

EasyMobile



The Easy Mobile app and Push Button turn your Android device into a simple, easy-to-use mobile phone.



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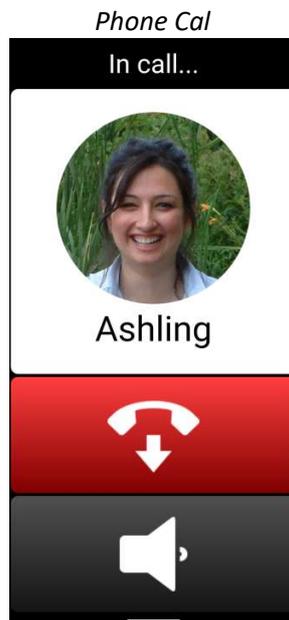
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1 Introduction

Easy Mobile overcomes the complexity of modern mobile phones by combining the Phone, Contacts and Home Screen functions into a single easy-to-use app. It is ideal for elderly people and those with physical disabilities and/or cognitive issues whose primary need is to make and receive phone calls.

For persons who cannot always hold their device a Push Button can be programmed to answer a call, dial a close contact, look at pictures and other basic actions.

Easy Mobile Screenshots



Easy Mobile Push Buttons

Standard Button



Large Circular



Small Circular



2 Installing the App

The app is available on the Google Play store or directly from the product page:

<http://housemate.ie/easy-mobile-phone/>

If you intend to use an Easy Mobile push button or InfraRed interface please install the latest version directly from our website: <http://housemate.ie/wp-content/uploads/2017/02/EasyMobile.apk>

After installation you will be requested to accept the following permissions:

- Home Screen** If desired Easy Mobile can be set as the default home screen thereby greatly simplifying the user's device. System apps are only accessible through Easy Mobiles settings menu.
- Default Phone** Easy Mobile must be selected as the default phone in order to manage phone calls.
- Accessibility** Easy Mobile must be enabled as an accessibility service in order to function correctly. This service enables it to simulate touching the screen as well as other functions.
- Draw Overlays** Required to display an overlay during WhatsApp calls in order to simplify the user interface.
- Location** Easy Mobile uses Bluetooth low energy to scan for nearby push buttons. The Bluetooth low energy permission is bundled into the location permission. It is important that access is granted "All the time" so that Easy Mobile can scan in the background.
- Media** Required to display photos in the gallery part of the application.
- Notifications** In order to answer WhatsApp calls Easy Mobile must be able to monitor the incoming notifications.
- Screen Lock** If possible set the Screen Lock to none to avoid complications waking up the phone. If you cannot do this Easy Mobile must be chosen as the default home screen in order to wake up the phone correctly,

After you have accepted the necessary permissions you will be asked to restart your device.

3 Settings Menu & App Options

Settings Menu

Settings enable you to customize Easy Mobile to suit a particular user's needs and abilities. To access the settings menu click the  symbol in the status bar.



App Options Opens the Setup wizard to guide you through configuring the main functions and appearance of the Easy Mobile app.

Configure WhatsApp Opens the Setup wizard to guide you through configuring WhatsApp so that you can answer and make internet calls using Easy Mobile. This is covered in chapter 8.

Remote Control Opens the Setup wizard to guide you through programming an Easy Mobile Push Button or InfraRed interface. This is covered in chapter 6.

System Apps Access to the system apps, such Contacts or WhatsApp.

Phone Settings Access to the system settings.

SIP Account If your device supports SIP calls then choose the account you wish to use.

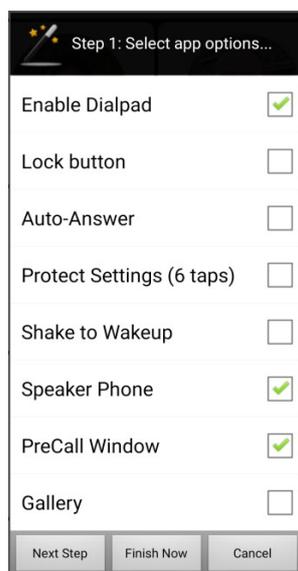
App Info Information about this app, website links, settings and uninstall procedure.

Quit Quit the app (if it is not the home app). Note that certain app services remain running in the background so that you can use a push button if programmed.

App Options

App Options is the primary method of configuring the basic functionality and appearance of Easy Mobile. To start configuring, choose App Options from the Settings menu.

Step 1: App Options

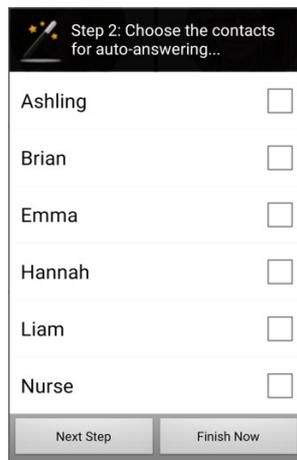


- Enable Dialer** Whether or not the **Dialer** button will appear in the homepage.
- Lock button** Whether or not the **Lock** button will appear in the homepage.
- Auto-Answer** Whether or not incoming calls will be automatically answered. The contacts that will be automatically answered are chosen in the next step.
- Protect Settings** The settings can be protected by enabling this option. When enabled 6 taps of the **Settings** symbol in the status will be required to open the settings.
- Shake to Wakeup** Use the accelerometer to detect when the device has been “shaken” and then wake up the phone. Overcomes the need to press the power-on button. If you select this option you can choose the “strength” of the shake required in a subsequent step.
- Speaker Phone** The normal behaviour of Easy Mobile is to use the speaker phone during calls. This is because it is expected that the phone will be mounted on a stand or at a distance from the user.
- Pre-Call Window** Whether or not the pre-call window is displayed after a contact has been chosen. Allows a user to confirm their choice, and if WhatsApp is installed, to decide between a voice or video call.

Gallery Whether or not to include access to the **Gallery** in the Easy Mobile home page.

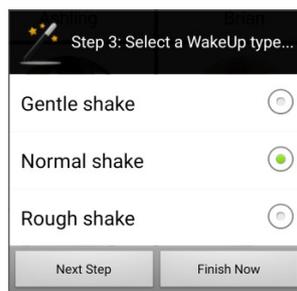
Step 2: Auto-Answer Contacts

If you enabled Auto-Answer in the first step you can choose which contacts Easy Mobile will automatically answer the phone too.



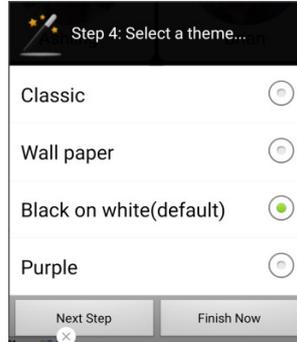
Step 3: Shake-to-wakeup

If you enabled Shake to Wakeup in the first step you can choose the “strength” of the shake required to wake up the phone.



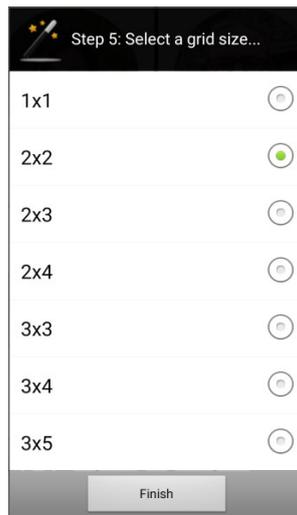
Step 4: Select a theme

The theme determines the colours and style used throughout the app.



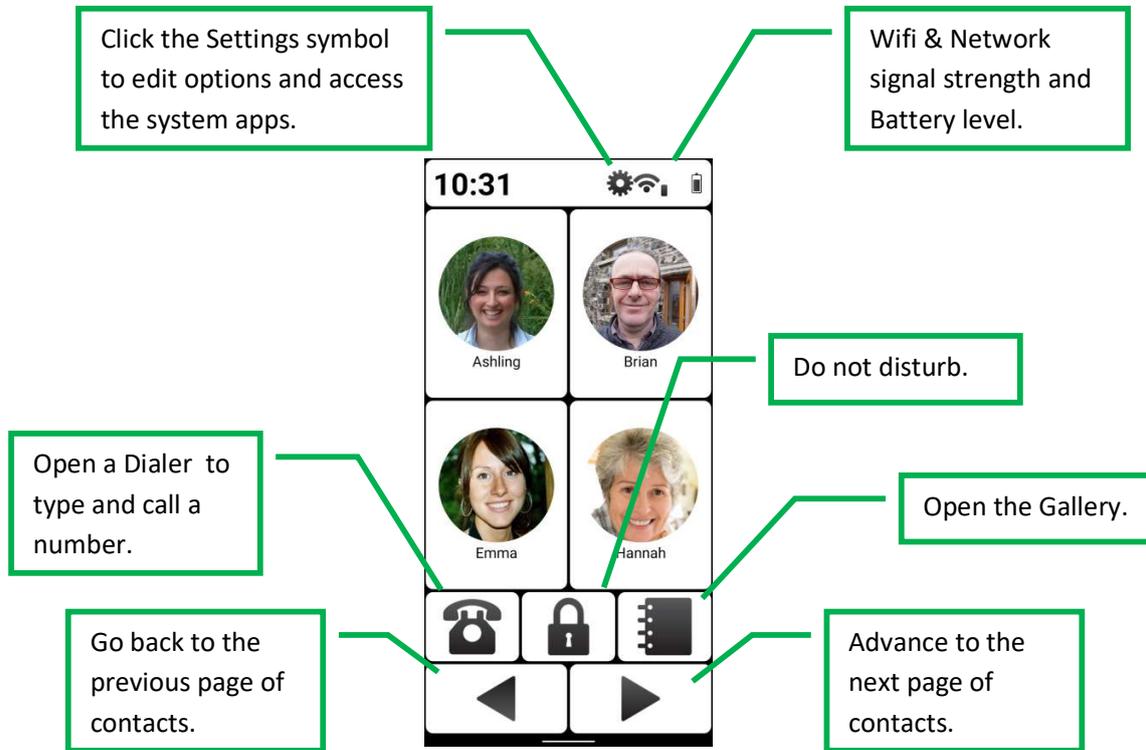
Step 5: Select a grid size

The contacts are displayed in a grid alphabetically. If possible choose a grid size that matches the number of contacts on the phone.



4 Home Screen & Navigation

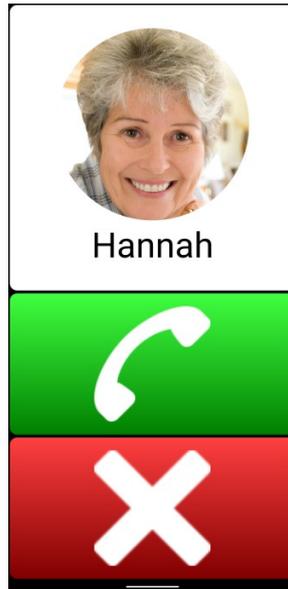
The Easy Mobile home screen with all wizard options selected and a 2x2 grid is shown below.



5 Making & Answering Calls

Outgoing Calls

If the **PreCall** option had been enabled, then, when you select a contact you will be presented with the PreCall window.



Confirm the call by pressing the green button or press the red button to cancel. When you make a selection the call will be made and the **InCall** window will appear.



Incoming Calls

Unless the phone has been locked, then, when you receive an incoming call the **Incoming Call** window is displayed



If auto-answer is enabled and the contact has been chosen for auto-answering, then, after a moment, the call will be automatically answered.

If you do not answer an incoming call the **Missed Call** window will be presented after the phone has stopped ringing.



6 Push Buttons & Programming

6.1 Push Button types

For persons who cannot always hold their device Push Buttons can be programmed to answer a call, dial a close contact, look at pictures and other basic tasks. The buttons are available in a variety of shapes with different target area sizes and operating force requirements.

Standard



Measuring 50x40mm and featuring a pocket to insert your own button label the standard version is supplied with a neck strap, belt clip and a long-life Lithium battery.

Small Circular



35mm in diameter and powered by a replaceable Lithium coin battery the Circular version can be supplied with a wrist strap in addition to the standard cord strap.

Large Circular



50mm in diameter this top of the range accessibility switch can be mounted on a suitable bracket for accurate positioning. It is also available with a fabric cover for attachment to a pillow or clothing.

Switch Input



Use your own accessibility switch such as a Buddy Button or Spec switch or fit the circuit board into your own OEM products.

6.2 Push Button LEDs & Battery testing

Each push button contains two LEDs. The red LED is used to indicate a low battery and the green LED is used to indicate Bluetooth activity.



Normal Operation

When you press your button the red LED should illuminate briefly whilst the green LED should remain on for approximately 1 second. If you hold your button the green LED will remain on as long as you are holding it. However, if you hold your button for longer than 15 seconds then both the red LED and green LED will start flashing rapidly and the button will enter a low power mode. This is to prevent a battery drain if the button or a connected accessibility switch has jammed.

Testing the Battery

To test the battery level press AND hold the button. If the battery level is sufficient the red LED will illuminate briefly and then go out. However, if it remains illuminated as you continue to hold the button then the battery is low and needs replacing. Note that the push button should continue to function with a low battery for a long period but only at close range.

The standard Push Button contains a long life CR2430 battery and under normal circumstances should only have to be replaced every 2-3 years.

The other button types contain a CR2016/CR2025 battery and are good for >50,000 button presses.

6.3 Programming a Push Button

Before you start ensure that your phone’s Bluetooth has been turned on and that a battery has been fitted to your Push Button (the green LED should illuminate when you press it).

Step 1: Program Push Button

To program it choose **Remote Control** from the **Settings** option in the menu bar. The **Setup Remote Control** wizard will guide you through the process.

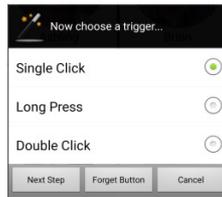


Choose **Push Button**, and, when you are ready, click **Continue** and then press your push button.



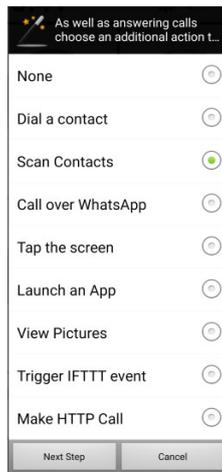
Step 2: Choose a Trigger

Having detected the button you must now choose what type of trigger you want to program. If you are only using 1 trigger per button then choose **Single Click** to always get the quickest response from your button. The length of the **Long Click** and the **Double Click** is set by the **Timebase** and can be adjusted in **Advanced Options** (see step 4 below).



Step 3: Choose an Action

Next choose the action you want triggered in addition to the default action of call management. If you only want to be able to answer and end calls you can select None.



None Only use the push button to answer and end calls.

Dial a contact Dial a specific contact. In the next step you will be asked to choose the contact to dial.

Scan contacts Allows you to choose which contact to call by scanning automatically through a selection of contacts. If you enable this option you will be asked to select which contacts you wish to scan. The scanning speed is set by the **Timebase** and can be adjusted in **Advanced Options** (see step 4).

Call over WhatsApp Call a contact over WhatsApp. In the next step you will be asked to choose the WhatsApp contact.

Tap the screen Execute a tap on the screen. In the next step you will be asked to tap on the screen where you want this to occur. One use of this action is to enable a user to choose a contact by setting the grid size to 1 and tapping on the Next Contact button. Use a different trigger to tap on the contact and call them. With assistance it could also be used to control certain aspects of other apps, for example turning the pages of a book reader app.

Launch an App Can be used to launch a simple app, for example the Clock App.

View Pictures Open the Gallery and browse the pictures using the Push Button. If the button is not pressed for 30 seconds the Gallery is closed.

Trigger IFTTT event It is beyond the scope of this user manual to explain IFTTT in detail but this action can be used to trigger IFTTT web hooks service.

Make HTTP call A beta feature for Smart Home engineers who wish to program a button to activate an environmental control function.

Step 4: Choose Advanced Options



Answering Calls By default, any trigger will answer a call if the phone is ringing or end a call if a call is ongoing. If you disable this option you must explicitly program a trigger for call management.

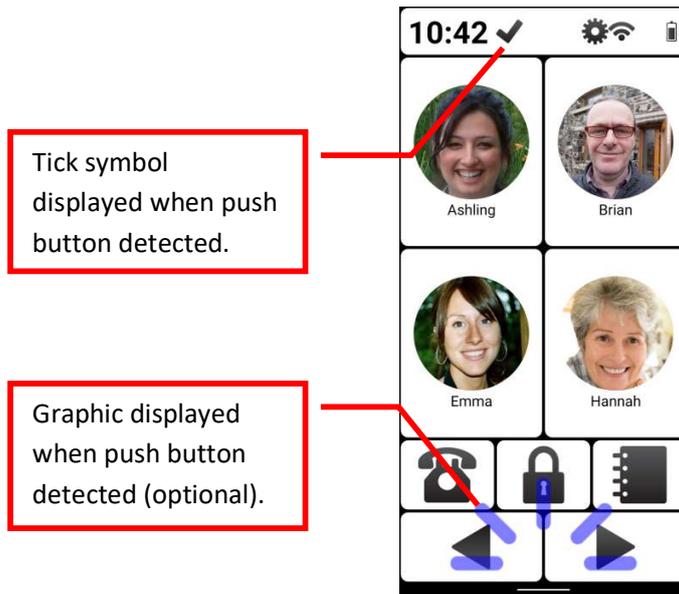
Show Feedback When enabled a graphic overlay is displayed at the bottom of the screen whenever your switch is detected.

Enable diagnostics Enabling this option forces a popup message whenever a trigger is detected.

Timebase The push button transmits like a radio beacon when it is pressed. If Easy Mobile does not detect a signal for longer than the timebase interval then it assumes that it has turned off and is ready to accept a new button press. The timebase also sets the **Double Click** (x2), **Long Click** (x4) and **Scanning Speed** (x4) intervals. For example, if the Timebase is set to 1 second, the Scanning Speed will be every 4 seconds.

Step 5: Test the Push Button

After programming, test your Push Button by pressing it. You should see a Tick symbol appear in the status bar and then disappear when the button turns off. If the **Show Feedback** option is enabled you will also see a graphic overlay at the bottom of the screen. This means that the Push Button was detected. Now try ringing the phone from another device and answering the call with the push button.



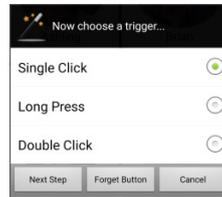
6.4 Un-Programming a Push Button

At some point you may wish to un-program a button and start over. To do this choose **Settings->Remote Control->Push Button** to start the **Program Push Button** wizard.



If you wish to erase all the programmings for this device then choose **Erase All**. This means that none of the buttons you have programmed with this device will operate it any longer.

If you wish to only erase the programming for a particular button then choose **Continue** and then press your button to identify it.



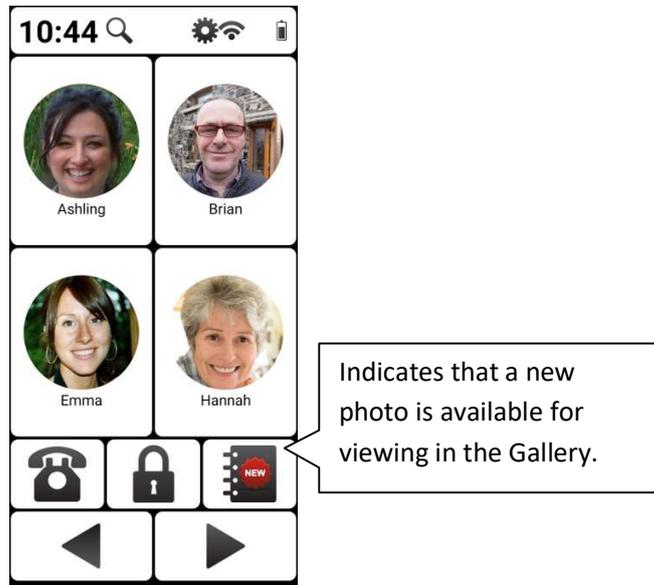
Once the button has been detected, instead of choosing a trigger, select **Forget Button** to erase the programming.

7 Gallery

Easy Mobile features a simplified Gallery app that allows a user to browse the photos on their phone using their Push Button or by selecting the Gallery icon from the Homepage.



A useful feature of WhatsApp is that photos you receive are automatically downloaded into your Gallery. This means that a contact can send photos to the Easy Mobile phone user. When a new photo is received a **New** badge is added to the Gallery button icon.



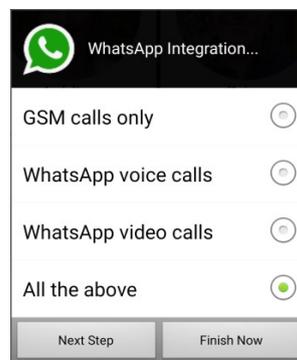
8 Integrating WhatsApp

In order to be able to answer and make WhatsApp voice and video calls Easy Mobile must record where on the screen the WhatsApp “Answer call” and “End call” buttons are. To be able to do this you will need a second device to hand. Before you start make sure that both devices have WhatsApp installed and that you can make a call using WhatsApp from one to the other and vice-versa.

8.1 Configuring WhatsApp

To begin the configuration, select **Configure WhatsApp** from the **Settings** option.

Step 1: Choose call types



GSM calls only Make ordinary mobile phone calls only. Any type of call can be answered.

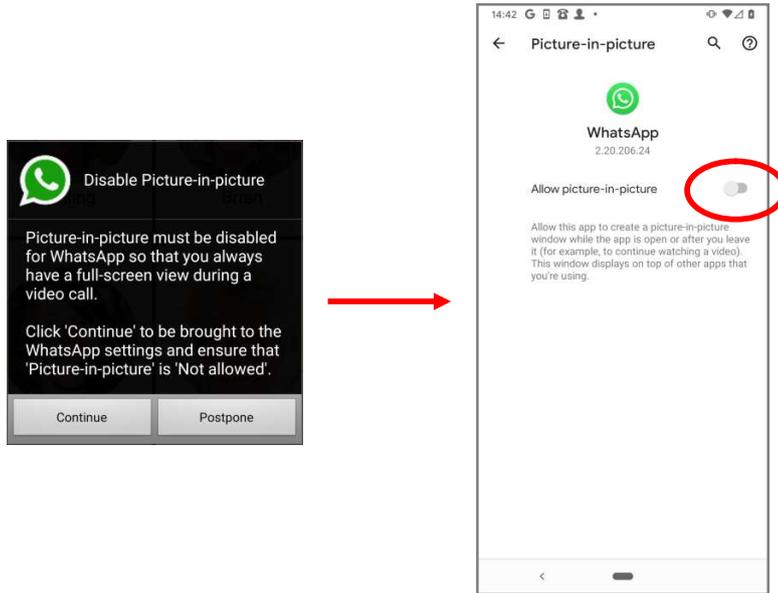
WhatsApp voice calls Make WhatsApp voice calls only. This option is useful if you are using a device, like a tablet, that does not have GSM. Any type of call can be answered.

WhatsApp video calls As above except for video.

All the above When you choose a contact select the type of call you want to make. Any type of call can be answered.

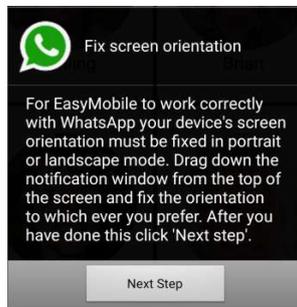
Step 2: Disable Picture-in-Picture

This feature must be disabled for WhatsApp. Click **Continue** and then disable **Allow picture-in-picture** within WhatsApp’s advanced permissions.



Step 3: Fix screen orientation

Easy Mobile records the gestures it needs to answer and end calls in one screen orientation. Make sure to fix the orientation of the phone in the way that it is going to be used, i.e. portrait or landscape.

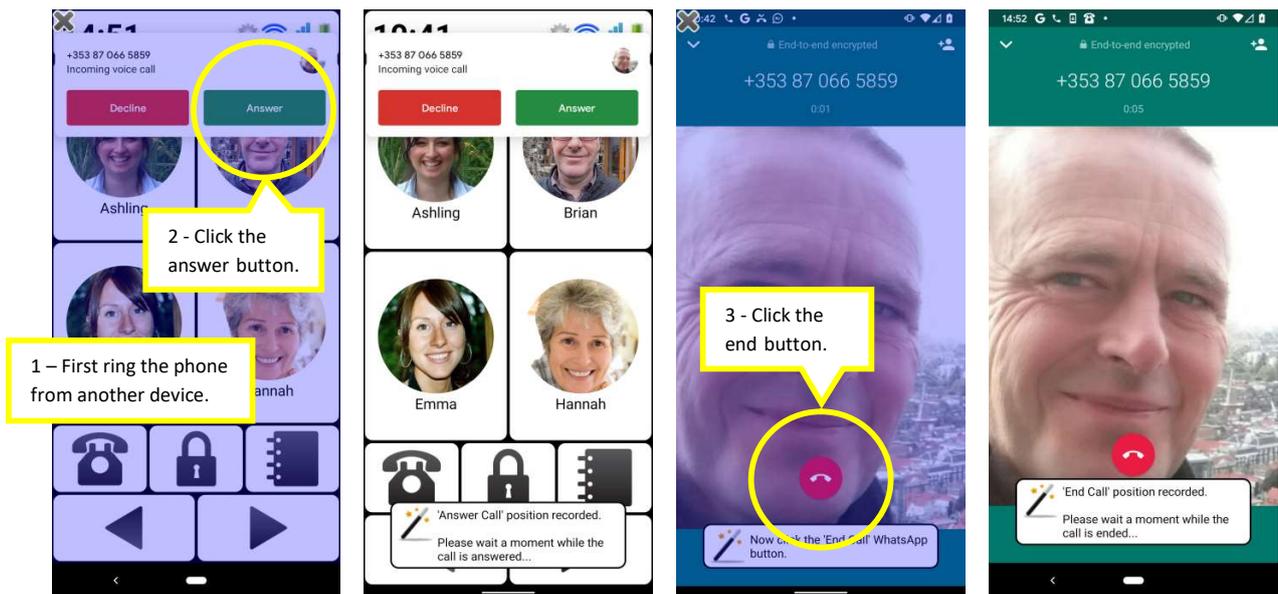


Step 4: Record WhatsApp gestures

Easy Mobile uses gestures to answer and end WhatsApp calls. This step requires you to call the phone you are configuring from another phone.



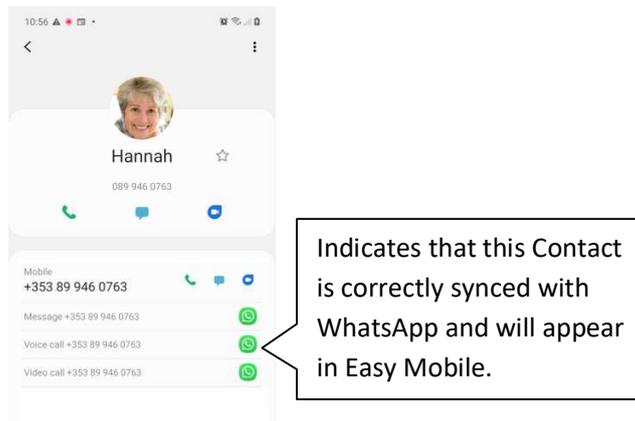
Click **Continue**, call the phone from another phone and then touch the screen where the **Answer** button is located. When you touch the screen a cross-hairs appears and the position is recorded. Then the call is answered with the newly recorded gesture. Once you are in the call you will be asked to touch the screen where the **End** call button is located.



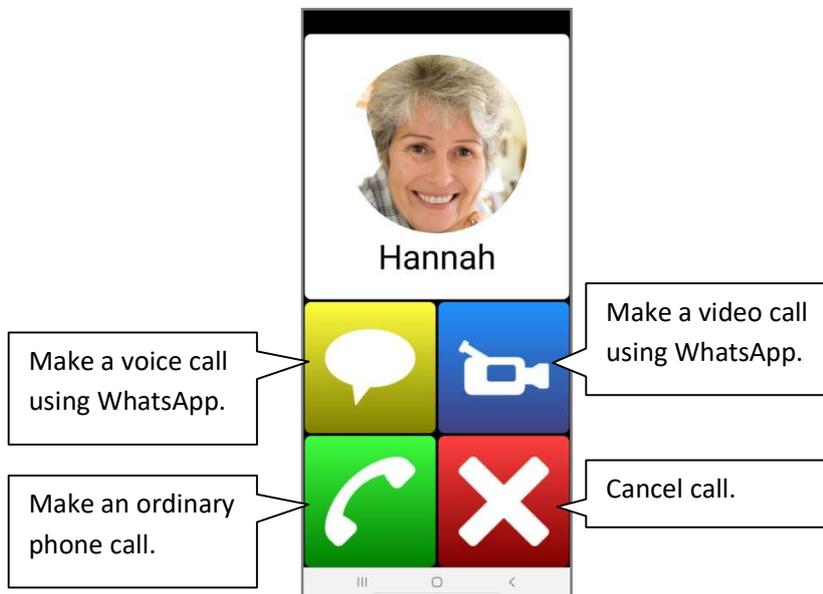
If you made a mistake or the gestures were not recorded in the correct place start the configuration again from the **Settings** menu.

8.2 Syncing WhatsApp Contacts

If you wish to be able to make WhatsApp calls from Easy Mobile you need to ensure that the contacts are synced with your device. To do this add the WhatsApp contacts you wish to call to your device including the international prefix code. You can add the contacts from within WhatsApp itself or using the system Contacts app by choosing **Settings->System Apps->Contacts** within Easy Mobile. In the system Contacts app, when a contact is correctly synced, you should see WhatsApp call options in addition to the normal call options.

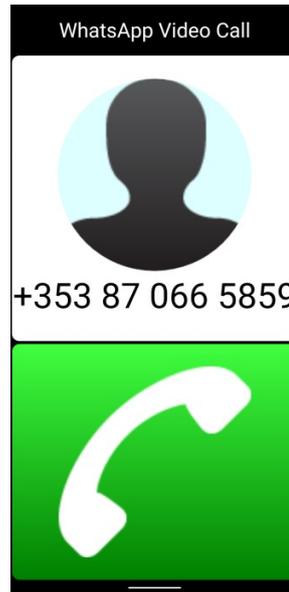
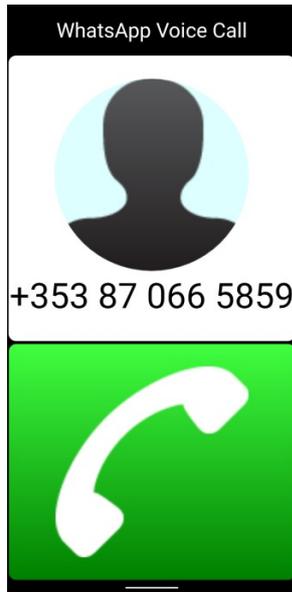


In Easy Mobile, when you choose a contact to call, you should now have the option to make an ordinary call or a WhatsApp voice or video call.



8.3 Answering and Ending WhatsApp calls

When you receive a WhatsApp voice or video call the **Incoming Call** window is displayed. This is an overlay drawn on top of the WhatsApp app in order to simplify the user experience. If you are using a push button to answer the call it is important to wait until the green **Answer Call** button is visible before pressing your button.

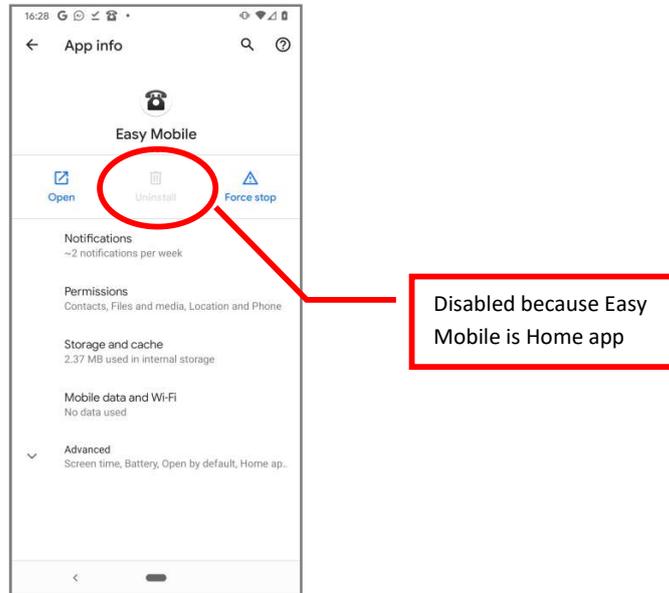


When the call is answered the End call button will appear on top of the WhatsApp **In Call** window. To end the call press the red **End call** button.

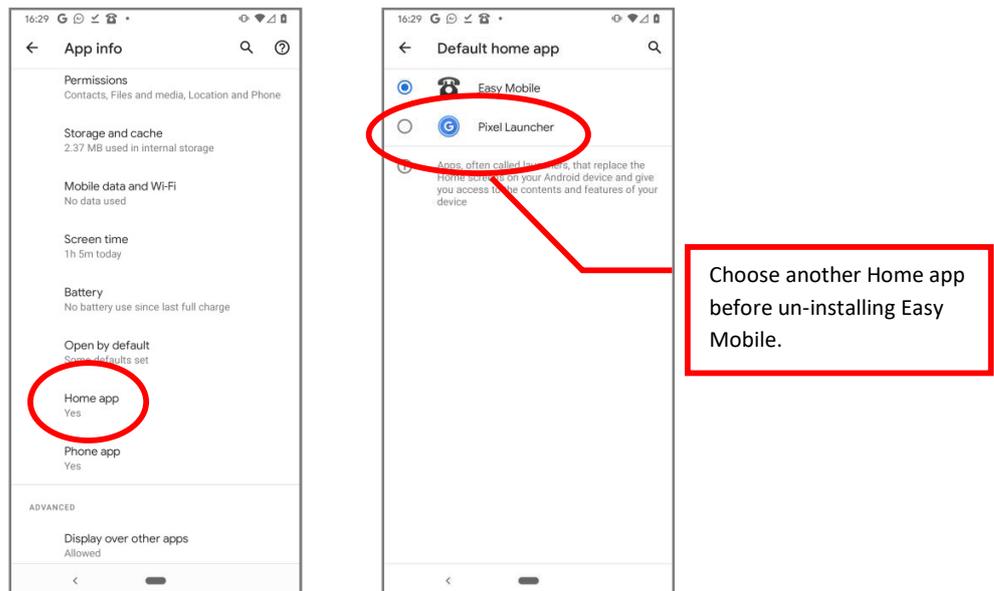


9 Uninstalling Easy Mobile

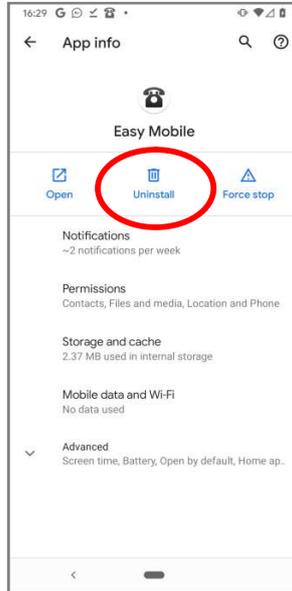
To uninstall Easy Mobile from a device choose **App Info** from the **Settings** symbol in the menu bar and then choose **Uninstall**. You will be brought to the App settings for Easy Mobile.



Because Easy Mobile is generally set as the default Home Screen the uninstall button will be disabled. If this is the case you must choose a different home screen app before you can uninstall Easy Mobile. Navigate down the **App Info** page and locate the **Home app** option under **Advanced**.



Select a different app for the home screen. When you return to the Easy Mobile page the Uninstall button should be enabled.



10 Push Button Specifications & Compliance

Battery	Standard lithium coin battery
Battery Life	CR2016/2025: >50,000 activations CR2430: 2-3 years or >150,000 activations
Connectivity	Bluetooth 4.2 Low Energy
Programming	3 functions in addition to call management
Compliance	FCC ID T9JRN4020 / CE 0984



11 Maintenance

The Easy Mobile Push Buttons should be regularly checked for integrity. Loose, damaged or corroded connectors or terminals, or damaged cabling should be reported to your Service Centre and be replaced immediately.

The Lithium coin batteries should be regularly checked for corrosion or leakage.

If you are not using your Push Button for an extended period remove the battery.

All switches connected to the Switch Input version of the Push Button should be regularly tested to ensure that they function correctly.

The Push Buttons should be kept free of dust, dirt and liquids. If necessary wipe with a cloth dampened with warm water or isopropyl alcohol. Do not use solvents or abrasive cleaners.

Where any doubt exists, consult your nearest Service Centre or Agent.

Apart from the battery there are no user-serviceable parts within the Push Button. Do not tamper with the circuit board.

In accordance with the requirements of CE marking of this device and the Company's policy, it is requested that re-occurring faults or defects be reported back to Unique Perspectives Ltd.

Warning !! If a Push Button is damaged in any way, or if internal damage may have occurred (for example by being dropped), have it checked by qualified personnel before operating.

12 Safety and Misuse Warnings

Although the Push Button can be used as an assistance call it is not a substitute for a Nurse Call system or Emergency Call button.

The Push Buttons are not designed to resist submersion in water or a significant spillage. If a spillage occurs remove the battery and consult your service agent. Any spillage over a Push Button should be wiped dry without delay.

Do not install, maintain or operate a Push Button without reading, understanding and following the proper instructions and manuals.

Do not operate the Push Button if it behaves erratically, or shows abnormal response, heating, smoke or arcing. Remove the battery and consult your service agent.

Ensure the Push Button is off when not in use and remove the battery if it is not going to be used for an extended period.

No connector pins should be touched, as contamination or damage due to electrostatic discharge may result.

Most electronic equipment is influenced by Radio Frequency Interference (RFI). Caution should be exercised with regard to the use of portable communications equipment in the area around such equipment. While the manufacturer has made every effort to ensure that RFI does not cause problems, very strong signals could still cause a problem.

Report any malfunctions immediately to your Service Agent.

13 Warranty & Sales and Service Information

All equipment supplied by Unique Perspectives Ltd. is warranted by the company to be free from faulty materials or workmanship. If any defect is found within the warranty period of 12 months, the company will repair the equipment, or at its discretion, replace the equipment without charge for materials and labour.

The warranty is subject to the conditions that the equipment:

- Has been used solely in accordance with this manual.
- Has not been subjected to misuse or accident, or been modified or repaired by any person other than someone authorised by Unique Perspectives Ltd.
- Has been used solely for the use of controlling the Easy Mobile app.

For Sales and Service advice, or in case of any difficulty, please contact:

Unique Perspectives Ltd.
Ballyclovan
Callan
Kilkenny
Ireland

WEB: www.housemate.ie
EMAIL: info@housemate.ie
Telephone: +353 56 7725913

NOTE: The Push Button should be clearly labelled with the manufacturer's service agent's telephone number.