



**BlindShell**

Classic 2

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# 1 BlindShell Classic 2 User Guide

BlindShell Classic 2 is a button phone for blind and visually impaired people. The phone is controlled via the physical keypad or by voice commands. Feedback is provided by the built-in synthetic voice, vibrations, and additional acoustic signals.

Important notice: If you let your phone's battery discharge completely, it may appear that the phone is not able to charge at all. In such a case, leave the phone on the charger for several hours. Afterward, the phone should start charging again. Leaving a discharged battery in the phone for a longer period of time might lead to damaging the battery. Such a case is not covered by the phone's warranty. We recommend you remove the battery from the device when you are not using it for more than a week.

## 2 Getting started

### 2.1 Package contents

- BlindShell Classic 2 phone.
- Battery - a flat rectangular object.
- Earphones - on one end of the earphones, there is a 3.5MM connector (jack), the other end has two earbuds.
- USB wall charger - standard USB charger, input 100V~240V AC, 50/60Hz, output 4.7V-5.3V DC 0-2A.
- USB cable - a USB Type-C cable, with standard male USB Type-A on the other end.
- Charging cradle - a stand for charging the phone. There is also a adhesive pad that enables the cradle stick on a place.
- NFC tag (3x) - a sticker for object tagging. These tags can be read by a phone application.
- Lanyard - a strap that can be attached to the phone. It comes with a little hook that helps you to push the lanyard through the lanyard hole.

### 2.2 Phone description

#### Front side of the phone

The front side of the phone consists of the following parts. They are listed as they are placed on the phone from top to bottom.

- Earpiece - line-shaped protrusion used as a speaker during a phone call.
- LCD screen - the smooth area of the phone used for displaying information.
- Keypad - buttons used for controlling the phone and inputting text.
- Microphone - placed in between the buttons of the keypad. Used for voice input.
- Loudspeaker - line-shaped notch used for voice and audio output.

#### Rear side of the phone

The rear side of the phone consists of the following functional parts. All of them are located in the upper part of the rear side.

- Camera - highlighted by a tactile edge. Used for image taking in phone applications.
- Camera LED flashlight - the round-shaped notch next to the camera. It assists the camera in low-light settings.
- SOS button - the round-shaped button under the camera. Used in emergencies to call an assigned emergency contact.

## Edges of the phone

On the top edge, there are:

- Earphones socket.
- LED flashlight.

On the bottom edge from left to right, there are:

- Lanyard hole.
- USB Type-C connector - used for charging the phone and connecting the phone to a computer.
- Opening slit - used for taking the back cover off the phone.

On the left side edge, there are volume buttons used for controlling the volume of the voice and audio output.

On the right side edge, there is a side action button used for opening favorite applications list and invoking voice control.

## 2.3 Taking off the back cover

To remove the back cover of the phone, hook your fingernail into the opening slit located on the bottom-right edge of the phone and pull the back cover away from the device. When returning the back cover on the phone, make sure all edges of the cover fit the phone.

## 2.4 Inserting SIM card, SD memory card, and battery

To insert a SIM card, SD memory card, or battery, take off the back cover first. When the back cover is off, the rectangular hollow space in the phone is the battery compartment. Slots for cards are placed in this space.

### Inserting SIM cards

The phone has two micro SIM card slots placed in the upper part of the battery compartment. Next to them, on the right side, there is a slot for an SD memory card.

To insert a SIM card, place it in a way that card contacts are facing downwards, and its beveled edge is its upper left corner. Then slide the card into the slot.

## **Removing a SIM card**

To remove a SIM card from a slot, place a tip of your finger on the edge of the SIM card, push down on it and slide your finger with the SIM card out of the SIM card slot.

## **Inserting an SD memory card**

The SD memory card slot is the rightslot in the upper part of the battery compartment. To insert an SD memory card, place it in a way that card contacts are facing downwards and slide it into the slot. Push the card to overcome small resistance. Click sound will signal that the card is fixed in the slot.

## **Removing an SD memory card**

To remove an SD memory card, push the card into the slot until the clicking sound signals that the card is released. Then slide the card out of the slot.

## **Inserting the battery**

To insert the battery, locate a protrusion on the edge of the battery. This protrusion should point towards the top corner of the battery compartment. Slide the battery from the top to the bottom into its compartment, it should fit snugly.

## **Removing the battery**

To remove the battery, use a groove located in the top right corner of the battery compartment. Pull the battery upwards.

## **2.5 Charging**

The phone can be charged via a USB cable or charging cradle. To use the charging cradle, connect the USB Type-C cable to the cradle's socket, which is on the back-bottom part of the cradle. Place the phone in the cradle. The phone's USB socket should be face down. The rear side of the phone should rest on the cradle.

## **2.6 Turning the phone on**

To turn on the phone, long press the back button. The phone will play a start-up melody after a while. The phone is ready when it starts speaking. Registration to the mobile network may take up to a minute after the phone turns on.



## **3 Controlling the phone**

### **3.1 Volume**

Volume buttons are on the left side edge of the phone. The volume up button increases the current volume of voice or audio output. The volume down button decreases it.

### **3.2 Navigation**

Navigation buttons are in the upper part of the keypad. Their usage is to navigate through phone menus and item lists.

#### **Moving through menu or list of items**

Menus or lists of items are designed as cyclic lists. That means if the last item is reached, moving to the next item jumps to the first item of the list. And vice-versa, while being on the first item moving to the previous item jumps to the last item of the list. A beep tone lets you know you are at the first or last item. Navigation in a menu or list of items follows:

- To move to the next item, press the down button.
- To move to the previous item, press the up button.
- To enter a menu item or select the item, press the confirm button.
- To leave the current menu or item list, press the back button.

Tip: Long press the up button to jump to the first item in the menu. To jump to the last item, long press the down button. It is possible to jump to a specific position in the menu by pressing the relevant numbers on the keypad. Multiple digits are accepted.

#### **Find function**

The long lists of items may have a find function as the last item of the list. It can be quickly accessed by pressing the up button while being on the first item of the list.

#### **Down button**

The down button is the line-shaped button placed in the middle in the second row of buttons. The down button does the following:

- Press to move to the next item in a menu.
- While writing a message or other text input, press to move to the next character.
- While being on the main screen, press to open the main menu.

## Up button

The up button is the line-shaped button placed in the middle in the first row of buttons. The up button does the following:

- Press to move to the previous item in a menu.
- While writing a message or other text input, press to move to the previous character.
- While being on the main screen, press to open the main menu.

## Confirm button

The confirm button is the big green dot-shaped button placed on the left in the second row of buttons. The confirm button does the following:

- Press to enter a menu item, select list item, confirm actions or accept calls.
- While being on the main screen, press to open the main menu.

## Back button

The back button is the red slash-shaped button placed on the right in the second row of buttons. The back button does the following:

- Press to go back in a menu, cancel actions, reject or hang up calls.
- While writing a message or other text input, press to delete the previous character. Long press to delete the whole text.
- Anywhere else, long press the back button to return to the main screen.

## 3.3 Action buttons

Action buttons trigger the same specific action anywhere on the phone.

### Left action button

The left action button is the dot-shaped button placed on the left in the first row of keypad buttons. Press to show information about the state of the phone, such as time and date, battery level, information about networks, or missed notifications.

## Right action button

The right action button is the dot-shaped button placed on the right in the first row of keypad buttons. Press to repeat the last utterance. Long press to spell the last utterance.

## Side action button

The side action button is the oblong button on the right side edge of the phone. The following actions can be performed:

- Press to open your favorite applications list.
- Long press to invoke voice control.
- While writing a message or other text input, long press to invoke voice dictation of the text.

## 3.4 Numeric keypad

The numeric keypad consists of four rows of convex buttons. The first row contains buttons one, two, and three. The second row contains buttons four, five, and six. The third row contains buttons seven, eight, and nine. The last, fourth row, contains buttons asterisk (star), zero, and hash (number sign).

### Asterisk button

The asterisk button is the left button in the bottom row of the numeric keypad. Long press the asterisk button to lock the phone. To unlock the phone, long press the asterisk again. This feature can be disabled in Settings.

### Hash button

The hash button is the right button in the bottom row of the numeric keypad. Long press to open a menu with sound profile options (silent, vibration, loud, airplane mode).

## 3.5 Text input

### Text input by numeric keypad

While writing a message or other text input, the numeric keypad buttons are used to input text, numbers, and special characters. Each button, except the hash button,

contains a group of characters. You can cycle through the group of characters by pressing the respective button multiple times.

For example button two contains characters A, B, C, and number 2. To enter the letter B – press the button twice. To enter the number 2 – press the button four times or long press the button.

- Button one contains punctuation special characters.
- The asterisk button contains the rest of the special characters.
- Button zero contains the number 0 and space.
- The hash button changes the capitalization of the letters and switches between numeric and alphanumeric keyboard entry.
- The long press of the hash button opens a menu with emojis. Press the confirm button to input the selected emoji.
- To move in the text, press the down or up button. To select between moving by character or by word, press the left action button.

Tip: The writing of a specific character can be finalized by pressing the down button. This allows writing another character of the same button immediately (without waiting for the click sound, which indicates that the character was entered).

## **Text input by voice dictation**

While writing a message or other text input, voice dictation can be invoked by pressing the side action button. After a beep tone, start dictating the text. After each dictated segment, the phone slightly vibrates. At this moment, text dictation can be manually finished by pressing the confirm button, back button, or the side action button. Voice dictation finishes automatically if no text is dictated for a few seconds.

## **Time input**

While entering time in applications such as Alarm, Calendar, or setting phone's time, use numeric keypad buttons to input four time digits. The first pair of digits represents hours and the second pair of digits represents minutes.

## **3.6 Voice control**

The phone can be alternatively controlled by voice commands. To invoke voice control, press the side action button. After a beep tone, start dictating the command. The voice control has the following functionality:

- Opening any application by simply saying its name. For example, to open the application messages, start the voice control and say "messages".
- Dialing contact from the contact list. For example, to call Michael, start the voice control and say "call Michael".
- Write message to contact from the contact list. For example, to write a message to Michael, start the voice control and say "send message to Michael". Afterward, the text can be input by the numeric keypad or voice dictation.

## **3.7 SOS button**

Long press the SOS button to call the assigned emergency contact. Confirmation is required. If no contact is assigned to the SOS button, then the long press of the button opens a menu for assigning an emergency contact.

## **3.8 File transfer from PC to BlindShell**

### **Windows machines**

The phone should be recognized as an external device. Afterward, files can be copied via any file explorer application from the computer to the phone. If the device is not recognized by the computer, please install the latest updates and check if there is an MTP driver present.

### **Apple machines**

To copy files from a Mac device to the phone, Android File Transfer software is required. This software can be downloaded here: <https://www.android.com/filetransfer/>.

### **Linux machines**

The phone should be automatically recognized by the computer. Copy the files to the phone with a file explorer application.

## **4 BlindShell functions**

### **4.1 Main screen**

The main screen is a starting point when using the phone. It provides the current time information and brief information about the number of missed notifications such as unread messages, missed calls, etc., if there are any. The following actions can be done from the main screen:

- To open the main menu, press the confirm button, up button, or down button.
- To dial a number, press the appropriate numbers on the numeric keypad and dial by pressing the confirm button.
- To activate the quick dial, long press the relevant number on the numeric keypad. If no quick dial is assigned to the number, the long-press opens a menu for assigning a quick dial.
- To open call history, long press the confirm button.

To return to the main screen from anywhere on the phone, long press the back button.

### **4.2 Call**

The Call menu item allows making phone calls to numbers or contacts in the contact list. It also contains call history, statistics, and blocked numbers settings.

#### **Answering an incoming call**

- To answer an incoming call, press the confirm button.
- To reject or hang up a call, press the back button.

#### **Caller's name announcement**

To announce the caller's name, press the right action button. The automatic caller's name announcement can be turned on in the sound and voice output settings of the phone.

#### **Dial contact**

The Dial contact menu item opens the list of contacts. Move through the list and press the confirm button to dial the selected contact. While going through the list

of contacts, type the letter on the keypad to move to the contacts starting with that letter.

## Dial number

The Dial number menu item opens a place where you can input numbers. Type the phone number and press the confirm button to initiate the call.

## Call history

The Call history menu item contains a list of all incoming and outgoing calls and their details. Press the confirm button on the selected call item to open a menu with the following options:

- Dial the contact/number.
- Write a message.
- Information about the length of the call.
- Save the number to contacts (if it is not already saved).
- Add the number to the existing contact (if it is not already saved).
- Block number.
- Delete the call from the call history.
- Delete all history. This will delete all calls from the call history.

## Call statistics

The Call statistics menu item opens a list of call statistics of the last month. The last item allows setting a monthly cycle start day. It sets the starting day of the month from which the statistics are recorded.

## Blocked numbers

The Blocked numbers menu item opens a list of contacts and phone numbers that are prevented from making phone calls to your device. To add a new blocked number or contact, select the Add blocked number item. To unblock the number or contact, press the confirm button on the selected number or contact.

## Recording a phone call

To record a phone call, press the confirm button during an active phone call. Select the Start recording call menu item. To stop recording, press the confirm button and select

Stop recording call. The recorded phone call is saved in the BlindShell/recordings folder and can be found in the Records list of the Voice recorder application.

## **Turn on speakerphone during a phone call**

To turn on the speakerphone during a phone call, press the confirm button during an active phone call. Select the Turn on speakerphone menu item. To turn off the speakerphone, press the confirm button and select the Turn off speakerphone. The automatic speakerphone can be turned on in the sound settings of the phone.

## **Mute microphone during a phone call**

To mute the microphone during a phone call, press the confirm button during an active phone call. Select the Mute microphone menu item. To unmute the microphone, press the confirm button and select Unmute microphone.

## **Answering second incoming call**

The second incoming call during an active call is signaled by repeated beeps. Press the right action button to announce the caller's name of the second incoming call. Press the confirm button to answer the second call and hold the current call. Press the back button to hang up an active call.

## **4.3 Messages**

The Messages menu item allows writing messages to numbers or contacts in the contact list. It also contains past conversations (incoming and outgoing messages), drafts, and messaging settings.

Note: While writing a message, press the right action button to read back the whole message and the number of remaining characters to the next message.

### **Write SMS to contact**

The Write SMS to contact menu item opens the list of contacts. Move through the list and press the confirm button to select the contact. Write the text of the message and send it by pressing the confirm button.

### **Write SMS to number**

The Write SMS to number menu item opens a form menu with the following items:



- Number - enter the recipient's phone number.
- Text - enter the text of the message.
- Send message - select to send the message.

## Write SMS to multiple recipients

The Write SMS to multiple recipients menu item opens a form menu with the following items:

- Recipients - add recipients of the message. More recipients can be added. To delete the recipient from the list, move to the recipient in the list and press the confirm button.
- Text - enter the text of the message.
- Send message - select to send the message.

## Conversations

The Conversations menu item opens the list of conversations with contacts and numbers. Select the conversation to list incoming and outgoing messages to related contact or number. Press the confirm button on the selected message item to open a menu with the following options:

- Reply - opens text input. Type the message and press the confirm button to send it as a reply.
- Forward - allows forwarding the message. Select a contact, number, or e-mail address to forward the message to.
- Call - dials the contact or the phone number.
- Delete - deletes the message.
- Delete conversation - deletes all incoming and outgoing messages of this conversation.
- Save as a new contact - saves the number to contacts (if it is not already saved).
- Add to contact - adds the number to the existing contact (if it is not already saved).
- Numbers in this message - lists numbers contained in the text of the message. Press the confirm button to perform an action with the selected number.

## Drafts

The Drafts menu item opens the list of messages saved as drafts. A draft is an unfinished message which was not sent. Press the confirm button on the selected draft to finish it, send it, or save it as a draft again.

## Messaging settings

The Messaging settings menu item opens the menu to set notifying about message delivery or to turn on and off sending messages with diacritics.

### 4.4 Contacts

The Contacts menu item allows browsing contacts, adding new ones, or editing existing contacts. It also contains setting up the quick dial and backing up and importing contacts.

#### Contacts list

The Contacts list menu item opens the list of contacts stored in the phone and SIM card. While going through the list of contacts, type the letter on the keypad to move to the contacts starting with that letter. Press the confirm button on the selected contact to open a menu with the following options:

- Dial - calls the contact.
- Send message - opens a text input of the message. After text input, press the confirm button to send the message to the contact.
- Send e-mail - opens new e-mail form, the field Recipients is pre-filled with contact's e-mail address (only available when contact has e-mail address filled).
- Edit contact - opens a form for editing contact's details.
- Assign ringtone - opens a list of ringtone melodies. Move through the list and press the confirm button to assign a ringtone to the contact. This melody will play during an incoming call from this contact.
- Send contact as a business card - opens a menu to select either a contact or a phone number, to which the current contact will be sent as a business card.
- Delete contact - deletes the contact from the contacts list.

#### SIM card contacts

Contacts stored on SIM cards are displayed in the contact list. If a contact is deleted from the contacts list, it will also be deleted from the SIM card. When a SIM card's contact is edited, it will be saved as a new contact to the phone and the original one will be removed from the SIM card.

#### Add new contact

The Add new contact menu item opens a form for adding a new contact. The following contact information can be stored: first name, surname, mobile phone number, home

phone number, work phone number, another phone number, e-mail address, and postal address. Select the Save contact menu item to save the contact.

## Single button dialing

The Single button dialing allows setting quick-dial contact for each number on the keypad. The quick dial is used for quick dialing of up to 10 selected contacts. To assign a quick dial contact to a number, move through the list of numbers (0-9) and press the confirm button on the chosen number. To remove a quick dial of the number, select the assigned number. An emergency contact for the SOS button can be assigned here, too.

While being on the main screen, long press the number on the keypad to quickly dial the assigned contact.

## Importing contacts

The Import contacts from file menu item will import of contacts from the file to the phone's contacts list.

- To import contacts, copy .vcf file to the root folder of the SD memory card, if present, or to the root folder of the internal phone's internal storage. The file has to be named Contacts.vcf.
- If Contacts.vcf is present in both storages, the file located on the SD memory card will be used.
- Contacts in the Contacts.vcf file identical to contacts already stored in the contacts list will be skipped during import.
- After the contact import finishes the Contacts.vcf file is renamed to Contacts-imported.vcf.

## Backing up contacts

The Backup contacts to file menu item runs a backup of contacts to Contacts.vcf file.

- If the SD memory card is present in the phone, the Contacts.vcf file is created in the root folder of the SD memory card.
- If no SD memory card is present in the phone, the Contacts.vcf file is created in the root folder of the phone's internal storage.

## Contact settings

The Contact settings menu item opens a menu with the following options:

- Sort contacts - changes contact sorting, the contacts list can be ordered alphabetically by given name or by surname.
- Display order - changes the order of reading the contact items. Either a given name or a surname can be announced first.
- SIM contacts visibility - allows hiding or displaying contacts stored on SIM cards in the contacts list.
- Delete all contacts.

## 4.5 Applications

### Tools

#### Alarm

The alarm application allows creating alarms at specific times and days. To dismiss an active alarm, press the confirm button or the back button.

#### New alarm

To create a new alarm, select the New alarm menu item, which opens a form with the following options:

- Set time - opens number input which accepts 4 digits as a time. The first pair of digits represents hours and the second pair of digits represents minutes.
- Set repeating - opens a list of days of the week. Select the days the alarm should go off. If none of the days is selected, the alarm will go off daily.
- Save alarm - saves the alarm and activates it.

#### Editing the alarm

Select the existing alarm from the list to open a menu with the following options:

- Activate/deactivate alarm - an inactive alarm is stored in the phone but will not go off because it is no longer an active alarm.
- Change alarm - opens a form menu to change the alarm's time and days.
- Delete alarm - deletes the alarm.

#### Calculator

The Calculator allows performing basic arithmetic operations - addition, subtraction, multiplication, and division.

- To perform the operation, press the confirm button.
- To choose a mathematical operator, press the asterisk button.
- To input the decimal point, press the hash button.

## Calendar

The Calendar application allows creating and tracking the agenda.

### Adding new event

To add a new event, select Add new event menu item. This opens a menu form with the following items:

- Title - the title of the event (required).
- Location - the location of the event, or more information about the event.
- Start date - the first day of the event (required).
- Start time - the start time of the event. The default value is the whole day event.
- End date - the last day of the event.
- End time - the end time of the event.
- Repetitions - select if the event should be repeated periodically. Set the number of repetitions, the end date of repetitions, or unlimited repetitions.
- Reminder - sets the reminder for the event.
- Save event - saves the event.

### Browsing the agenda

To browse the agenda, select the Agenda menu item. To edit or delete the event, press the confirm button.

### Browsing the calendar

To browse the calendar by weeks and days, select the Browse calendar menu item. Select a year, month and week to see the number of events that week. Press the confirm button to browse events by day or by the entire week.

### Find event

To find an event, select the Find menu item and enter the name of the event.

### Name days

The Name Days menu item allows browsing name days of the following seven days, finding the date by name, or finding the name by date.

## Public holidays

To show public holidays on agenda, select the Settings menu item and set public holiday visibility to visible. To use this function, an internet connection is required to download the list of public holidays.

## Flashlight

The Flashlight application turns on the camera's LED light.

## Minute timer

The Minute timer is a basic countdown that plays a notification melody after a specified amount of time. When the minute timer is active, other phone functions can be used. To dismiss the alarm press the confirm button or the back button.

### Setting the countdown

- To set the timer, press the confirm button.
- Select the Set time menu item to set hours, minutes, and seconds of the countdown.
- Select the Activate menu item to activate the timer.

### Pausing and canceling the countdown

- While the timer is running, press the confirm button.
- Select the Pause menu item to pause the timer at its current time or select the Cancel menu item to stop the timer and reset it to its initial time.
- To resume the paused timer, press the confirm button and select the Resume menu item.

## Notes

The Notes application allows writing notes.

To edit, send or delete an existing note, select the note in the notes list.

## Stopwatch

The Stopwatch is a utility to measure elapsed time. When the stopwatch is active, other phone functions can be used.

- To start the stopwatch, press the confirm button to open the menu and select start stopwatch.
- To stop the stopwatch, press the confirm button while the stopwatch is running.
- To resume the stopwatch, press the confirm button to open the menu and select resume stopwatch.
- To restart the stopwatch from zero, press the confirm button to open the menu and select restart stopwatch.
- To reset the counter and set time to zero, press the confirm button to open the menu and select zero stopwatch.

## Unit converter

The Unit converter allows converting physical units.

To convert units, set input and output unit, value, and select Convert.

## Voice recorder

The Voice recorder application allows taking voice memos or recording sound.

- To save the recording, press the confirm button while recording.
- To pause recording, press the back button while recording. To resume recording, press the confirm button. To save the recording, press the back button while the recording is paused.
- To play, rename, share or delete the recording, select the recording in the records list.

## Weather

The Weather application shows the current weather of the current location and a forecast for the upcoming three days.

- To see more details, press the confirm button.
- To see weather information in another city select menu item: Forecast in a different city.

Note: This function requires an internet connection.

## Communication

### E-mail

The E-mail application is an e-mail client that allows managing one existing e-mail account.

## Log in to an e-mail account

To log in to an e-mail account, enter e-mail address, SMTP server address, IMAP server address, password, and select Save. Information about the SMTP and IMAP server addresses can be found on the website of the e-mail provider.

Important notice: In some cases, you need to explicitly allow third-party applications to remotely access your e-mail, or you have to enable IMAP access for your e-mail account.

## Log out of an e-mail account

To log out of an e-mail account or change login credentials, go to e-mail Settings and select Edit account.

## Telegram

Telegram is a chat application that allows communication with other users of Telegram.

Note: This function requires an internet connection.

## Registration

To use Telegram, the phone number has to be registered. Enter a phone number first. If the number already has been registered, a verification code will come in the SMS message, and login will proceed.

If the number has not been registered before, enter first and last name which will be visible to other users on Telegram. Then finish the login process.

## Messaging

- To start a new conversation select a contact from the Contacts list.
- To send a message or perform other actions, press the confirm button in conversation.
- To start a group conversation, select Create a new group in the Groups menu item.

## Settings

- Stay connected in background - if set to on, a new message notification is active even when the Telegram application is not opened.
- Other members last seen visibility - if set to on, the conversation contains information when was the contact last active in Telegram (for example 2 hours ago).
- Log out - logging out of Telegram.



## Media

### Camera

The Camera allows capturing images using the integrated camera of the phone.

- A periodic clicking sound indicates that the camera is opened and ready to take a picture.
- To take a picture, point the camera towards the object or scene and press the confirm button.
- The shutter sound indicates that the picture has been taken. Then select save or view the image.
- You are prompted to record a short description when saving the image. This description identifies the image in the gallery.

### FM Radio

The FM Radio allows playing FM radio stations. Earphones have to be plugged in to use the FM Radio, they serve as an antenna.

- To play a radio station, select the Play radio menu item.
- To automatically tune to the next/previous radio station, press the down/up button.
- To add the radio station to favorites, press the confirm button while playing and select Save to favorites. Take the same steps to remove it from favorites.
- To play the sound from the loudspeaker, press the confirm button while playing and select Play from speaker. Take the same steps to switch back.
- To tune the frequency precisely, press the confirm button while playing and select Manual tuning. The down and up button now move the frequency by 0.1 MHz. Take the same steps to switch back to automatic tuning.
- To enter a specific frequency, press the confirm button while playing and select Enter frequency.

### Images

The Images application allows browsing images captured by the Camera application or stored in the phone.

- To browse images captured by the camera, select the Camera images menu item.
- To browse copied or downloaded images on the phone, select the Other images menu item.
- The voice description is played while browsing the images.

- To zoom in on the image, press the confirm button while browsing the images and select Zoom in. Take the same steps to zoom out. Zoom in can be done by pressing the hash button, zoom out by the asterisk button.
- To see image information, change the recorded description or delete the image, press the confirm button while browsing the images and select the respective menu item.

## Share image

To share an image, press the confirm button while browsing the images and select the Share image menu option. That opens a menu with the following options:

- Share image by e-mail - opens a new e-mail with an image added as an attachment.
- Share image by text message - The image will be encrypted and uploaded to BlindShell servers. The recipient will receive a text message with a link to this image. This function requires an internet connection.

Charges and privacy:

- We do not use MMS to facilitate this function. You will be charged a standard SMS fee by your mobile provider (and for the data transfer if you use mobile data).
- All images sent through this function are end-to-end encrypted using a secure cipher (AES). The decryption key is contained in the text message and only sent to the recipient of your choice and never transferred anywhere else. Although the encrypted image data is stored on our servers, nobody (including the BlindShell company) can view the content of shared images without the key.
- We store encrypted image data for at least 14 days after upload.

## Internet Radio

The Internet Radio allows listening to internet radio stations from around the world.

- To play a radio station, select the station in the station list.
- To add the radio station to favorites, press the confirm button while playing and select Save to favorites. Take the same steps to remove it from favorites.

Note: This function requires an internet connection.

## YouTube

The YouTube application allows playing freely available audiovisual content posted on the YouTube site.

Important notice:

- All YouTube videos are the work of independent authors. BlindShell is not affiliated with the YouTube platform or the content creators in any way and can not be held responsible for anything published on YouTube.
- We access YouTube in anonymous mode. BlindShell does not require or support user login. YouTube Premium content or age-restricted content is not available.
- The lists of your favorite videos, history, or channels stored in your BlindShell are not synchronized to other devices or your YouTube account.
- Some videos or live streams may use incompatible video formats that can not be played back on your phone.

## Playing a video

- To search for a video or channel, select the Search menu item.
- To browse recently viewed videos, select the History menu item.
- To browse favorites videos, select the Favorites menu item.
- To browse the newest videos by different categories, select the Categories menu item.
- To open video options, select the video from the list.
- To play the video, select the Play from the beginning or Resume playback in video options.

## Settings

Video mode - sets the video image orientation. The portrait image is the default orientation of the phone, the video is centered on the screen. The landscape image rotates the video image 90 degrees clockwise and makes it fullscreen. Only the sound option disables downloading video image data to reduce the amount of data downloaded.

## Music player

The Music player allows playing audio files stored in the phone's internal storage or SD memory card. Place audio files in the Music folder of the phone or memory card to list them in the Music player.

- To play an audio file, select the file in the list of songs.
- To play the next/previous audio file, press the down/up button.
- To pause the playback, press the back button.
- To go back to the list of songs, press the back button while paused.
- To rewind forward, hold the down button while playing.
- To rewind backward, hold the up button while playing.

- To add the audio file to favorites, press the confirm button while playing and select Save to favorites. Take the same steps to remove it from favorites.
- To delete the audio file, press the confirm button while playing and select Delete song.

## Books

### Library

The Library contains a list of online library services which allow downloading books readable in the Book reader. Some libraries may require login with an existing account.

- To browse available books, select the library service from the list.
- To search a book, select the Search book menu item. Search can be performed by Title, Author, or Key Word.
- To download the book, select the book and select the Download book menu item. To cancel downloading the book, press the back button. The book is available in the Book reader when downloaded.

### Book reader

The Book reader application allows reading audiobooks, EPUB, and books in txt files. To list a book in the Book reader, download a book in the Library application or copy the book files to a BlindShell/Books directory of the phone's internal storage or SD memory card. The folder or file in this directory is recognized as a single book in the Book reader.

- To read a book, select the book in the Books list and select Read from the beginning or Continue reading, if the book has been already read.
- To pause the playback, press the back button.
- To resume the playback, press the confirm button while paused.
- In an audiobook, to move to the next/previous chapter or part of the book, press the down/up button.
- In a text file book, to move to the next/previous utterance, press the down/up button.

### Playback menu

To open the playback menu, press the confirm button while playing. The playback menu has the following options:

- Jump to a percent of the book - select and enter the percent of the book that the book reader should jump to (number 0-99).
- Play next chapter - plays the next chapter/part of the book, if there is any.
- Play previous chapter - plays the previous chapter/part of the book, if there is any.
- Add a bookmark - creates a bookmark of the current position in the book. Enter the name of the bookmark or leave empty input to set the current timestamp as the bookmark's name.
- Move in book (only in audiobook) - sets the down and up button to rewind forward and backward the book by 10 seconds. If the down or up button is not pressed for 10 seconds, these buttons start working as usual.
- Speech rate (only in text file book) - changes the book reader rate of the speech.
- Speech language (only in text file book) - changes the language of the text to speech in the book reader.

## Games

### Dice Roller

The Dice Roller is not a regular game but the application is useful when playing board games like Ludo. A virtual die can't be lost and the outcome is known instantly.

- Roll a die - the phone will randomly pick a number from 1 to 6 (or your preferred number of sides). Press the confirm button to start a new roll.
- Number of sides - you can change the number of sides the virtual die has. Starting from two (a coin), through six (a normal Ludo die) up to 99 sides.

### Hangman

Hangman is a simple word game. The goal of the game is to guess a hidden word, letter by letter. You have a limited number of attempts. To change the amount of attempts, select the Difficulty menu item.

### Gameplay

A word to guess is represented by a sequence of letters. In the beginning, each of the letters is hidden and replaced with a beep. On the screen, dashes are displayed instead of missing letters. This way you can tell how many letters there are. Use the keyboard to type a letter you want to guess. The game will inform you whether your guess was successful or not. A guess is successful if the word contains your letter (the order is not important). After each guess, the sequence will be updated, and you will be able to identify correctly guessed letters and their position within the word. If you need to repeat the sequence, press the right action button.

To win the game, you need to correctly guess the word using a limited amount of guesses.

## Mau-mau

The Mau-mau is a simple card game you can play against the phone.

### Gameplay

This game uses a deck of 32 cards, either German suit (values seven to ten, Unter, Ober, King, and Ace) or French suit with only values seven to ten, Jack, Queen, King, and Ace. To change the card style and opponent difficulty, select the Settings menu item.

Each player initially gets four cards. The point of this game is to get rid of all your cards.

1. The first card of the game can be arbitrary.
2. Players take turns
3. It is allowed to play a card that has the same suit or the same value as the previous one
4. If you don't have the same suit, you must take a card from the deck. Exception: If you have Ober (or Queen), you can play it anytime and change the suit to whatever you want
5. If you play Ace, the opponent must also play Ace or pass their turn.
6. If you play Seven, the opponent must also play seven or take two cards. The penalty doubles each time seven is played.

### Control

The default view is the "table". It shows and reads back the last card, number of cards you and your opponent have. To repeat this information, press the right action button. Press the confirm button to open a menu with cards that you can play. Depending on the state of the game, there may also be other actions available, namely, Take a card, Pass or Take penalty.

## Memory game

The Memory Game is a sound version of the classical memory game (also known as Pexeso). When a new game starts, select the sound theme of the sounds.

## Gameplay

There is a grid of 12 cards and each of the cards is assigned to one of the keys 1-9, asterisk, zero, and hash. Your goal is to find all matching pairs of cards that have the same sound. To play, first, flip a card by pressing the respective number. Listen to the sound and try to memorize it. Then flip another card that you suspect might contain the same sound. You will hear the sound of the second card. If the sounds match, the pair of cards will be removed, if not, the cards will stay in place.

Continue until there are no cards left. The goal is to memorize the sounds and use as few guesses as possible.

## Vision aids

### Illumination sensor

The Illumination sensor application provides information about illumination intensity around the phone. Press the confirm button to announce the current state of illumination.

### Magnifying glass

The Magnifying glass application allows you to zoom objects.

- To zoom in on the object, point the phone's camera toward the object. To zoom in, press the down button. To zoom out, press the up button.
- Press the confirm button to open a menu with the following options: Turn screen pause on/off, Turn inverse color on/off, Turn flashlight on/off.

### NFC object tagging

The NFC object tagging application helps to identify objects that are otherwise hard to tell apart by touch - like bags or boxes with spices, cosmetic and household cleaning products, bottles, cans, and so on. Simply place the NFC tag sticker on the object and scan it with the phone.

This function requires NFC tag stickers which are included in the phone's package. Stickers can be also purchased separately from your BlindShell distributor.

### Tag an object

- To tag an object, place the NFC tag sticker on the desired object.

- Select the Add tag menu item and bring the tag close to the back of the phone. Then type or record object description.

## **Read object tag**

To read a tag, select the Read tags menu item and touch the tag to the back of the phone.

## **Edit object tag**

To edit or remove an object tag, select the tag in the Tags list.

## **Beepers**

Beepers help to find personal objects such as keys, bags, wallets, apparel, etc. Simply place the beeper on the object and use the BlindShell phone to ring the beeper in case of need.

This function requires the beeper device. The beeper can be purchased separately from your BlindShell distributor. To turn on the beeper for the first time (or after inserting a battery), long press the button on the beeper. The beeper beeps multiple times when turned on. To set up the beeper, open the Beepers application on the BlindShell phone. Use this app to find the beeper or edit its properties.

### **Add (pair) the beeper**

To pair the beeper with the phone, select the Add beeper menu item. Then press the button on the beeper repeatedly. When the beeper connects to the phone, you will be prompted to enter a custom name for the beeper.

### **Find (ring) the beeper**

To ring the beeper from the phone, select the Find beeper menu item and select the beeper from the list. When the phone connects to the beeper, the beeper starts ringing. To stop the ringing, press the confirm button.

### **Edit the beeper**

To delete (unpair) the beeper or edit its name, select the Beepers list menu item and select the beeper from the list.



## Color indicator

The Color indicator application allows detecting the colors of objects. It uses the camera of the phone which is located on the rear side of the phone, above the SOS button. To detect the color, point the camera to the object (approximately 10 centimeters far from it) and press the confirm button to announce the color.

Important notice: The Color indicator application is highly dependent on the ambient lighting and does not perform well in low-light conditions. In these conditions, the result of the color indications may not correspond to reality.

Tip: To increase the accuracy repeat the process several times and pick the color which was announced in the majority of the detection.

## Localization

The Localization application aggregates data from GPS, WiFi networks, and mobile networks to estimate the nearest physical address in the current vicinity. The whole process of estimating the location may take up to 30 seconds.

To send the estimated location via SMS message, move through the list of obtained information and select the Send message with position item.

Important notice: The accuracy of the location estimation may vary. You should not rely on the result absolutely, but take the accuracy into account.

Important notice: This function requires an internet connection.

## On-line

### Internet Browser

The Internet Browser allows browsing web pages.

#### Internet Browser menu

- To start browsing the Internet, select either the Insert URL or search menu item.
- To return to the menu while browsing, press the back button.
- To return to the already opened web page, select the Browse page menu item.
- To reload the page, go back or forward in browsing, select the Navigation menu item.

#### Browsing

- To navigate over the page elements, press the down or up button.
- To click on the focused element, press the confirm button.

To make browsing more effective, buttons of numeric keypad have the following functions:

- 1 - Switch to navigation by default elements.
- 2 - Switch to navigation by Headings.
- 3 - Switch to navigation by Controls.
- 4 - Switch to navigation by Links.
- 5 - Switch to navigation by Words.
- 6 - Switch to navigation by ARIA landmarks.
- 7 - Jump to the top of the page.
- 8 - Switch on/off automatic moving through elements.
- 9 - Jump to the bottom of the page.
- \* - Go back in browsing.
- 0 - Speak the title of the current page and navigation mode.
- # - Opens Help.

## Find in page

- To find text on the current page, select the Find in page menu item.
- To move through search results on the page, press the down or up button.
- To cancel search and move through default elements, press the number 1 button.

## Settings

- Earcon settings - sets which events will be announced by earcon (sound) while browsing a web page.
- Search engine - sets the search engine used when searching on the Internet.
- Show text overlay - shows transparent overlay over the page with the large text of the focused element.
- Private mode - when selected, visited pages will not be saved in the history.
- Use app for watching YouTube videos - when selected, YouTube videos will be opened in the BlindShell application.
- Clean up Browser files - deletes the cache and temporary browser files.

## BlindShell App Catalog

BlindShell App Catalog allows downloading and installing new applications to the phone, managing installed applications, and checking for their updates. The applications are represented as packages. The package may contain a set of multiple related apps or only one app can be included in the package.

## Browsing online catalog

- To browse the online catalog of packages, select the Browse catalog menu item.
- Select one of the following filters for browsing the catalog: recommended packages, search packages by name, browse packages recently added to the catalog, or browse all packages in the catalog without any filters.
- Select All categories menu item to browse packages regardless of the category or select a specific category to browse.
- To download and install the desired package, select the package and then select the Install package menu item.
- To get more information about the package, select the package and then select the Information about package menu item. It contains a description of the package, version information, the name of a category which package belongs in, and a list of included apps if there are more applications in the package.
- When the package is downloaded and installed, its applications can be found in the relevant category in the Applications of the phone.

Note: This function requires an internet connection.

## Managing installed packages

- To browse and manage packages installed on the phone, select the Installed packages menu item.
- Select the package to run the application, get package information, uninstall the package, or access advanced options of the package.
- Advanced options of the packages allow deleting temporary data of the package or deleting the application user's data.

Note: Preinstalled apps cannot be uninstalled but they may be deactivated in the Advanced options of the package. When the package is deactivated, it will not be shown in the Applications of the phone.

## Updating packages

- To check for updates of the packages or list recently updated packages, select the Update menu item.
- Packages are updated automatically by default. This can be changed in the Catalog settings.

## Catalog settings

The Catalog settings menu item allows changing the behavior of automatic updates and notifications related to the App Catalog.

## 4.6 Settings

### Sounds

#### Profiles

The Profiles menu item allows setting the sound profile used for incoming calls, messages, and other notifications. To quickly access these settings, long press the hash button.

The following profiles are available:

- Ringtone and vibrations.
- Vibration only.
- Ringtone without vibrations.
- Silent without vibrations.
- Airplane mode - suspends phone's radio-frequency signal transmission technologies (Bluetooth, telephony, and Wi-Fi).

#### Volume

The Volume menu item allows setting the volume level for incoming calls, notifications, alarms, and the phone's sound feedback.

#### Melodies

The Melodies menu item allows setting a melody for incoming calls, notifications, and alarms. To set a custom melody, copy the melody file to the phone's internal storage. For ringtones use the Ringtones folder, for notifications use the Notifications folder, and for alarm use the Alarms folder.

#### Voice output

The Voice output menu item allows setting the properties of the phone's voice output. The following properties can be changed or set:

- Speech rate.
- Voice variant.
- Speak date and time - when set, date and time is announced every time the phone is unlocked.

- Incoming call caller announcement - when set, caller name is announced automatically during incoming call. Otherwise, press the right action button to announce the caller's name.
- Locked keyboard announcement - when set, the phone announces that it is locked when any key is pressed multiple times when the phone is locked.
- Menu position indication - when set, voice output is supplemented by information about the current position in a menu and menu items count (e.g., "two of five")

## Feedback

The Feedback menu item allows setting the additional feedback of sound and vibrations. This feedback supplements the voice output while operating the phone.

## Notification reminder

The Notification reminder menu item allows setting a reminder of missed notification. When there is any new missed notification, the phone plays a soft beep every five minutes. This periodic beeping dismisses when the new missed event is checked.

## Automatic speakerphone

The Automatic speakerphone menu item allows turning on or off automatic speakerphone during a phone call. When turned on, voice output automatically switches to a loudspeaker when the phone is moved away from the ear during a phone call.

## Keyboard

### Keypad lock

The Keypad lock menu item allows setting the keypad lock. The keypad lock is intended to prevent unwanted presses of the phone's keys. The following options are available:

- Manual keypad lock - the keypad can be locked only manually by long-pressing the asterisk key. To unlock the keypad, long press the asterisk key.
- Automatic or manual keypad lock - the keypad is locked automatically after the screen timeout time or manually by long-pressing the asterisk key.
- No keypad lock - the keypad lock is disabled.

Tip: To read back the current time when the keypad is locked, press the confirm button. The keypad remains locked.

## Reading during deleting characters

The Reading during deleting characters menu item allows setting what is announced while deleting characters in a text input. The following options are available:

- Read the last remaining character after deletion.
- Read deleted character.

## Repeating during writing characters

The Repeating during writing characters menu item allows setting the repeating of written text during text input. The following options are available:

- Repeat word after you write space.
- Repeat the whole text after you write space.
- Don't repeat.

## Capital letters signaling

The Capital letters signaling menu item allows setting how capital letters are signaled in a text input. The following options are available:

- Signal verbally - announces "capital" when typing capital letters.
- Signal with higher-pitched voice - changes the pitch of voice output when typing capital letters.
- Don't signal - signaling of capital letters is disabled.

## Display

### Brightness setting

The Brightness setting menu item allows changing the display brightness. A higher level means a brighter screen but shorter battery life.

### Screen timeout

The Screen timeout menu item allows setting a period of inactivity. After this period, the phone goes into sleep mode to save battery power. To wake up the phone from sleep mode, press any key. When the automatic keypad lock is enabled, the phone keypad is also locked. In this case, long press the asterisk button to unlock the keypad.

## Color scheme

The Color scheme menu item allows selecting different color schemes of the phone's environment. The first color denotes the text color, the second is the background color. The following options are available:

- White on black.
- Black on white.
- White on blue.
- Black on yellow.

## Main menu style

The Main menu style menu item allows changing the graphic appearance of the main menu. The following options are available:

- Icons and text.
- Only text.
- Icons only.

## Text size

The Text size menu item allows changing the font size used in the phone's environment. The following options are available:

- Normal text size.
- Huge text size - this option may break the word wrapping, and a single word may occupy multiple lines.

## Networks

### WiFi

The WiFi menu item allows connecting to a WiFi network.

- To enable WiFi connection, select the Enable WiFi menu item.
- To connect to a WiFi network, select the WiFi network in the Network list and then select Connect to network. If the WiFi network is protected by a password, enter the password.

- To connect to a WiFi network using the WPS button, select the WiFi network in the Network list and then select Connect with the WPS push button. Then press the WPS button on the router device.
- To connect to a hidden WiFi network, select the Connect to hidden network menu item. Then enter the SSID (name) and password.

## WiFi connection via text file

WiFi connection can be established using a text file stored in the phone's internal storage.

- Copy a text file named wifi.txt to the root folder of the phone's internal storage.
- Write the name of the WiFi network on the first line of the file.
- Write the network password on the second line of the file.
- The password in the file will be automatically used when connecting to this specified network.

## Bluetooth

The Bluetooth menu item allows connecting and managing Bluetooth devices.

### How to pair a new device

- Enable the pairing mode on the Bluetooth device. Some devices are in the pairing mode by default when turned on and out of signal. Other devices have a special key or combination of keys that will trigger the pairing mode. This is device-specific and can be found in the manual of the device.
- Turn on Bluetooth and select the Scan for devices option. The scan may take up to half a minute, then the nearby devices are listed.
- To pair a device, select the device in the list. Pairing may take a few seconds.
- Some devices may require entering a verification code. In this case, enter a code provided by the BlindShell phone to the external Bluetooth device.
- To unpair a device, select the device in the Paired devices list and select Unpair device.

### Connecting and disconnecting a device

A newly paired device is usually connected automatically. To connect (or disconnect) a device manually, select the device in the Paired devices list and select Connect device (or Disconnect device).



## Important notice:

- Before you can connect a paired device, you usually need to turn it on by a switch on the device. Some devices may turn themselves off after a period of inactivity.
- There are a vast number of Bluetooth devices on the market. BlindShell cannot guarantee compatibility with every device available. Your BlindShell vendor might be able to give you advice or offer you a tested model.
- Due to possible radio interference and due to the nature of the Bluetooth protocol itself, there is no guarantee that a device will be found during the scan procedure. If the device is not listed or cannot be paired, make sure it is still in the pairing mode and then try the procedure again. If the problem persists, make sure there is no strong source of interference in your area, like another Bluetooth device, a WiFi router, or other radio devices.

## Connection test

The Connection test menu item runs an internet connection test. The result provides information about internet connection quality and BlindShell server availability.

## Mobile data

The Mobile data menu item allows turning on and off mobile data.

Note: This menu item is available only when a SIM card is present in the phone.

## Pin code

The Pin code menu item allows activating, deactivating, or changing the PIN code. When enabled, the PIN code is requested at the phone startup.

Important notice: If you enter the PIN code incorrectly three times in a row, your SIM card will be temporarily blocked and a PUK code will be requested. If you enter the PUK code incorrectly ten times in a row, your SIM card will be blocked permanently.

Note: This menu item is available only when a SIM card is present in the phone.

## SIM cards

The SIM cards menu item allows managing preferred SIM cards for outgoing calls, outgoing messages, or data transfers.

Note: This menu item is available only when two SIM cards are present in the phone.

## Favorite applications

The Favorite applications menu item allows managing the list of favorite applications. This list is quickly accessible by pressing the side action button. To add an app

to favorites, select the Add favorite application menu item. To remove an app from favorites or change its position in the list, select the application by pressing the confirm button.

## **Date, time and time zone**

The Date, time and time zone menu item allows turning on and off automatic time and date, changing time format and time zone.

- To enable automatic time and date, select the Time and date menu item. When enabled, time and date are automatically set from the network. The SIM card has to be present on the phone.
- To manually set the time and date, disable automatic time and date first.

## **Language**

The Language menu item allows changing the default language of the phone.

## **BlindShell update**

The BlindShell update menu item allows updating the phone's software. The updates bring new features, enhance current features, and fix bugs. A new update is announced via notification.

To manually check for updates, select the Check for update menu item. If an update is available, select Download update and then Install update. To install an update, an internet connection via WiFi is required.

Important notice:

- The update process takes several minutes. You will be informed about the progress of the update. During the update, the phone speaks in a robotic voice.
- Do not turn off your phone or do other actions with your phone during the update process. Doing so might result in damaging the phone's software, making it necessary to send the phone for repair.

## **About phone**

The About phone menu item provides technical information about the phone such as software version and storage usage. Also allows access to a Service menu with a factory reset and backup option.

## Service menu

The service menu is a feature that simplifies certain service operations. For the service menu, the phone has to reboot in a special mode, outside of the ordinary operating system. The service menu is not a part of the BlindShell system and receiving calls and other standard phone functions are not available. To leave the Service menu, select the Restart phone menu item.

## Backup data

The Backup data function will create a file containing internal user data. The backup function does not save data stored on an SD memory card if present.

- To backup data, insert an SD memory card or USB C flash drive into the phone. If both are present, the backup file will be saved on the SD memory card.
- Select the Backup data menu item.
- Select backup type, following options are available: Full backup will save users preferences of applications and phone settings, including media stored in the internal storage of the phone. Full backup without media does the same excluding media stored in the internal storage of the phone.
- The backup file will be generated with the timestamp and the ".backup" extension.

## Restore data

The Restore data function allows restoring user data from a backup file previously created using the Backup data function. The backup file has to be stored on an SD memory card or USB C flash drive inserted in the phone.

Important notice: Your data will be overwritten by the Restore data operation.

## Factory reset

The Factory reset menu item will perform a so-called factory reset of the phone. During this operation, all user data will be wiped and the phone will return to its original state.

## 4.7 Manual

The Manual menu item contains this document structured in sections.

## 4.8 Turn off the phone

The Turn off the phone menu item will turn off the phone. The confirmation of this action is required.

## **4.9 Missed notifications and information about phone status**

To show status information about the phone, press the left action button. This action is available anytime while using the phone. The list contains the following information:

- Notifications - select to list missed notifications.
- Current time and date - select to open the Calendar application.
- WiFi state - select to open WiFi settings.
- Network state - select to turn on/off mobile data.
- Battery state.
- Bluetooth state - select to open Bluetooth settings.

## **4.10 Favorite applications**

To quickly access favorite applications, press the side action button. This opens a customizable list of applications that have been added to favorites. To add an app to favorites, select the Add favorite application menu item. For further adjustments, such as ordering the applications in the list, go to the phone's settings.

# 5 Technical specification

## 5.1 Connectivity

- GSM (2G): 850/900/1800/1900 MHz
- WCDMA (3G): B1/B2/B4/B5/B8
- FDD-LTE (4G): B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B25/B26/B28/B66/B71
- TDD-LTE (4G): B38/B40/B41
- VoLTE
- Bluetooth: 4.2
- WiFi: 2.4 GHz + 5 GHz (802.11 a/b/g/n/ac)
- GNSS: GPS, Galileo, GLONASS, BeiDou
- FM radio receiver
- NFC

## 5.2 Hardware

- Dimensions: 135.2 x 54.6 x 16.7 mm
- Weight: 100 g (phone), 49 g (battery)
- Display: 2.83" (480 x 640)
- Memory (RAM): 2 GB
- Internal storage: 16 GB
- External storage: micro SD memory card up to 128 GB (FAT32)
- Camera: 13 MP
- SIM Card: Dual micro-SIM
- Battery: 3000 mAh
- Loudspeaker: 1.5 W
- Microphone: Dual microphone, noise reduction
- 3.5 stereo audio jack
- USB Type-C
- Buttons: SOS, Volume, Side action button
- Indication LED
- Camera LED flashlight
- LED flashlight

## 5.3 Sensors

- Magnetometer
- Barometer
- Accelerometer

- Gyroscope
- Proximity sensor

## **5.4 Certifications**

- CE, FCC, IC, ICASA, ACMA, RoHS, HAC, UN38.3, MSDS, IEC 62133
- HAC: M3/T3

## 6 Regular use and safety information

### Personal use

- Do not disassemble the phone. The only removable parts of the phone are the back cover and the battery. No tools are necessary to access the battery compartment. Disassembling the phone will void its warranty.
- Use the phone for its intended use only and only according to its user manual. The manufacturer is not liable for any damage caused to the phone or the environment as a result of misuse.
- Do not use a damaged phone. Before each using the phone please check that it is intact. Using a damaged phone may lead to injury or further damage. Please contact your distributor for in and out of warranty repairs.
- Switch the phone off when mobile phone use is not allowed or when it may cause interference or danger. Please obey all instructions in restricted areas.
- The manufacturer cannot guarantee correct operation of the phone when other than original accessories are used. If you decide to use other than the original accessories, please consult this first with your distributor.
- To prevent possible hearing damage, do not listen at high volume levels for long periods of time. The loudspeaker and earpiece of the phone are very loud. Please take extra care when using the highest volume, especially when the phone is close to your ears.
- Make sure that you can hear ambient sounds when commuting with earphones. This can put you into potentially dangerous situations in traffic.
- The phone is not water or dust resistant, keep it dry. Prevent any contact with liquid.
- Do not use the phone in dusty, smoky, or damp environments, or near magnetic fields. Dirt or moisture can get inside the phone which can potentially damage it.
- Keep the phone away from heat sources and out of direct sunlight. Do not leave your phone inside a vehicle or in places where the temperature may exceed 113° F (45° C).
- Do not use the phone while driving, riding a bicycle, or other vehicle. Always obey local laws regarding the use of mobile devices.
- Do not place the phone or any of its accessories in a microwave oven.
- Do not place the phone near credit cards or other storage devices carrying information on magnetic strips. The phone's speaker contains a magnet which can erase information on magnetic storage media.

### Battery and charging

- Try to keep the battery between 41°F and 86°F (5°C and 30°C) for optimal performance. Short exposures to warmer or colder temperatures will not damage the battery, but extended periods of exposure to extreme temperatures will reduce the capacity and lifetime of the battery.
- Switch the phone off and remove its battery when the phone is not used for long periods of time. Ideally the battery should be charged at about 60% when stored. This will prolong the battery life and preserve its maximal capacity.
- Do not dismantle, cut, crush, bend, puncture, or otherwise damage the battery in any way. The battery may catch on fire if damaged. This is not very likely, but it is possible. Please keep in mind that the battery is the most dangerous part of the phone.
- Do not attempt to repair or modify the battery. This may lead to a damage of the battery, which can cause a fire or an explosion.
- Never use a damaged battery, charger, or charging cable. The battery or charger may catch on fire, or may cause an electric shock.
- Only use the original battery, and only use the original battery for powering the phone it is intended for. The battery is designed exclusively for this specific device. Other batteries may not fit well, or have different properties and they could damage your phone.
- All batteries have limited lifespan and will experience drop in capacity after a few hundred charging cycles.
- The power adapter is intended for indoor use only.
- When disconnecting the power adapter from a power outlet, pull on the adapter, never on the cable.
- Unplug the power adapter from a power outlet when not in use.
- Never handle the adapter with wet hands.

## **Recycling**

Always return your used electronic products, batteries, and packaging materials to dedicated collection points. Do not dispose of these products as unsorted municipal waste. If you are not certain how to dispose of your phone, its accessories, or its packaging please contact your distributor.

## **Small children and animals**

Keep the phone and its accessories away from small children and animals. Your phone contains (or comes with) small parts, plastic elements, and parts with sharp edges that may cause an injury or create a choking hazard.



## Interference with medical devices

- Operation of radio transmitting equipment, including wireless phones, may interfere with inadequately shielded medical devices' function. Consult a physician or the medical device's manufacturer to determine if it is adequately shielded from external radio energy.
- To avoid potential interference, manufacturers of implanted medical devices recommend a minimum separation of 15.3 centimeters (6 inches) between a wireless device and the medical device. Persons who have such devices should:
  - Always keep the wireless device more than 15.3 centimeters (6 inches) from the medical device.
  - Not carry the wireless device in a breast pocket.
  - Hold the wireless device to the ear opposite the medical device.
  - Switch the wireless device off if there is any reason to suspect that interference is taking place.
  - Follow the manufacturer's directions for the implanted medical device.
  - If you have any questions about using your wireless device with an implanted medical device, consult your healthcare provider.

## SAR ratings

- The phone is classified for use in a typical domestic environment.
- The highest Specific Absorption Rate (SAR) value reported for the phone according to CE standard when tested at the head is 0,623 W/kg (10g), and when properly worn on the body is 1,474 W/kg (10g). The minimum distance for body-worn operation is 5mm.
- The highest Specific Absorption Rate (SAR) value reported for the phone according to FCC/ISED standard when tested at the head is 0,988 W/kg (1g), and when properly worn on the body is 1,286 W/kg (1g). The minimum distance for body-worn operation is 10mm.

## Software and services' availability

The software of the phone is offered as is, with all its possible faults. The manufacturer makes no claims, promises, or guarantees about the accuracy, completeness, or adequacy of the contents provided by the phone, and expressly disclaims liability for errors and omissions presented by the phone.

- Some applications require internet connection to operate properly.
- At times some services may be unavailable due to server downtimes or because of unavailability of third party services.

- Information provided by the phone may not always be accurate (e.g. location, color recognition results, weather information, etc.).
- The manufacturer is in no way responsible for content of third parties presented by the phone's applications.
- The software is continuously updated. The manufacturer reserves the right to adjust the software or contents of the user manual without prior notice.

## **When in doubt contact the distributor**

If you have any questions, concerns, or encounter a situation where you need assistance, please contact the distributor from which you have purchased the phone. You may also contact the manufacturer of the phone directly via an email at [\*\*info@blindshell.com\*\*](mailto:info@blindshell.com).

# 7 Regulatory information

## Regulatory information - United States

FCC ID: 2ATXD-BS-02

### FCC RF exposure information

In August 1986 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

### Body worn operation

This device was tested for typical body-worn operations with the back/front of the phone kept 10mm from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 10mm must be maintained between the user's body and the back/front of the phone, including the antenna. Third-party belt-clips, holsters and similar accessories containing metallic components shall not be used. Body-worn accessories that cannot maintain 10mm separation distance between the user's body and the back/front of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided. For more information about RF exposure, please visit the FCC website at [www.fcc.gov](http://www.fcc.gov) Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. In August, 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

- ANSIC95.1 (1992)
- NCRP Report 86 (1986)
- ICNIRP (1999)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1). Nevertheless, we recommend that you use a hands-free kit with your phone (such as an earpiece or headset) to avoid potential exposure to RF energy. The design of your phone complies with the FCC guidelines (and those standards).

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

## Normal position

Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

## RF Exposure Information:

This product is compliance to FCC RF Exposure requirements and refers to FCC website <https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm> search for FCC ID: 2ATXD-BS-02 to gain further information includes SAR Values.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Do not use the device with the environment which below minimum  $-10^{\circ}\text{C}$  or over maximum  $50^{\circ}\text{C}$ , the device may not work.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Ad Hoc function is supported but not able to operate on non-US frequencies.

Operation of this device is restricted to indoor use only. (W52 band)

## Hearing aid compatibility (HAC)

Your phone is compliant with the FCC Hearing Aid Compatibility requirements.

The FCC has adopted HAC rules for digital wireless phones. These rules require certain phones to be tested and rated under the American National Standard Institute (ANSI) C63.19-2011 hearing aid compatibility standards. The ANSI standard for hearing aid compatibility contains two types of ratings:

- M-Ratings: Rating for less radio frequency interference to enable acoustic coupling with hearing aids.
- T-Ratings: Rating for inductive coupling with hearing aids in telecoil mode.

A phone is considered hearing aid compatible under FCC rules if it is rated M3 or M4 for acoustic coupling and T3 or T4 for inductive coupling. These ratings are given on a scale from one to four, where four is the most compatible. Your phone meets the M3/T3 level rating.

However, hearing aid compatibility ratings don't guarantee that interference to your hearing aids won't happen. Results will vary, depending on the level of immunity of your hearing device and the degree of your hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids. It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. For more information about FCC Hearing Aid Compatibility, please go to <http://www.fcc.gov/cgb/dro>.

## **Regulatory information - Canada**

IC: 25259-BS02

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

## **Body worn operation**

This device at operating duty factors of up to 63.3% was tested for typical body-worn operations with the back of the phone kept 10mm from the body. To comply with RSS102 requirements, a minimum separation distance of 10mm must be maintained between the user's body and the back of the phone, including the antenna. Third-party belt-clips, holsters and similar accessories containing metallic components shall not be used. Body-worn accessories that cannot maintain 10mm separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with RSS 102 limits and should be avoided. Operation of this device is restricted to indoor use only. (W52 band)

## **Regulatory information - EU**

### **Simplified Declaration of Conformity**

Hereby, Matapo a.s. declares that the radio equipment type mobile phone is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address: [www.blindshell.com/conformity](http://www.blindshell.com/conformity)

### **Information on disposal for users of WEEE**

This symbol on the product and / or accompanying documents means that used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge. Alternatively, in some countries, you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

## Restrictions in 5GHz band

The device is restricted for indoor use only when operating in the range from 5.15GHz to 5.35GHz in following countries:

AT, BE, BG, CY, CZ, DE, DK, EE, EL, ES, FI, FR, HR, HU, IE, IT, LV, LT, LU, MT, NL, PL, PT, RO, SK, SI, SE, UK

## Frequency bands and power

According to the Radio Equipment Directive (RED) 2014/53/EU the maximum output power of the equipment is following:

- GSM - 900MHz: 33,72dBm; 1800MHz: 29,8dBm
- WCDMA - B1: 22,72dBm; B2: 23,32dBm
- LTE-FDD - B1: 23,22dBm; B3: 23,81dBm; B7: 23,38dBm; B8: 23,52dBm; B20: 23,42dBm; B28: 23,7dBm
- LTE-TDD - B38: 23,6dBm; B40: 23,59dBm; B41: 23,82dBm;
- Bluetooth - BR/EDR: 6,01dBm; BLE: 5,15dBm
- 2.4GHz WIFI - 11b: 15,45dBm; 11g: 14,03dBm; 11n(20): 13,44dBm; 11n(40): 14,17dBm
- 5GHz WIFI - 5,2GHz: 17,68dBm; 5,8GHz: 16,03dBm
- NFC: 0,000000261mW

## Regulatory information - South Africa

### Declaration of conformity

This device complies with ICASA standard(s). The full text of the declaration of conformity can be found online at following internet address: [www.blindshell.com/conformity](http://www.blindshell.com/conformity)

## **Regulatory information - Australia & New Zealand**

### **Declaration of conformity**

This device complies with ACMA standard(s). The full text of the declaration of conformity can be found online at following internet address: [www.blindshell.com/conformity](http://www.blindshell.com/conformity)



## 8 Legal information

### Limited warranty

The phone is covered by limited warranty. The warranty period is following in

- United States, Canada: twelve (12) months;
- European Union, South Africa, United Kingdom, Australia, New Zealand: twenty-four (24) months.

Please confirm the warranty period for countries and/or regions not listed in this document with your distributor.

The minimal life of a battery is 12 months. During this period only a minor decrease in its capacity should occur. After this period any decrease in its capacity or loss of function is considered to be caused by a common wear. The limited warranty starts at the day of purchase of the product by the first end user. The limited warranty covers defects in material and workmanship. All other warranties, express or implied are disclaimed.

No warranty is granted, regardless of malfunction encountered, in the following cases:

- Normal wear and tear of the product and reduction in the battery charge by its use.
- Damage resulting from improper use, exposure to humidity, or liquid, or heat source.
- Damage resulting from using accessories or connectors not supplied by the manufacturer.
- Damage caused by dropping the device or caused by applying excessive pressure, which results in cracks or breaking of parts of the device.
- Failure to respect the information provided in the Safety, Regulatory and Legal Information document.
- Damage caused by using an unoriginal battery, or using the BlindShell battery in another device.
- Damage resulting from an attempted repair done by unauthorized personnel.

This limited warranty does not cover any network service malfunctions, such as mobile or wifi network outages.

The software of the device is offered as is, with all its possible faults.

We recommend backing up the user data at least once a month to prevent any unwanted data loss. The manufacturer is not responsible for data loss because of a device malfunction, repair or replacement of the device.

## **Limits of the manufacturer's liability**

The warranty described herein sets out the full extent of Matapo's responsibilities, and the exclusive remedy regarding the product. In no event will Matapo be liable for damages in excess of the purchase price of the product or for, without limitation, commercial loss of any sort; loss of use, time, data, reputation, opportunity, goodwill, profits or savings; inconvenience; or incidental, special, consequential or punitive damages.

Matapo's authorized distributors bear no responsibility or liability associated with the use or misuse of the device.

## **Dispute resolution - U.S. and its territories only**

This document herein constitutes a binding legal agreement ("agreement") between you (either an individual or an entity) and Matapo. Opening the product packaging, use of the product or retention of the product constitutes acceptance of this agreement, regardless of whether you are the original purchaser, user, or other recipient of the product.

You and Matapo each agree that all disputes arising in any way from this limited warranty, or the sale condition, or performance of the product shall be resolved exclusively through final and binding arbitration, and not by a court or a jury. Any such dispute shall not be combined or consolidated with a dispute involving any other person's or entity's product or claim, and specifically, without limitation of the foregoing, shall not under any circumstances proceed as part of a class action. The arbitration shall be conducted before a single arbitrator, whose award may not exceed, in form or amount, the relief allowed by the applicable law.

The arbitration shall be conducted according to the American Arbitration Association (AAA) Commercial Arbitration Rules applicable to consumer disputes. The AAA Rules are available online at [adr.org](http://adr.org) or by calling the AAA at 1-800-778-7879. This arbitration provision is entered pursuant to the Federal Arbitration Act. The laws of the State of New York, without reference to its choice of laws principles, shall govern the interpretation of the Limited Warranty and all disputes that are subject to this arbitration provision. The arbitrator shall decide all issues of interpretation and application of this arbitration provision and the Limited Warranty.

For any arbitration in which your total damage claims, exclusive of attorney fees and expert witness fees, are \$5,000.00 or less ("Small Claim"), the arbitrator may, if you prevail, award your reasonable attorney fees, expert witness fees and costs as part of any award, but may not grant Matapo its attorney fees, expert witness fees or costs unless it is determined that the claim was brought in bad faith. In a Small Claim case, you shall be required to pay no more than half of the total administrative, facility and arbitrator fees, or \$50.00 of such fees, whichever is less, and Matapo shall pay the remainder of such fees. Administrative, facility and arbitrator fees for arbitrations in which your total damage claims, exclusive of attorney fees and expert witness fees,

exceed \$5,000.00 (“Large Claim”) shall be determined according to AAA rules. In a Large Claim case, the arbitrator may grant to the prevailing party, or apportion among the parties, reasonable attorney fees, expert witness fees and costs to the extent allowed by the applicable law. Judgment may be entered on the arbitrator’s award in any court of competent jurisdiction.

You may opt out of this dispute resolution procedure by providing notice to Matapo no later than 30 calendar days from the date of the first consumer purchaser’s purchase of the Product. To opt out, you must send notice by e-mail to **info@blindshell.com**, with the subject line: “Arbitration Opt Out.” In the opt out email you must include following information:

1. your name and address;
2. the date on which the Product was purchased;
3. the Product model name or model number; and
4. the IMEI which can be found
  - on the Product box;
  - on a label on the back of the product beneath the battery.

This is the only form of notice that will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the benefits of the Limited Warranty.