Interval of sending SUBSCRIBE request, which will be Expires header field of SUBSCRIBE request.

P-Asserted: If P-Asserted header field be enable. (P-Asserted – a new SIP header field for private extensions, refer rfc3325).

Server Settings

The screenshot shows the 'Server Settings' configuration page in the SIPset 311X web interface. The page has a navigation menu on the left with options like Network Settings, VoIP Settings, Advanced Settings, Account Settings, Server Settings (highlighted), NAT Traversal, Security, Voice Settings, Phone Settings, and Management. The main content area is titled 'Server Settings' and includes the following fields and options:

- Authentication Expiry Time: 120 seconds (0.45535, default 120)
- Domain: [Empty field]
- Registrar Server: 172.23.56.254
- Registrar Server Port: 5060 (1-65535, default 5060)
- Proxy Server: 172.23.56.254
- Proxy Server Port: 5060 (1-65535, default 5060)
- Use Outbound Proxy: Enable (default disabled)
- DNS Server Support: Enable (default enable)
- Call Waiting: Enable (default enable)

Buttons for 'Set' and 'Cancel' are at the bottom. A note at the bottom states: 'Clicking on 'Set' will interrupt current conversation.'

INFINITE

Authentication Expired Time: when the time expires, the client must register itself on the SIP server again.

Registrar Server : Assigns the SIP Register Server's IP address.

Registrar Server Port: Register server port of a certain SIP domain.

Proxy Server: Assigns the Proxy server's IP address.

Proxy Server Port: Assigns the Proxy server's port.

Use Outbound Proxy: If all outgoing SIP request send to outbound proxy.

DNS Server support: If SRV DNS be support. (SRV- A DNS RR for specifying the location of services)

NAT Traversal

The screenshot shows the 'NAT Traversal' configuration page in the SIPset 311X web interface. The page has a navigation menu on the left with options like Network Settings, VoIP Settings, Advanced Settings, Account Settings, Server Settings, NAT Traversal (highlighted), Security, Voice Settings, Phone Settings, and Management. The main content area is titled 'NAT Traversal' and includes the following fields and options:

- STUN: Enable (default disabled)
- STUN Server Address: 0.0.0.0
- STUN Server Port: 3478 (1-65535, default 3478)

Buttons for 'Set' and 'Cancel' are at the bottom. A note at the bottom states: 'Clicking on 'Set' will interrupt current conversation.'

INFINITE

If your phone is connected to a router with NAT (Network Address Translation) and/or a firewall, you must select some settings in this area so that your phone can be reached from the Internet (i.e. can be addressed).

Through NAT, the IP addresses of subscribers in the LAN are concealed behind the public IP address of the router.

STUN

Activate the checkbox if you want your phone to use STUN as soon as it is used on a router with asymmetric NAT.

STUN Server Address (only if STUN is activated)

Enter the (fully-qualified) DNS name or the IP address of the STUN server on the Internet.

STUN server port (only if STUN is activated)

Enter the number of the communication port on the STUN server. The default port is 3478.

Security



Secure RTP: if secure RTP be support

Accept Non-SRTP Call: if Non-SRTP call can be accepted when secure RTP has been enable.

SRTP Security Type: Security type of SRTP use.

SRTP Pre-shared Key: Pre-shared Key of SRTP use. The length must between 1-16chars.

Voice Settings



You can set various parameters for voice transmission, e.g. the compression method (codec) to be used. These parameters should only need adjusting if so required by the SIP gateway or SIP proxy you are using. Please note the corresponding manufacturer's documentation in this regard.

The voice quality for VoIP connections is mainly determined by the **voice codec** used for transferring the data of your DSL connection.

Voice Active Detector: It is used in speech encoding software to determine if the voice being encoded is human speech or background noise. There are three types of silence suppression: NO CNG, Only G.711 Annex II type, and Codec Specific CN.

Line Echo Canceller Tail Length: Tail length for line echo cancellation. Default setting is in Disable mode.

Acoustic Echo Canceller Tail Length: Tail length for acoustic echo cancellation Default setting is in Disable mode.

Automatic Gain Control Tx Level: Automatic voice gain control for transmitting. Default setting is in Disable mode.

Automatic Gain Control Rx Level: Automatic voice gain control for receiving. Default setting is in Disable mode.

Phone Settings

General



Volume Setting

set the phone 's volume of Ringing/Handset/Speaker/Headset.

Phone Language

change the language displayed on LCD, English or Deutsch(German).

Ring Melody: change the melody of ring

Country specific Tones: set tone of keystroke.

Auto Redial Enable: enable or disable auto redial function

Auto Redial Times: set auto redial times

Time Format: time format displayed on lcd

Melody Update

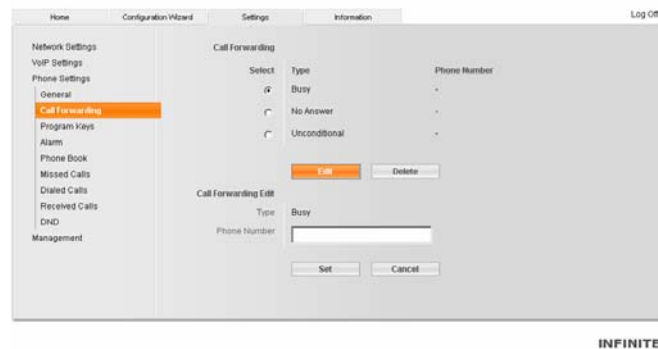
Object Select: select the item that will be updated.

Import: import a local melody file into the phone. The file size must be less than 22000 bytes, and its format must be PCM.

Restore Music of Hold: restore music of hold to default.

Call Forwarding

SIPset 311X



You can automatically forward incoming calls to another number. Click on the appropriate radio button to define whether the call

- is forwarded if engaged (i.e. you are already making another call),
- is forwarded if not answered (i.e. you do not answer the call)
- or is always forwarded.

Click on **[Edit]** and enter the phone number to which the calls should be forwarded. Confirm with **[Set]**.

You can cancel an existing call forwarding setting with **[Delete]**.

Program Keys



Assign functions or direct dial numbers to the programmable keys on the right-hand side of your phone.

- 1、 function can only be edited; but memory can be added/deleted and edited;
- 2、 a key only can be set as a function or memory, or the alert message will pop out to customer -----“The Key you select has been occupied!”
- 3、 a function only can be set on a key, but same memory content can set on different keys;
- 4、 When editing, customer can change a function’s key; and can change the content of a memory key.

Alarm

SIPset 311X



You can program up to three alarms. For each setting you can define whether the alarm should go off on a specific date or daily.

Phone Book

SIPset 311X



- 1、 Save phone book of the IPPhone to a local file.
- 2、 Import an local phone book file to IPPhone's phone book.(overwrite the current IPPhone's phone book)

The size of import file can't smaller than 8KB; there must be **[phone_book]** tag at the file's head, and there must be a phone book item at least in the file.

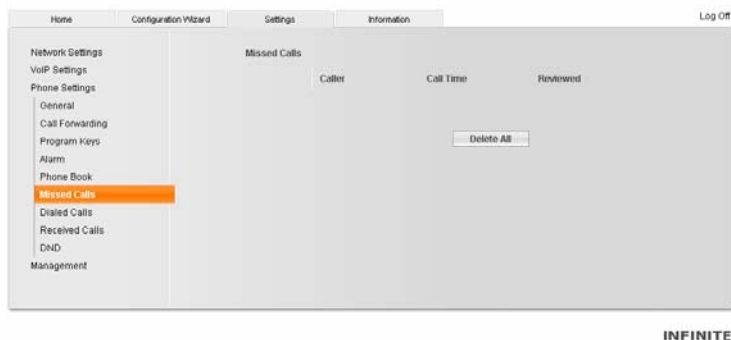
- 3、 Add phone book one by one use this page.

Name: Max length is 18 characters.

Phone Number: Max length is 32 digits.

Missed Calls

SIPset 311X



All incoming calls that were not answered are saved with phone number and time of the call. If the caller's name is in the phonebook you will see the name instead of the phone

number.

Dialed Calls

SIPset 311X

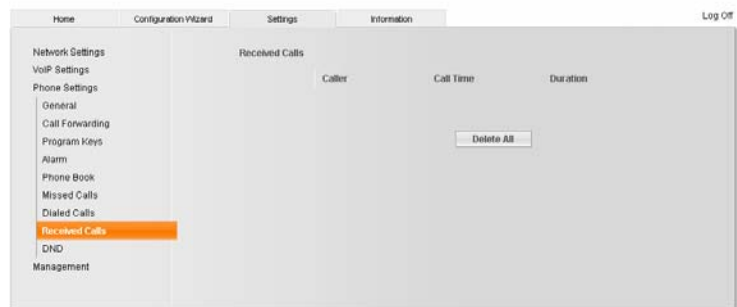


INFINITE

The last calls made from your phone are saved with the phone number (or name if in the phonebook), call time and call duration.

Received Calls

SIPset 311X



INFINITE

The last calls received on your phone are saved with the phone number (or name if in the phonebook), call time and call duration.

DND

SIPset 311X



INFINITE

User can add/delete Do Not Disturb List entry in the page.

Name: user name to DND, Max length is 18 characters.

Phone Number: phone number to DND, Max length is 32 digits.

Management

Administration

SIPset 311X

Access Level	Password	Confirm Password	Action
Admin	*****	*****	Change
User	****	****	Change

INFINITE

This page is used to display http port for remote control and to set remote administration IP address. If we set remote administration IP, only terminal with that IP can configure through web.

Remote administration: enable or disable remote administration

Http port for remote: http port for remote, it can not be changed on web.

Remote administration only from IP: Remote administration only from IP. 0.0.0.0 means no limit.

This web page is used to set accounts logging in web. Access Level includes admin/user/guest three different levels, admin is the highest level, an account with the level can do all the handles on web; oppositely, guest is the lowest one, the account with it can do nothing but view some pages. Clearly, user has the middle level power, the account with only can do part of handling actions.

System Log Settings

SIPset 311X

System Log	Kernel Log Level	VOIP Log	Remote Log Server Address	Remote Log Server Port
<input checked="" type="checkbox"/> Enable (default: disabled)	4 Warning (default: 4 Warning)	Disabled (default: disabled)	your.syslog.server	514 (1.65535, default: 514)

INFINITE

Customer can set system log configuration on this web page. There are two kinds of log information: Kernel log and VOIP log, and Kernel log can be set on different priority levels, on a certain level, the logs have higher levels number will not be recorded. The lower priority level, the log information recorded will be more important.

System Log: enable/disable (default) the system log function.

Kernel Log Level: 0(Emergence), 1(Alert), 2(Critical), 3(Error), 4(Warning)(default), 5(Notice), 6(Info), 7(Debug), Disabled(Kernel Log is disabled).

VoIP Log: enable/disable (default) VOIP Log.

Remote Log Server Address: assigns the remote log server's IP address.

Remote Log Server Port: assigns the remote log server's port.

Date/Time

Customers can easily change displayed time on LCD by configuration this web page. There are two ways to configure current phone time on web: manual or NTP. Time zone also can be configured on web in order adapt to customers in different countries.

SIPset 311X



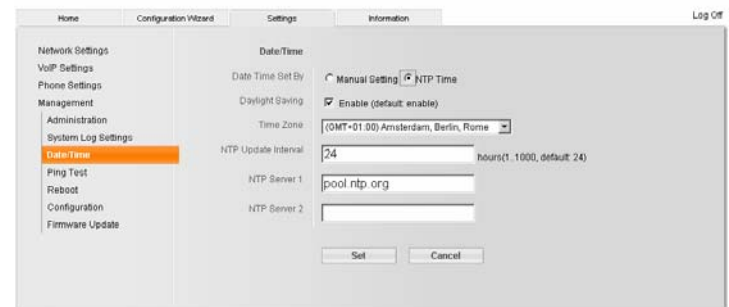
INFINITE

Date Time Set By: manual set date time or via ntp server

Date Value: set date in phone

Time Value: set time in phone

SIPset 311X



INFINITE

Date Time Set By: manual set date time or via ntp server

Time Zone: time zone

NTP Update Interval: a period to exchange ntp message.

NTP Server 1: ntp server domain or IP address

NTP Server 2: ntp server domain or IP address

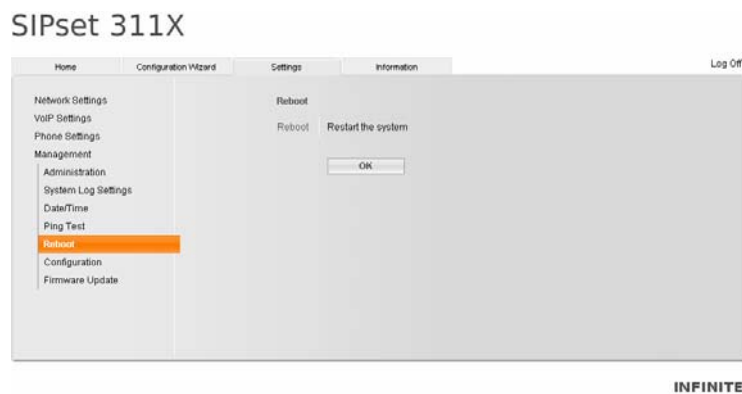
Ping Test

This page is used to test network environment. Some time we found some problems such as can't make a call or register fail on SIP server, and then we can use this page to test network's connection.



PING Destination: IP address to ping. This item is in order to test network connection.

Reboot



We can use this page to reboot the system. We must reboot system after config some web pages with red remarks on bottom.

Configuration



Save: save device current configuration to local file

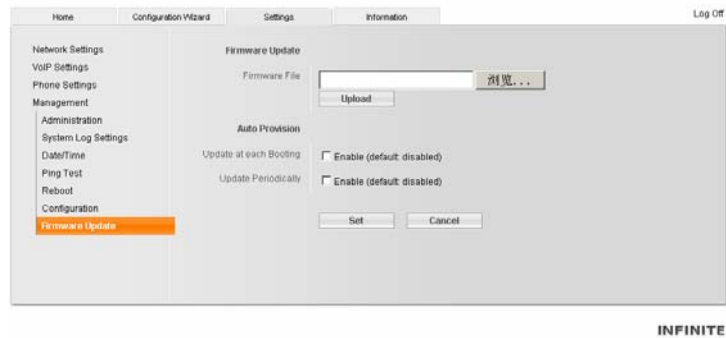
Restore: upload a local file to restore as device configuration

Factory Default: set device configuration to factory default setting

View Current Configuration: open a static page to show current configuration of system.

Firmware Update

SIPset 311X



There are two ways to update firmware by web. We can update a firmware directly through web or use auto provision. If we choose auto provision, we need install http server or TFTP server on host.

Please note :

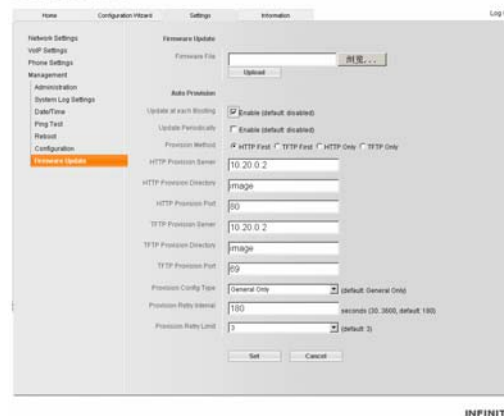
We recommend user should reboot their IP Phone before Firmware Update whatever update a firmware directly through web or use auto provision.

Firmware File: firmware to update

Firmware Update at each Boot: enable or disable auto provision at each phone boot

Firmware Update Periodically: enable or disable periodical auto provision

SIPset 311X



Update at each Booting: enable or disable auto provision at each phone boot

Update Periodically: enable or disable periodical auto provision

Provision Method: select auto provision method

HTTP Provision Server: IP address of http provision server which stores configuration file

HTTP Provision Directory: directory which stores configuration file

HTTP Provision Port: http provision configures server port number

TFTP Provision Server: IP address of TFTP provision server which stores configuration file

TFTP Provision Directory: directory which stores configuration file


TFTP Provision Port: TFTP provision configures server port number

Adjusting settings via the phone menu

Setting the language

A number of languages are available for your phone's display.

 → Phone settings  → Language 





  Select language

 Press the OK key

Setting call forwarding

You can forward incoming calls automatically to another number.

 → Phone settings  → Forward 

Select the desired function with   and confirm with . Then enter the telephone number to which calls should be forwarded and confirm with .

Busy

Call forwarding when you are already making a call.

No answer

Call forwarding when you do not answer the phone.

Unconditional

Forward every call immediately.



Disable all

Delete all call forwarding settings.

Setting the alarm

You can save up to 3 entries.

 → Phone settings  → Alarm 

The following functions can be selected with  .

Add alarm item



Enter the date in the format dd.mm.yyyy **or** do not enter a date: the alarm time will apply **every** day.



Press the OK key



Enter the time in the format hh:mm.



Press the OK key

View all

The list of stored entries is displayed.

Delete all

All entries are deleted.

Setting the date and time



→ Phone settings



→ Date/Time



Enter the date and time in the format dd.mm.yyyy hh:mm; e.g. 23 07 2008 16 59 for 23/07/2008, 16:59 hours.



Press the OK key

Setting ringers



→ Phone settings



→ Ringer settings



You can set:

ringer volume (8 volume levels, default setting: volume 5)

ringer melody (10 melodies, default setting: melody 8)



Press the up/down key to select **Volume** or **Melody**.



Press the up/down key to set the ringer volume or ringer melody.



Press the OK key.

To adjust the ringer volume while the telephone is ringing:

Before lifting the handset:





Press the volume up or volume down key.

The last value set is saved.

Setting the handset/speaker/headset volume

The volume for each of the above can be set to one of 8 levels and saved.

 → **Phone settings**  → **Volume** 



  Press the up/down key to select **Handset / Speaker / Headset**.

 Press the OK key.

  Press the up/down key to adjust the volume.

 Press the OK key.

Adjustments during a call



  Press the volume up or volume down key.

The last value set is saved.

Creating and managing phonebook entries

You can save up to 200 phone numbers and corresponding names in the phonebook. Proceed as follows using the phone's menu:

 → **Phone book** 

The following functions can be selected with  :

View entry

Select an entry with   and press .

You can select other functions with  :

Dial out: Dial the number of the entry.


Modify entry: Change the name or number of the entry.

Delete entry: Delete the current entry.

Detail: Show the name and number of the entry.

Add to DND: Add the entry to the list of blocked callers.



New entry

To create a new entry: enter the name and confirm with ; enter the number and

confirm with ; press  to return to the idle display.

Search entry

You can search for an entry by entering the first letter of the name. If necessary, press

  to browse to the desired entry.

Memory check

The display shows the number of existing entries and how many more entries can be added.

Delete all



Delete all entries in the phonebook.

Create and manage a list of blocked callers

You are not available to callers entered into this list; your phone will not ring if they call. You can save up to 100 phone numbers and corresponding names.



Proceed as follows using the phone's menu:

 → **DND List** 

The following functions can be selected with  .

View entry

Select an entry with   and press .




You can select other functions with  .

Modify entry: Change the name or number of the entry.

Delete entry: Delete the current entry.



Detail: Show the name and number of the entry.

New entry

To create a new entry: enter the name and confirm with ; enter the number and confirm with ; press  to return to the idle display.

Search entry

You can search for an entry by entering the first letter of the name. If necessary, press

  to browse to the desired entry.

Memory check

The display shows the number of existing entries and how many more entries can be added.

Delete all

Delete all entries.

Managing call record entries

The call records contains the last 20 missed calls, received calls and dialled calls (last number redial list). The name will appear on the display if you have saved the number in the phonebook.



 → **Call records**  → **Missed calls / Received calls / Dialled calls / Delete**

all 

The last call or dialed phone number is shown on the display.

  Select the desired entry.

 Press the OK key.

The following functions can be selected with   :

Dial out

Dial the number of the entry.

Detail

Display date and time of the call.

Add to phonebook

Save the number in the phonebook.

Add to DND

Add to the "Do not Disturb" list.

Delete entry

Delete selected entry from the list.

Programming function keys/memory keys

The seven keys on the right of the phone are programmable. Each assignment is programmable as a direct dial number or a function. The keys are designated from top to bottom in the menu as P1 to P7, and P8 to P14 after pressing the shift key.

The following function keys have default settings:

P1 [Hold]

P2 [Transfer]

P3 [Conference]

P4 [VoiceMail]

P5 [Receivedcall]

P6 [DND]

P7 [Headset]

Please note :

You cannot delete default settings, but you can assign them to other keys.

Programming function keys

 → **Program key**  → **Function key** 



Press the up/down key to select the desired function.



Press the desired function key.




Confirm query with OK.

Programming memory keys

 → **Program key**  → **Memory key** 



Enter the phone number to be saved. Press  to delete incorrectly entered digits to the left of the cursor.



Press the OK key.



Press the memory key under which you want to save the direct dial number.






Press the OK key. The number is saved to the memory key

Setting the network




Call up the current network settings or select the settings necessary to operate your phone in your local network and connect it to the Internet. For more detailed explanations of the individual components/terms, see the glossary.





 → **Network settings** 

Select a menu item with  and press . The current setting is displayed.

To exit the menu without saving changes: press .

To enter/change:

◆ Navigate to the left or right in the **selection fields** using . The selected field is marked with >. Confirm your selection with . Press  to cancel editing and skip back one menu level.

◆ Press  in the **input fields** to enter data. Confirm the query **modify?** with , enter your data and confirm with . Press  to exit the menu without saving changes.

You can display and edit the following fields (depending on the address type):

Set IP mode

Select **DHCP**, **FIXED**, or **PPPoE**.

- ◆ Select **DHCP** if you want your phone to be assigned a dynamic IP address by a DHCP server. No further settings are necessary for the local network.
- ◆ Select **FIXED** if you would like to set up a static local IP address for your phone. A static IP address is, for example, useful if port forwarding or a DMZ is set up on the router for the phone.
- ◆ Select **PPPoE** if you want to connect your phone directly to a VoIP server. You will receive a user name and a password from your provider.

IP address

Enter an IP address for your phone. This IP address allows your phone to be reached by other subscribers in your local network (e.g. PC).

The default setting is 172.23.56.253.

Please note the following:

- The IP address must be from the address block for private use that is used in the router. This is generally in the range 192.168.0.1 – 192.168.255.254 with the subnet mask 255.255.255.0. The subnet mask determines that the first three parts of the IP address must be identical for all subscribers in your LAN.
- The static IP address must not belong to the address block (IP pool range) that is reserved for the DHCP server of the router. It must also not be used by another device on the router.

If necessary, check the settings on the router.

Subnet mask

Entering the phone's subnet mask

Default Gateway

Enter the standard gateway address (usually the router's IP address).

DNS settings

Select the primary or secondary DNS address and enter the DNS server address.

PPPoE settings

Enter the username and password you have received from your provider.

NTP settings

Enter the address of a time server from which your phone will acquire the current time.

Setting up VoIP



Enter the general details of your SIP provider and the user-specific details of your SIP account. Now proceed analogously to entering the network settings.

Proxy settings

Enter the general addresses and ports of your VoIP provider.

User Info

Enter the user data for your SIP account you have received from your provider.

Call waiting

If this function is activated you will hear a knocking tone if you receive an incoming call during another call.

Restoring the phone's factory default



The display shows the query **Factory default?**



Press the OK key to reset the factory default settings.

or



Press the cancel key or menu key to cancel the process.

Rebooting the phone



The display shows the query **Reboot?**



Press the OK key to reboot the phone.

or



Press the cancel key or menu key to cancel the process.