



INSTRUCTION MANUAL



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I. FOREWORD

Read this manual carefully before using Spykee Cell.

The packaging and Quick Start Guide should be kept in a safe place.

A. INTRODUCTION

Thank you for purchasing Spykee Cell.

Spykee Cell is a **robot to build** that can be controlled **from your mobile phone via Bluetooth® wireless technology!** Spykee Cell is equipped with a **Bluetooth® card**, a webcam, a motorised head, a microphone, 2 – stereo loudspeakers, 3 LEDs and 2 motors.

- **Spykee Cell is a mobile robot!**

You can control Spykee Cell from your mobile phone!

Spykee Cell moves and you can direct its head. It sees, takes photos and produces a number of light and sound effects...

- **Spykee Cell lets you listen to music from your iPod® !**

Control your iPod® from your mobile phone, and listen to your favourite songs in stereo on your robot!

- **Spykee Cell is a robot that communicates!**

You can use it as a “Hands Free” set for your mobile calls.

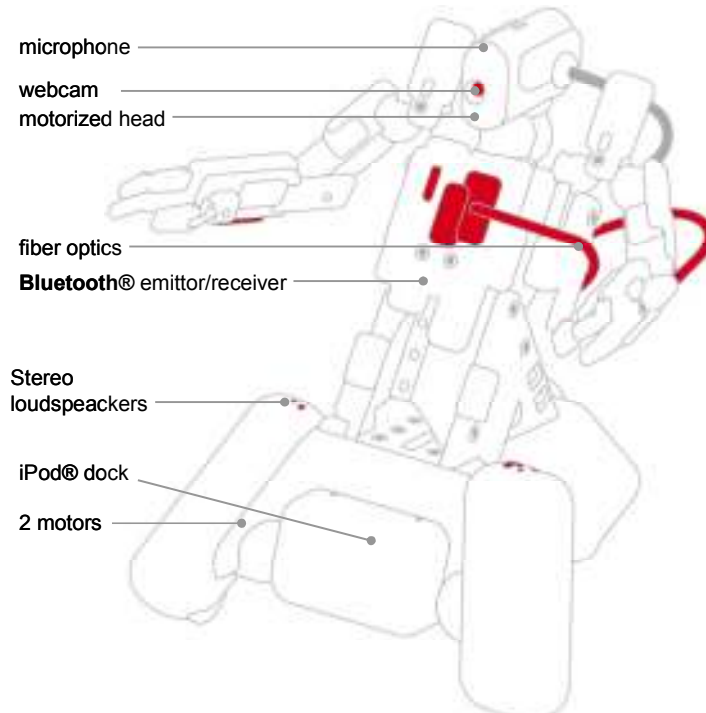
Spykee Cell also lets you morph your voice!

The box contains:

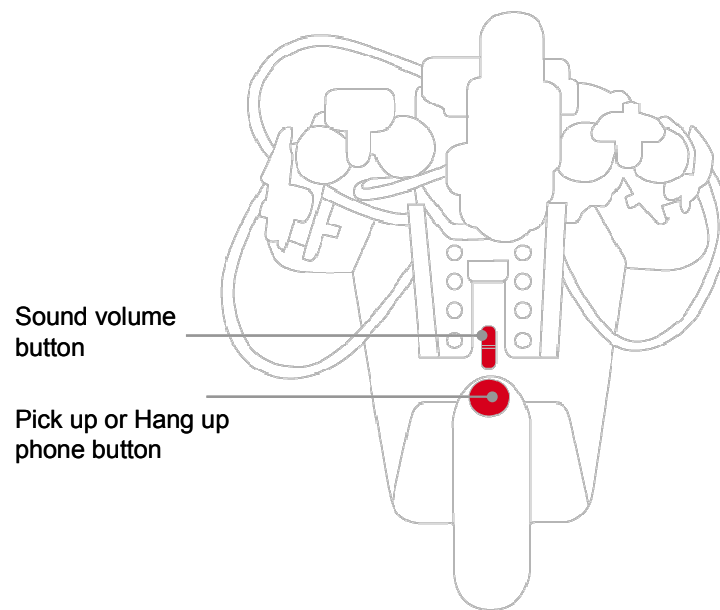
- Spykee Cell robot kit
- Building instructions
- Activation instructions

Easily and quickly build 2 different models / Compatible with all Meccano parts
Instructions and tools included / Requires 6 AA batteries (not included)

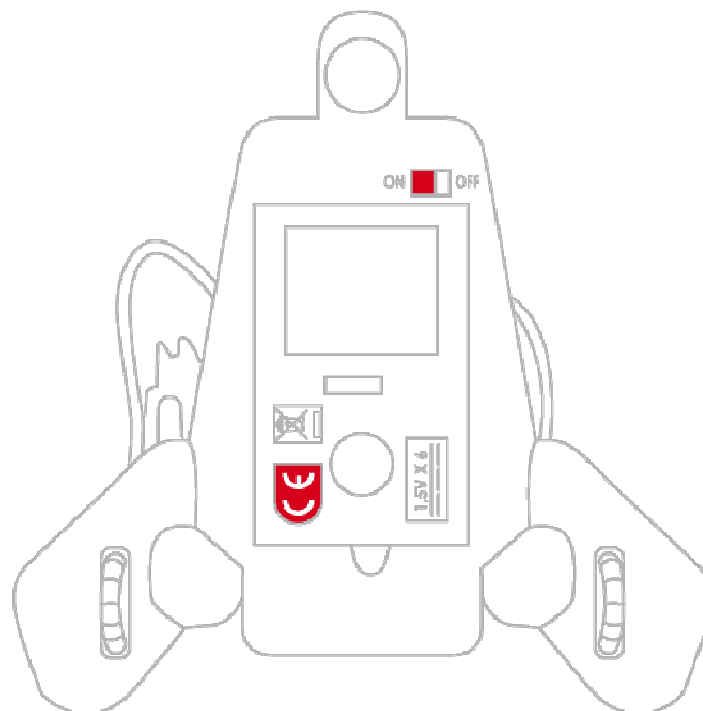
General View of Robot



View of Robot Chassis



View of Robot Underside



B. POWER SUPPLY

- Spykee Cell is powered by Six **1.5V AA batteries** (not supplied).
- To change the batteries, follow the instructions in the building instructions.

C. PRECAUTIONS AND WARNINGS

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.

In accordance with FCC requirements, changes or modifications not expressly approved by Meccano could void the user's authority to operate this product.

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.



1. STANDARDS AND CERTIFICATES OF COMPLIANCE

- 1- MECCANO hereby declares that this product complies with all requisite standards and other relevant regulations of directive 1999/EC. A copy of the original statement of compliance may be obtained at the following address: MECCANO, 363 avenue de Saint Exupéry 62100 Calais, France.
- 2- This product must be used indoors.

2. NON-LIABILITY CLAUSE

Certain differences may appear between the description found in the user's manual and the behavior of the robot depending on your robot's software version.

3. SAFETY INSTRUCTIONS

Choose a **SAFE** location to operate your Spykee. Do not operate it in the street. Do not operate it in sand or in puddles. This could deteriorate its performance. Check the surface conditions through which the robot will move and be aware of obstacles.

Avoid all contact with water.

The robot cannot climb or go down stairs.

Spykee's audio receivers are sensitive instruments. Do not allow the robot to be near a heat source or **IN FULL SUN** for any prolonged time.

Do not leave the robot in humid or damp areas.

Do not drop or throw it.

Do not paint it.



CAUTION

Risk of injury - keep out of reach of children under 36 months of age.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER
MAY VOID THE USER'S RIGHT TO OPERATE THIS DEVICE.

4. CARE AND MAINTENANCE

This robot requires periodic maintenance and cleaning.

Clean it with a slightly damp cloth.

Handle your Spykee with care and keep it in a clean area, sheltered from dust.

Do not attempt to open it or repair your Spykee yourself.

Its batteries must only be changed by specialists = please contact After Sales Service in this event.



The "barred trashcan" symbol found on your robot and its recharging station means that these products must, at the end of their lifetime, be delivered to special waste collection points:

Municipal waste dumps with specific bins for this kind of device

Collection bins at the point-of-sale

They will be recycled there, thus avoiding the discharge of regulated substances into the environment, and allowing the materials that make up your Spykee to be reused.

In member countries of the European Union

These selective collection points are accessible free of charge.

All products containing the "barred trashcan" symbol must be delivered to these collection points.

In countries that are not members of the European Union

Any equipment marked with the "barred trashcan" should not be disposed of in ordinary trash cans if your country or region has special organizations in place for collection and recycling, and this equipment should be brought to these collection points so that it may be recycled.

5. PRIVACY

You are reminded that you must abide by the rules and laws in force in your country on taking photographs and sound recording. In accordance with these rules and laws, it is sometimes strictly forbidden to take photos and/or make recordings of the voice or any personal attribute and to reproduce or distribute them, since it could be considered a breach of privacy.

It is the user's sole responsibility to ensure that if required he has prior permission to take a picture and/or record the voice of another person. The manufacturer, distributor or seller of your Spykee Cell will not be held liable for any inappropriate use of your robot.

6. THE BATTERIES

Do not recharge non-rechargeable batteries.

The batteries must be taken out of the toy before being charged if they can be removed.

The batteries must only be recharged under adult supervision (if they can be removed).

Different types of batteries or new and used batteries should not be used together.

Only batteries of the recommended or similar type should be used.

Take care to respect the polarity when installing batteries.

Used batteries must be removed from the toy.

Battery terminals must not be short circuited.

Used batteries must be disposed of at a recycling center.

Please use Saline or Alkaline batteries.

Lithium batteries should not be used in this robot.

For your information, using rechargeable batteries will reduce the robot's operating time.

INITIAL USE

A. INFORMATION ABOUT BLUETOOTH® TECHNOLOGY

Bluetooth® is a short range wireless technology, which allows several electronic devices equipped with this technology to be connected together.

The theoretical range of **Bluetooth®** for a mobile phone is 10 metres. If you direct your robot beyond this reception zone it will stop automatically.

Notes:

Bluetooth® wireless technology allows transmission of pictures and sound. However, it is important to realise that the larger the size of the image, the more staccato or delayed the motion on your mobile phone screen will be.

For optimum connection between your mobile phone and your Spykee Cell robot, we recommend that you avoid obstacles between the two devices.

B. BUILDING YOUR SPYKEE CELL

Read the assembly instructions included in the box.

Select your model and assemble it following the instructions!

C. INSTALLING THE “SPYKEE CELL” APPLICATION

Download onto your computer the “Spykee Cell” application installation files for your mobile phone.

Connect your computer to your mobile phone with the connecting cable (generally supplied with your mobile phone), by infra-red or by using **Bluetooth®**. The choice of connection depends on your model of mobile phone and computer.

Install the “Spykee Cell” application on your mobile phone following the instructions supplied by your mobile phone manufacturer.

During the installation procedure, several security warnings may appear. Please validate them to be able to use the “Spykee Cell” program.



So that the Spykee Cell program works correctly, ensure your mobile phone is kept up to date. To do that, visit your mobile phone manufacturer's website.



To control your iPod® from your mobile phone, ensure your iPod's software is up to date. To do that:

Download the latest version of iTunes from the Apple website: <http://www.apple.com/fr/itunes/download/>

Connect your iPod® to your computer, launch iTunes and update your iPod® following the instructions supplied by Apple.

D. POWERING UP SPYKEE CELL

- 1) Switch on Spykee Cell by moving the button under the chassis to the "ON" position.
- 2) A red light on Spykee Cell comes on. Then the robot will search nearby for a telephone to which it had been previously linked in hands free mode. If the phone is found, you will hear a "beep", "beep". If the phone is not detected, you will hear the sound of a bell. In both cases, the robot has powered up correctly and will continue its initialisation. When this has finished, another beep will sound. Your robot is then ready.
- 3) If the red lights on your Spykee Cell do not come on after several seconds, or you do not hear the "beep" or the red optic fibers hardly light up : check the power button is definitely "ON". If it is, your robot's batteries may be discharged so replace them. To do that read the assembly instructions.

E. CONNECTING YOUR MOBILE PHONE TO SPYKEE CELL

- 1) Check your mobile phone is switched on.
- 2) Activate your mobile phone's **Bluetooth®** function.
- 3) Once **Bluetooth®** has been switched on:
 - Access your telephone's Main Menu.
 - Look for the "Spykee Cell" program in your mobile phone and open it.
 - A picture of Spykee Cell appears on your screen:
 - A Warning Message might appear asking if you want to allow the "Spykee" program to use the connectivity applications : say Yes.
 - Wait a few seconds for connection to be established *



* The first connection takes the longest, it can take up to 45 seconds. Following ones are faster.

- 4) You will come to the Spykee Cell program Main Menu and you can now control your robot.

If you have not activated **Bluetooth®** on your mobile phone or it is disabled, when you try to connect a warning message might appear saying "Bluetooth Disabled". Switch on **Bluetooth®** !

III. MAIN MENU OF THE "SPYKEE CELL " PROGRAM

This is the Spykee Cell program Main Menu:



Below are the contents of each menu we will cover in the rest of this manual:

Start p.10/11	Robot Control: • Moving Spykee Cell • Moving the Head of Spykee Cell • Taking a Photo • Activating Sound and Light effects • Listening to Music • Memo: Control and Quick Access buttons to the Music, Voice FX and FX Menus
Music -iPod® p.12/13	Listening to Music: • Controlling your iPod® from your mobile phone • Using Spykee Cell as stereo loud speakers for your iPod®
Voice FX p. 15	Audio Recording and Voice Modification
Sound FX p. 15	Choice of Special Effects
Settings p. 14	Setting parameters for: • speed of robot movement • video size • sound volume • SMS messages (only on some telephones)
About	The company that owns Spykee and developed the Spykee program
Exit	Exit the program: disconnect Spykee Cell from your mobile phone

IV. SPYKEE CELL FUNCTIONS

A. "START" MENU: CONTROLLING SPYKEE CELL

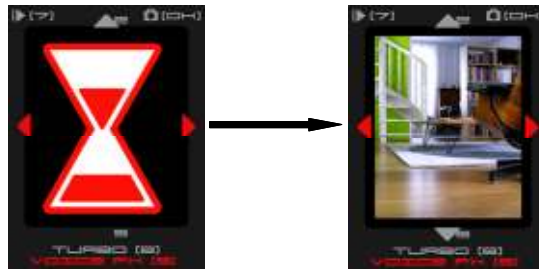


Before making Spykee Cell move, ensure the robot is on the ground or away from the edge of a table for instance, to avoid any risk of it falling and being damaged.



If you move Spykee Cell beyond the range of **Bluetooth®**, you will lose contact. If you stay out of range too long you will not be able to re-establish connection.

In the Spykee Cell program Main Menu, select **"Start"**, wait a few seconds, the picture seen by Spykee Cell will appear on your mobile phone and you can then take control of the robot.



7. MOVING SPYKEE CELL

Use the **multidirectional navigation button** on your mobile phone to move Spykee Cell in the desired direction.

By pressing the multidirectional button once, Spykee Cell will make a small movement in the desired direction, a second pulse will give it a longer movement and keeping the button pressed produces continuous movement while the button is held down.

You can move Spykee Cell more quickly with the **"TURBO"** function:

- To activate the "TURBO" function, press once on your phone's "8" key. Once selected, the word "TURBO" on your mobile phone screen turns from grey to red.
- If you press "8" a second time, the "TURBO" function is deactivated and the word is displayed in grey

You can set the speed of your robot: see Part IV, Chap.D, p14.

Make sure you only move Spykee Cell within a maximum radius of 10 metres. If your robot moves out of range it will stop automatically, the picture will freeze and you will receive a warning message: **"Connection lost : Spykee is out of range or is powered off"**. Move closer to your Spykee Cell, if you do it quickly (in under 10 seconds) the connection will be re-established automatically; otherwise you will have to re-connect your mobile phone to Spykee Cell manually.

8. MOVING THE HEAD OF SPYKEE CELL

Spykee Cell has a motorised head which you can raise or lower :

- Raise Spykee Cell's head by pressing the **"2"** key on your mobile phone
- Lower Spykee Cell's head by pressing the **"5"** key on your mobile phone

9. TAKING A PHOTO

- To take a photo, click once on your mobile phone "OK" key.

Depending on your model of mobile phone, you might see a warning message asking you if you are sure you want to take a photo; confirm to take the photo.

- You will hear a "Click Clack" sound from the robot to indicate a photo has been taken.
- Your photo will be saved in your mobile phone default picture directory.

Refer to your mobile phone user manual to find the directory where the photos are stored.



Warning - you must quit the program to access this directory.

10. PLAYING SOUND AND LIGHT EFFECTS

With Spykee Cell you can play the following different sound and light effects:

- Laser
- Robot
- Explosion
- Laugh
- Machine-gun
- Burp

You can activate these sound effects while controlling the robot by pressing the keys "1", "3", "4" and "6".

To select special effects and assign a key to them see Part IV, Chap D, p15.

11. LISTENING TO MUSIC

With Spykee Cell you can listen to music from your iPod® nano or iPod® touch.

From the "Start" Menu you can only play the current piece of music or pause it with the number "7" key which works like a play/pause button.

To learn about the other functions on the Music Menu, refer to the section "MUSIC" MENU. LISTENING TO MUSIC (Part IV, Chap B, p12).

12. MEMO : CONTROL AND QUICK ACCESS BUTTONS TO THE MUSIC, VOICE FX AND FX MENUS

ROBOT CONTROL	
Multidirectional Button	Move the robot
Button "8"	Activate TURBO function
Button "OK"	Take a Photo
Button "2"	Raise the head of Spykee Cell
Button "5"	Lower the head of Spykee Cell
Button "7"	Play or Pause music
Buttons "1", "3", "4" et "6"	Play sound and light effects
QUICK ACCESS TO OTHER MENUS	
Button corresponding to "Cancel"	Return to Main Menu
Button "#"	Access the Sound FX Menu
Button "9"	Access the Voice FX Menu
Button "*"	Access the Music -iPod® Menu

B. "MUSIC" MENU: LISTENING TO MUSIC



Spykee Cell is a Made for iPod® product. It is compatible with all generations of iPod® nano and the first generation of iPod® touch.

1. CONTROL YOUR iPod® WITH YOUR MOBILE PHONE

With Spykee Cell you can control your iPod® nano or iPod® touch with your mobile phone. Your iPod® interface will be shown on the mobile phone. You will not be able to control your iPod® manually while you are connected to the robot.



To control your iPod® with your mobile phone, make sure your iPod software is up to date. To do that:

1. Download the latest version of iTunes from the Apple website: <http://www.apple.com/fr/itunes/download/>
2. Connect your iPod® to your computer, launch iTunes and update your iPod® following the instructions supplied by Apple.

Before inserting your iPod® into its dock connector, ensure you have installed the correct socket for your model.

- 1) Insert your iPod® into its dock, it will automatically pause.
- 2) Select the " Music -iPod® " Menu on your mobile phone Spykee Cell interface.
 - From the main menu select " Music -iPod® "
 - From the robot control menu ("Start" Menu) press the "*" key.
- 3) You can then navigate your iPod® from your mobile phone and choose the music you want. To navigate, there are several modes:
 - "Playing List" : allows you to choose the play list you want to listen to: "on-the-go" lists, a playlist of all the tracks on your iPod® as well as all your personalised playlists.
 - "Artists" : display and listen to music sorted by artist
 - "Songs" : display and listen to music sorted alphabetically
 - "Genres" : display and listen to music sorted by genre
 - "Composers" : display and listen to music sorted by composer
 - "Now playing.." : display information on the music being played (length, artist, genre..)

Focus on the **"Now playing...."** Menu: Screen:



MUSIC CONTROL	
Button "7"	Play or Pause Music
"Left" and "Right" directional buttons	Navigate the Play List
"High" directional button	Increase the Volume
"Low" directional button	Lower the Volume
SHORT-CUTS TO OTHER MENUS	
Button "#"	Access the Sound FX Menu
Button "*"	Access the Start Menu

When you are listening to music, you can continue to play with Spykee, move his head, move the robot and take photos by returning to the "Start" Menu.

2. USE YOUR SPYKEE CELL AS STEREO LOUDSPEAKERS FOR YOUR iPod®

You can use your Spykee Cell as a speaker for your iPod® nano or iPod® touch. To do this, you do not have to connect to your mobile phone.

- 1) Power up your Spykee Cell if you have not already done so
- 2) Check your iPod® is not in the "HOLD" position; if so, change the setting.
- 3) Put it into its dock, your iPod® will automatically go into "Pause".
- 4) You can then control your iPod® manually to listen to your music. You can use the volume button on the robot chassis to amplify the sound (your iPod® volume control will not work).

C. COMMUNICATE:

a) "HANDS FREE" KIT

When you receive a mobile phone call, you can use Spykee Cell as a hands free kit.

- 1) Please get out of Spykee Cell application and come back to the main menu of the cell phone.
- 2) Access **Bluetooth® menu**
- 3) Search new paired device and select « SpykeeCellXXXXXX » (Serial Number of your Spykee Cell).
- 4) Please connect you to this new device
- 5) A password or code can be asked : please enter "0000".
- 6) Once connected, someone can call you on your cell phone.
- 7) To answer, press quickly the white round button on the upper surface of the robot chassis. (Refer to Part I : View of Robot Chassis)
- 8) To hang up, hold down the same button for more than two seconds.

b) ACTIVATE MESSAGES

Spykee Cell can read out an audio recording with voice morphing which you produce by pressing the "9" key on your mobile phone.

To find out how to record a message and to transform the voice: refer to CUSTOMISING SPYKEE CELL PARAMETERS/ RECORDING AND VOICE MORPHING : Part IV, Chap. D, p15.

D. CUSTOMISING SPYKEE CELL PARAMETERS

1. MENU SETTINGS: GENERAL PARAMETERS

a) Robot Movement Speed

- 1) Select the "Settings" Menu
- 2) Select the "Robot Parameters" Menu
- 3) Select your robot speed from the following: Slow, Medium and Fast.
- 4) You can then return to the "Start" Menu and move your robot at the new speed.

To return to "Start" Mode:

- Press the key corresponding to "Previous Menu" twice in succession (see your mobile phone user guide: the Main Menu is displayed.
- Select the "Start" Menu from the list and press "OK".

b) Video Size

- 1) From the Main Menu, select "Settings"
- 2) Then select "Video Parameters"
- 3) From the 5 pre-defined picture sizes, choose the one you want.

The smaller the picture size, the more fluid will be the picture on your mobile phone.

To return to "Start" mode:

- Press the key corresponding to "Previous Menu" twice in succession (see your mobile phone user guide): the Main Menu is displayed.
- Select the "Start" Menu from the list and press "OK".

c) Volume

You can set the volume on your Spykee Cell in the following way:

- 1) With your mobile phone
 - Select the "Settings" Menu
 - Select "Sound Vol."
 - Press the multidirectional key, Up to increase volume, Down to lower the volume
- 2) Directly on Spykee Cell
 - Press the "Volume" button on the robot chassis (refer to Part I: Top View of Chassis)
 - towards the outside of the robot to increase volume
 - towards the inside of the robot to lower volume

d) SMS Alerts



This SMS alert function is only available on some Sony Ericsson mobile phones.

When you receive an SMS, Spykee Cell can let you know in two different ways:

- "Alarm" Mode: when you receive an SMS, your Spykee Cell creates the audio effect "You've got a message" along with a light effect
- "Silence" Mode: when you receive an SMS, your Spykee Cell creates a light effect.

To configure this SMS alert, check you are in the Main Menu and then:

- 1) Select the "Settings" Menu
- 2) Select the "SMS" Menu

- 3) Make your selection: "Alarm" or "Silence"

2. "SOUND FX" MENU: CHOICE OF SPECIAL EFFECTS

By default Spykee Cell comes with 6 special effects:

- Laser
- Robot
- Explosion
- Laugh
- Machine-gun
- Burp

To choose the four desired sound and light effects from the six selections:

- 1) Access the special effects selection menu :
 - Select "Sound FX" from the main menu
 - Press the "#" key to access it directly when you are playing with Spykee.
- 2) To listen to and see a special effect press the "OK" key on your mobile phone
- 3) Choose the 4 effects you want by pressing a number key: "1", "3", "4" or "6".

You can use 4 different special effects when you are controlling Spykee Cell.

You can select and modify your selection at any time from the "Sound FX" menu in the Spykee application.

To return to "Start" mode: press the "#" key.

If your iPod® is playing and you want to listen to the sound effects undisturbed you can press the "7" key to pause it and then press "7" again to restart play.

3. "VOICE FX" MENU: RECORDING AND VOICE MORPHING



Apart from the light and sound special effects pre-recorded in your Spykee, you can also personalise your robot by recording your voice and processing or morphing it if desired. You can then play this recording from your robot.

To record a sound, follow the following procedure:

- 1) From the main menu, select the "Voice FX" menu
From the "Start" menu, press the "9" key.
- 2) Select "Record"  once and speak.
- 3) Select "Record"  a second time to end recording.
- 4) Then select the voice modification you want - "Robot Voice", "Dark Voice" or "None".
- 5) To listen to the recording, select "Play" .

For optimum voice recording, speak at least 10 cm away from your mobile phone microphone. To return to the "Start" menu, press the "9" key.

V. MEMO: Control buttons and Quick Access to other menus

"START" MENU	
Multidirectional Button	Moves the Robot
Button "8"	Activates the TURBO Function
Button "OK"	Takes a Photo
Button "2"	Raise the Head of Spykee Cell
Button "5"	Lower the Head of Spykee Cell
Button "7"	Play or Pause music
Buttons "1", "3", "4" and "6"	Activate Sound and Light Effects
Button corresponding to "Cancel"	Return to Main Menu
Button "#"	Access Sound FX menu
Button "9"	Access Voice FX menu
Button "*"	Access Music -iPod® menu
"Music -iPod®" MENU	
Button "7"	Play or Pause music
Directional buttons "Left" and "Right"	Navigate the Play List
Directional button "High"	Raise the Volume
Directional button "Low"	Lower the Volume
Button "#"	Access Sound FX Menu
Button "*"	Access Start Menu
"SOUND FX" MENU	
Button "#"	Access Start Menu
"VOICE FX" MENU	
Button "7"	Play or Pause iPod® music
Button "9"	Access Start menu

VI. TECHNICAL SPECIFICATIONS

- . **Bluetooth®** module class 2 (V2.0 EDR compliant) / HSP HFP SPP
- . **Bluetooth®** compatible cell phones: MIDP 2.0
- . HFP / HSP profiles support for hands free feature
- . 32-Bit RISC architecture Microcontroller
- . 3 motors (2 for driven wheels + 1 for camera tilt)
- . Speed: 15cm/s – Turbo speed: 30cm/s
- . 3 led
- . CMOS Webcam (176x144 pixels array)
- . Stereo loudspeakers (8kHz sampled sound)
- . Microphone
- . Buttons or software volume setting
- . Line in for 3.5mm jack
- . Made for iPod® dock (compatible with iPod® nano & iPod® touch, not included)
- . Works with 6 AA batteries (not included)

VII. HELP

I can't connect to my Spykee Cell

- Check the **Bluetooth®** connectivity on your mobile phone is activated. To do that, refer to the user guide supplied by your mobile phone manufacturer.
- If your mobile phone connected automatically to your Spykee Cell, switch off Bluetooth® connectivity and reactivate it manually (see Chap II : Connecting your Mobile Phone to Spykee Cell)
- Check you are close enough to your Spykee Cell (distance < 10 metres)
- Check there are no solid objects between you and your Spykee Cell

In robot control mode (Start), I do not have a picture or the picture is frozen

- Check the batteries on your robot
- The Spykee Cell robot might be beyond **Bluetooth®** range. Move closer to your Spykee robot (one or more steps): if connection does not happen automatically, reconnect manually (see Chap II : Connecting your Mobile Phone to Spykee Cell)

I can't hear the music

- Check your iPod® nano or iPod® touch is correctly seated on the iPod® dock connector
- Check your iPod® nano or iPod® touch is charged up

The lights do not come on

- Check the batteries
- One or more diodes might be damaged

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Please retain user's manual and packaging.
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