



iBell office Software phone

Control of IP intercoms

[Alphatech Technologies s.r.o.](http://www.alphatechtechnologies.cz), December 2020

1. Features

- Transfer of video and audio from the IP intercom to the [iBell office](http://www.alphatechtechnologies.cz) app
- Supports both the SIP server and Peer-To-Peer communication modes
- Allows control of up to 100 IP intercoms
- Allows control of up to 4 relays on each IP intercom using DTMF code
- Includes Video Preview function
- Allows displaying up to 4 external IP cameras at each door entrance
- Includes a Pop-up window function for incoming calls
- Easy fault diagnosis
- Technical support available
- Easy and fast installation
- Supports most known IP phone systems and SIP servers (Asterisk, 3CX, FRITZ! Box, etc.)
- Requires Windows 10, Windows 8.1, Windows 7, Windows XP

2. Typical use

- Windows PC at the reception
- Offices without reception
- Replacement for IP phone



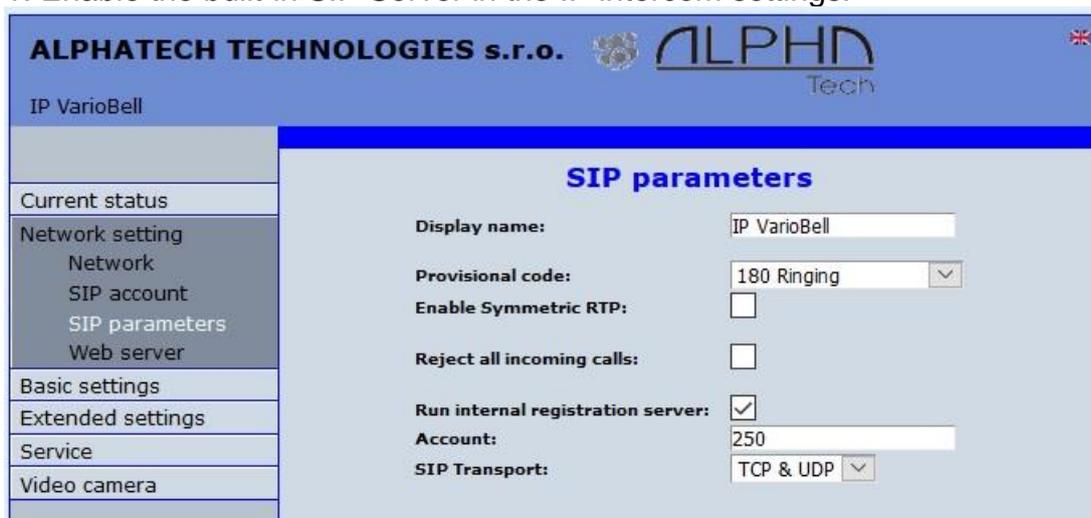
3. Function description

The [iBell office](http://www.alphatechtechnologies.cz) program is intended for remote communication with a person standing at an IP intercom. The program allows you to talk to a person, see their image and unlock their door. The program includes a Pop-up window function, which hides in the background when idle. This way it does not disturb the user at work and does not take up space on the PC monitor. The **iBell office** has been designed for the Windows operating system.

4. Connect the program directly to the IP intercom

The [iBell office](#) program can be connected / registered directly to the IP intercom. In this case, there is no need to use an external SIP server or IP PBX (IP phone system). Each IP intercom of [Alphatech Technologies](#) has a built-in SIP server. This solution is suitable if only one IP intercom is installed. Setting procedure:

1. Enable the built-in SIP Server in the IP intercom settings.



The screenshot shows the web interface for ALPHATECH TECHNOLOGIES s.r.o. The page title is "IP VarioBell". The main content area is titled "SIP parameters". On the left, there is a navigation menu with the following items: Current status, Network setting (Network, SIP account, SIP parameters, Web server), Basic settings, Extended settings, Service, and Video camera. The "SIP parameters" section contains the following fields:

Display name:	IP VarioBell
Provisional code:	180 Ringing
Enable Symmetric RTP:	<input type="checkbox"/>
Reject all incoming calls:	<input type="checkbox"/>
Run internal registration server:	<input checked="" type="checkbox"/>
Account:	250
SIP Transport:	TCP & UDP

2. In the IP intercom phonebook settings, enter the phone number for the **iBell office** program.



The screenshot shows the web interface for ALPHATECH TECHNOLOGIES s.r.o. The page title is "IP VarioBell". The main content area is titled "Phonebook". On the left, there is a navigation menu with the following items: Current status, Network setting, Basic settings (Phonebook, Relay, Door sensors, Setting SNMP, Timetable, Time setting, E-mail), and Extended settings. The "Phonebook" section shows "Number: 1 2" and the following fields:

Title:	The 1st call button
Email:	test@email-address.com
Enabled:	<input checked="" type="checkbox"/>
1. call number:	224
Timetable:	None
Calling:	Sequential
2. call number:	
Timetable:	None
Calling:	Sequential

3. In the [iBell office](#) settings, enter the IP address of the IP intercom as the SIP server and further set the IP address and telephone number of the IP intercom. The item “SIP Server User Password” is the same as the item “SIP Server User Name”, here it is “224”.

Settings
✕

SIP Server Connection

SIP Server User Name:

SIP Server User Password:

Authentication ID:

SIP Server IP Address:

SIP Server Network Port:

Registration Server IP Address:

Registration Server Port:

SIP Proxy Server IP Address:

SIP Proxy Server Network Port:

Outbound Proxy Server:

NAT and Firewall settings

Local Network

Public IP Address:

STUN Server IP Address:

User Settings

Run this program automatically when Windows starts

The program automatically minimize after its launch

Ringing tone:

Language selection: en

© For example: <http://192.168.1.250/video.mjpg>

Entrance Communicators Settings

Communicator Name:

Communicator IP Address:

Communicator Video Port:

Communicator Phone Number:

Incomming Substitute Phone Number:

Communicator Admin Password:

DTMF code to switch: Close Call

Auxiliary Camera IP Address or Domain:
@

User Name: Password:

DTMF code to switch: Close Call

Auxiliary Camera IP Address or Domain:
@

User Name: Password:

DTMF code to switch: Close Call

Auxiliary Camera IP Address or Domain:
@

User Name: Password:

DTMF code to switch: Close Call

Auxiliary Camera IP Address or Domain:
#

User Name: Password:

Default settings

Documentation

Save and Restart

Back

5. Connection of program and IP intercom using static IP addresses

This solution is suitable if more than one IP intercom is installed or if an older version of the IP intercom is used, which does not yet have a built-in SIP Server (for example the IP BELLv1 model).

You need to make sure that the IP addresses of the IP intercoms and a computer with the **iBell office** program do not change over time. For example, by using blocking in a DHCP server. Setting procedure:

1. Enter the IP address of the computer with **iBell office** program into the IP intercom's phonebook.



The screenshot shows the web interface for an IP VarioBell intercom. The header includes 'ALPHATECH TECHNOLOGIES s.r.o.' and the 'ALPHATECH Tech' logo. The page title is 'IP VarioBell' and the current page is 'Phonebook' for 'Number: 1 2'. A left sidebar contains a menu with options: Current status, Network setting, Basic settings (with sub-items: Phonebook, Relay, Door sensors, Setting SNMP, Timetable, Time setting, E-mail), Extended settings, Service, and Video camera. The main content area is titled 'Phonebook' and contains the following configuration fields:

Title:	<input type="text" value="The 1st call button"/>
Email:	<input type="text" value="test@email-address.com"/>
Enabled:	<input checked="" type="checkbox"/>
1. call number:	<input type="text" value="192.168.1.134"/>
Timetable:	<input type="text" value="None"/>
Calling:	<input type="text" value="Sequential"/>
2. call number:	<input type="text"/>
Timetable:	<input type="text" value="None"/>
Calling:	<input type="text" value="Sequential"/>
3. call number:	<input type="text"/>
Timetable:	<input type="text" value="None"/>

2. In the **iBell office** settings, enter the IP address of the IP intercom and fill-in all the listed ports, 80 and 5060 by default.

The screenshot shows the 'Settings' window for iBell office. It is divided into several sections:

- SIP Server Connection:** Fields for SIP Server User Name, SIP Server User Password, Authentication ID, SIP Server IP Address, SIP Server Network Port (5060), Registration Server IP Address, Registration Server Port (5060), SIP Proxy Server IP Address, SIP Proxy Server Network Port (5060), and Outbound Proxy Server.
- NAT and Firewall settings:** Radio buttons for Local Network (selected), Public IP Address, and STUN Server IP Address.
- User Settings:** Checkboxes for 'Run this program automatically when Windows starts' and 'The program automatically minimize after its launch'. A dropdown for Ringing tone (sound1.wav) and Language selection (en).
- Entrance Communicators Settings:** A list of four communicators. The first is 'Alphatech Technologies' with IP 192.168.1.250 and video port 80. The others are locked (lock icons) and have various settings for DTMF codes, close call, and auxiliary camera addresses.

At the bottom, there are buttons for 'Default settings', 'Documentation', 'Save and Restart', and 'Back'. A note at the bottom left says '@ For example: http://192.168.1.250/video.mjpg'.

6. Connection of the iBell office program and the IP intercom using the FRITZ!Box SIP server

1. Register the IP intercom to the **FRITZ!Box** SIP server.

The screenshot shows the 'SIP account' configuration page in the IP VarioBell web interface. The page title is 'SIP account'. The left sidebar contains a menu with options: Current status, Network setting (Network, SIP account, SIP parameters, Web server), Basic settings, Extended settings, Service, and Video camera. The main content area contains the following configuration fields:

Enabled:	<input checked="" type="checkbox"/>
Account:	620
Auth. Id:	620
Password:
SIP server:	192.168.1.192
Port:	5060
Send register:	<input checked="" type="checkbox"/>
Expiration [sec]:	600
Unregister before restart:	<input checked="" type="checkbox"/>
Use Outbound proxy:	<input type="checkbox"/>
SIP Transport:	TCP & UDP
Use DNS SRV:	<input type="checkbox"/>

Registration successful

2. In the IP intercom's telephone directory, enter the telephone number of the **iBell office** program, including the **FRITZ!Box** prefix "***"

The screenshot shows the 'Phonebook' configuration page in the IP VarioBell web interface. The page title is 'Phonebook'. The left sidebar contains a menu with options: Current status, Network setting, Basic settings (Phonebook, Relay, Door sensors, Setting SNMP, Timetable, Time setting, E-mail), Extended settings, Service, and Video camera. The main content area contains the following configuration fields:

Title:	The 1st call button
Email:	fritzbox@vario-bell.com
Enabled:	<input checked="" type="checkbox"/>
1. call number:	**621
Timetable:	None
Calling:	Sequential
2. call number:	
Timetable:	None
Calling:	Sequential
3. call number:	
Timetable:	None

3. In the **iBell office** settings, enter the **FRITZ!Box** as the SIP Server and add the IP intercom parameters.

Settings ✕

SIP Server Connection

SIP Server User Name:

SIP Server User Password:

Authentication ID:

SIP Server IP Address:

SIP Server Network Port:

Registration Server IP Address:

Registration Server Port:

SIP Proxy Server IP Address:

SIP Proxy Server Network Port:

Outbound Proxy Server:

NAT and Firewall settings

Local Network

Public IP Address:

STUN Server IP Address:

User Settings

Run this program automatically when Windows starts

The program automatically minimize after its launch

Ringing tone:

Language selection:

@ For example: <http://192.168.1.250/video.mjpg>

Entrance Communicators Settings

Communicator Name:

Communicator IP Address:

Communicator Video Port:

Communicator Phone Number:

Incomming Substitute Phone Number:

Communicator Admin Password:

1 DTMF code to switch: Close Call

Auxiliary Camera IP Address or Domain:

User Name: Password:

2 DTMF code to switch: Close Call

Auxiliary Camera IP Address or Domain:

User Name: Password:

3 DTMF code to switch: Close Call

Auxiliary Camera IP Address or Domain:

User Name: Password:

4 DTMF code to switch: Close Call

Auxiliary Camera IP Address or Domain:

User Name: Password:

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- The "SIP Server User Name" and "SIP Server User Password" must be set according to the account created in the **FRITZ!Box**.
- "SIP Server IP Address" is the IP address of the **FRITZ!Box**.
- "Communicator IP address" is the IP address of the IP intercom.
- The "Communicator Phone Number" contains the IP number of the IP intercom, including the **FRITZ!Box** prefix "***".
- The "Incomming Substitute Phone Number" entry is the same as the "Communicator Phone Number" entry only without the **FRITZ!Box** prefix and followed by the last digit which indicates the call button's number in the phonebook of the IP intercom.

If you encounter any problem, contact us at: support@alphatechtechnologies.cz

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