

genib SD

USER MANUAL

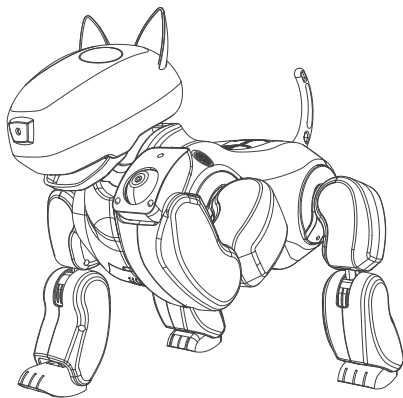


Dongbu Robot

Intelligent Pet Robot

genib SD

USER MANUAL



Customer Support : **+82-80-329-5482**

www.dongburobot.com

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Genibo Introduction

What is Genibo SD ?

Genibo SD is an upgraded version of the Genibo QD, the first intelligent robot puppy in Korea. Genibo SD is more user friendly, Especially, main CPU has been upgraded for more versatile performance.

※ Genibo always needs your love and attention !

1. Robot Puppy Loved by The Whole Family

Our Genibo walks around on its own like a real live cute puppy, Genibo can understand your voice commands and express its feelings when touched on the back, head, sides, and etc.

※ Make Genibo your best friend, Feel the happiness from owning your own easy to care pet.

2. Robot Puppy with Live Emotions

Genibo can do more than a real puppy, It can the ground, stand on its head, dance, Taekwondo martial arts, and exercise. Genibo can express its feeling using its eye emoticon, sound effects, and 1,200 emotional actions.

※ Genibo is a live robot puppy capable of expressing happiness, pleasure, sadness, surprise, anger, boredom, and sleepiness !

3. Genibo is an Intelligent Puppy that can Recognize and Seek Out its Owner.

Genibo can recognize human faces including the owners face using the camera on its nose.

As it becomes more friendly with the owner it will become happier and seek out and follow the owner more.

※ Genibo is an intelligent robot puppy with following emotional characters (*mood/intelligence/character/intimacy*) and also following two desires (*exercise and hunger*).

Genibo Safety Instructions

Please read the following safety instructions carefully to avoid personal injury, damage to the property, and to protect your Genibo from potential damage.

Safety instructions are divided into 'WARNING' and 'CAUTION' with following definitions.

- △ **WARNING** : Ignoring these instructions may lead to personal injury or property damage.
- △ **CAUTION** : Ignoring these instructions may lead to personal injury or property damage.

Warning

- **Use only the included charger or charger specifically designed for use with Genibo.**
Use of other chargers not approved for use with Genibo may cause fire, damage to Genibo, electric shock or explosion.
- **Do not connect the charger to the electric transformers, travel AC converters or adapters.**
Use of adapters may cause fire or damage to Genibo from overheating.
- **Do not connect multiple electronic devices to single wall outlet at the same time.**
Use of multiple devices may cause fire or damage to Genibo from overheating.
- **Do not touch the charger with wet hands.**
May cause electric shock or fire.
- **Keep the power cords away from sharp edged objects, children and pets.**
Make sure power cord is not bent, pressed by a heavy object. Power cord should be placed so that it will not be stepped on or tripped over. May cause electric shock, fire or potential safety hazard.
- **Before using the charger, examine the charger and the power cord for any damages or excessive wear. Charger with damages or excessive wear should Not be used and replaced with a new charger.**
Use of damaged charger may cause serious personal injury, fire, electric shock, and damage to Genibo.

Genibo Safety Instructions

- **Charger should be used in well ventilated area. Make sure not to use the charger while it is in a carrying case and that it is not covered by materials such as paper or cloth when being used.**
- **Make sure the charger power cord is properly plugged into the wall socket.**
Loose connection may cause fire or electric shock.
- **Before connecting the charger, check the wall socket voltage rating and the frequency to make sure it is compatible with the ratings specified on the charger.**
Incompatibility may cause fire or damage to Genibo.
- **Do not touch the pins of the power plug when connecting or disconnecting the power cord from the wall socket.**
May cause electric shock or fire.
- **Do not use the charger during the electric storm. Charger should be disconnected from both the wall socket and the robot during the electric storm.**
May cause serious personal injury or fire.
- **Genibo is not intended for use by children less than 3yrs old.**
- **Do not use Genibo near children less than 3yrs old.**
May cause personal injury or damage to Genibo.
- **Never assemble or disassemble Genibo on your own. Servicing should only be done by qualified service personnel. (Refer to the customer support page at the back of the cover)**
Any damages caused by attempted modification or service by non qualified person will void the manufacturer's limited warranty.
- **Do not attach any electric conducting material near the charging connector on Genibo or near the connetor on the charger.**
May cause fire or electric shock.

Genibo Safety Instructions

- **Do not expose the battery, charger and Genibo to temperatures above 49°C(120°F) or to heat sources such as the radiator, fireplace, stove, electric heater, direct sunlight, and closed car during the summer.**

May cause fire, explosion, or degraded battery performance.

- **Do not use Genibo on top of the table, stairway, or at any location where there is a danger of Genibo falling and being damaged. Genibo should also not be used at locations where there is vibration or soft ground.**

May cause personal injury or damage to Genibo.

- **Do not insert or poke the charge connector with objects that conduct electricity.**

May cause electric shock, fire, or personal injury

- **Do not insert a finger or any other foreign objects into Genibo joints or connectors.**

May cause personal injury or damage to Genibo.

- **Do not sit or step on Genibo or place objects on top of Genibo.**

May cause personal injury or damage to Genibo.

- **Do not spill water, liquid, sand or wash Genibo.**

May cause electric shock or damage to Genibo.

- **Do not use Genibo near the bath tub, sink, swimming pool, wet or humid basement or at any other wet or humid location.**

May cause electric shock or damage to Genibo.

- **When Genibo is brought to a warm area from a cold location, moisture may form inside or on the surface due to condensation. In such an instance, turn the power off and leave Genibo in the new location for at least an hour until the moisture evaporates.**

- **Use only soft dry cloth to clean Genibo.**

Using wet cloth may cause electric shock, personal injury or damage to Genibo. Using rough cloth may cause damage to surface.

Genibo Safety Instructions

- **Contact our customer support at back of the manual if you wish to replace the battery.**
Genibo uses recyclable lithium ion battery. Used battery should be disposed according the the manufacturer's instructions or according the local law concerning the disposal of used batteries.
Use only the Dongbu robot battery made for use with Genibo.
Use of any other batley may cause fire or explosion.
- **Remove loose wires or any other items that may interfere with Genibo when moving.**
May cause fire or damage to Genibo.
- **Keep the battery away from the children.**

Warning

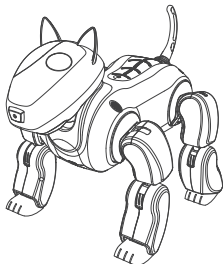
- **Put your hand under the body and grab the whole body and lift Genibo out of the box after unpacking.**
- **When storing Genibo, place the original packing material around the tail, neck, side, and legs in proper position before putting Genibo in the original or other suitable box. Packing material will protect Genibo and the sensitive parts such as the motor and gears against the external force and shocks while in the box.**
- **Do not lift Genibo by its tail, ears, legs, or head. Always lift Genibo by the whole body.**
May cause damage to Genibo
- **Turn off the main power switch on its stomach when storing or transporting Genibo to another distant location.**
Prevents the battery from discharging.

Genibo Safety Instructions

- **Battery will discharge slowly over a period of time even though it has not been in use.**
Charge the battery before using Genibo if it has been stored for long period of time.
- **Do not drop Genibo and protect it from external shock.**
May cause damage to Genibo and lead to product failure.
- **Genibo may not respond to your touch or remote control command while it is moving or in action. Wait until the current movement or action is finished before touching or giving it a command using the remote control.**
- **Genibo may not be able to move or fall down if it is used on uneven surface, inclined or slippery floor or in an area with obstacles.**
- **Do not expose Genibo to magnet, magnetic field, or X-Ray.**
May cause damage or malfunction to Genibo.
- **Genibo is for indoor use only. Do not use Genibo on rough surfaces such as the concrete floor.**
May cause damage to Genibo.
- **Do not let the camera (located at tip of the nose) point towards the sun to prevent damage.**
- **Use the original packing material or other appropriate material around the tail, head, body, and legs to protect Genibo when transporting or storing Genibo for long period of time.**
- **Do not lubricate the joints or other moving parts.**

Genibo Package Contents

Package Contents



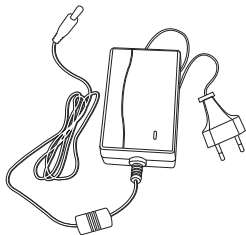
Genibo Body



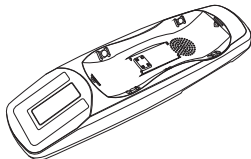
Remote Control



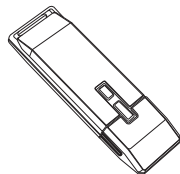
User Manual



Charger



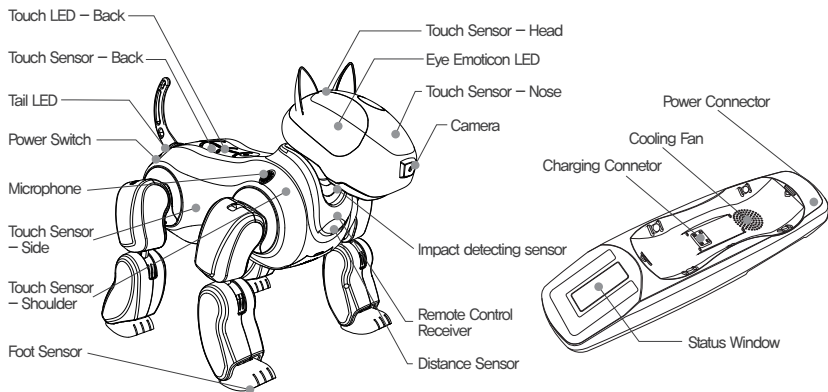
Recharge Docking Station



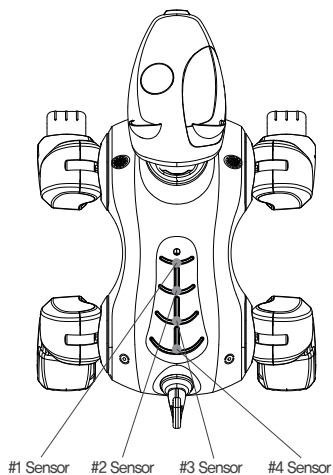
USB LAN card (Option)

Genibo Parts

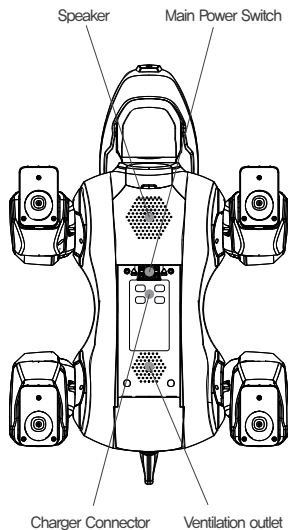
Genibo Parts



Genibo Parts



[Top View]



[Bottom View]

Genibo Power On/Off

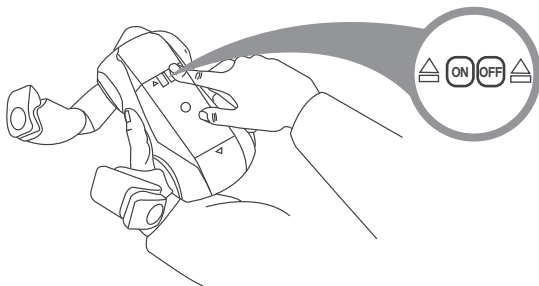
Main Power Switch On/Off (Initial Start up/Long Term Storage)

1. On : Push the (▲) left of the ON until you hear the “Tick” sound.

Tip • Connect the installed battery to the internal circuit first.
Main power switch must be set to on before using Genibo.

2. Off : Push the (▲) left of the OFF until you hear the “Tick” sound.

Tip Disconnects the battery from the circuit to prevent discharge.
Set switch to off when not being used for long period of time.



Genibo Power On/Off

Power On/Off

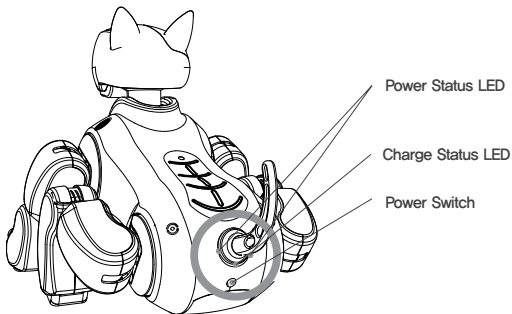
1. On : Press the “Power Switch” below the tail. The “Power Status LED” will turn red. Keep pressing the switch for 3 seconds and the LED will turn purple and Genibo will turn on.

Tip Genibo requires 30~50 seconds to initialize. Eye emoticon and the voice comment will indicate that Genibo is initialiaing.

2. Off : Pressing the power button on the remote control twice or keeping the button pressed for 3 seconds will turn off Genibo about 10 seconds after playing the closing music. Pressing the power switch below the tail for 3 seconds will also turn off Genibo but this method should only be used when Genibo does not respond to the remote control command.



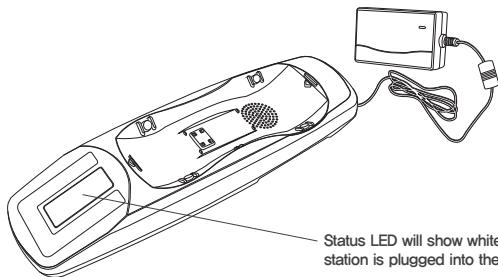
Pressing the power button twice or keeping the button pressed for 3 seconds will turn off Genibo



Genibo Charging Station

Connecting To The Power Supply

Status LED will light up when charging station adapter is plugged into the power source.



Status LED will show white light when the charging station is plugged into the power source.

The status LED will turn green and Genibo will start to charge when Genibo is put on top of the charging station. You may hear the cooling fan in the charging station operating during charge.

Tip Make sure the Status LED is showing Green when Genibo is put on the charging station. If the status LED is not showing Green, shake or move Genibo slightly until the LED turns Green.

Genibo Charging

Charging

1. Charge the battery when using for the first time or when low battery warning comes up.
(Charge Time: appx 150min, Run time: appx 90min)

2. When the battery is running low, Eye emoticon LED will change to following as below.
Genibo will express hunger and then fall a sleep.



3. When charge is required during use, lift Genibo by holding both sides, Genibo will collect its legs forward. Put Genibo on top of the charging station and the Staus LED on charging station will turn Green and Genibo will start to charge. Eye emoticon LED will show as below after 1min on the charging station.



Tip Genibo's joints have strength when it is in use. Forcing or pressing the joints will cause damage.

4. When Genibo is being charged after it has been turned off, make sure the charging station Staus LED is showing Green.

5. The charge status LED below the tail will turn to blue from red when charge is complete.

Tip When Genibo is placed on top of the charging station with the main power switch off, both the charging station Staus LED and Genibo Charge Status LED will show blue. In this case, Genibo is not being charged.

Understanding Genibo

Genibo's Artificial Intelligence

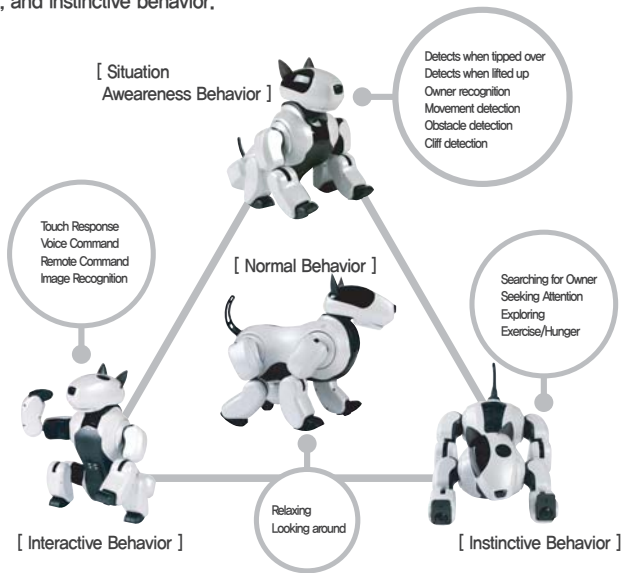
Genibo uses its sensors, camera, and voice commands to interact with its surroundings and to share its feelings with the owner. Genibo uses the input from its surroundings to form its emotion/mood/intelligence/character/intimacy, resulting in unique character and intelligence. Genibo expresses its desire for exercise, curiosity and other behavior including the autonomous movement based on its uniquely formed personality.

1. **Emotion:** Depending on its current emotion or interaction with the user, Genibo can express 7 following emotions (happiness, pleasure, boredom, sleepiness, surprise, anger, and sadness), its emotional state is expressed by its action.
2. **Mood :** Mood will improve or get worse, depending on interaction with the user. Mood returns to normal after certain period without any interaction with the user.
3. **Character/Intelligence :** Forms gradually, depending on interaction with the user and may improve or get worse. Change is gradual.
4. **Intimacy :** Intimacy increases with the love and care from the user and decreases when user shows unfriendly action. Change is gradual.

Understanding Genibo

Genibo's Behavior Pattern

Genibo shows variety of behavior patterns as shown in the photo below. Depending on the circumstances, Genibo will show normal behavior, situation awareness behavior, interactive behavior, and instinctive behavior.



Understanding Genibo

Situation Awareness Behavior

Genibo uses its artificial intelligence to recognize various situations, sets priorities and acts on its own accord.

1. Sensing when tipped over

- When Genibo tips over during movement, Genibo uses its internal “Horizontal detection sensor” to detect its state and stands up on its own.
- If Genibo does not or can not return to its normal position after certain period of time, it will automatically turn itself off.
- Give Genibo a helping hand If it has trouble getting up on its own due to an obstacle near by.

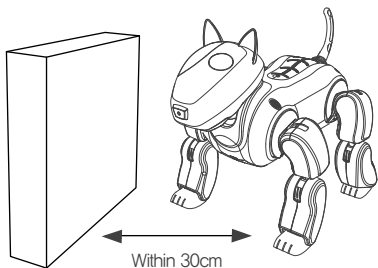
2. Sensing when lifted up

- When Genibo is lifted up by holding both its sides and none of its feet touching the ground, Genibo will recognize that it has been lifted up.
- When Genibo is lifted up, it will express its insecurity using various sounds according to its character and intelligence.
- If the lifted up status is not cancelled after certain period of time, it will turn itself off automatically.

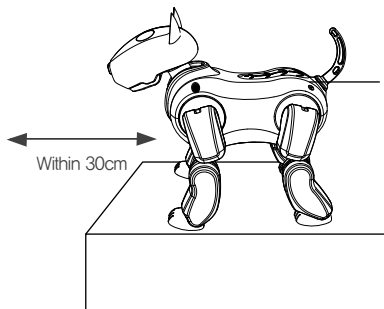
Understanding Genibo

3. Obstacle and cliff detection

- Genibo is capable of detecting an obstacle or a cliff using the “distance sensor” on its chest.
- Genibo is able to detect large objects or a wall at near the front but it can not detect small objects on the floor.
- Genibo is able to detect a cliff near its front within 30cm distance.
- Genibo will change direction or walk backwards to avoid falling off a detected cliff.
- Genibo will try to avoid hitting or tripping over the detected obstacle.



[Obstacle Detection]



[Cliff Detection]

Understanding Genibo

Situation Awareness Behavior

In autonomous mode, Genibo will use the image recognition or interaction with the user to recognize its owner. Once the owner has been recognized, Genibo will use various actions to try to make the owner happy.

1. How Genibo recognizes its owner

- In autonomous mode or when in image recognition phase commanded by the remote control, Genibo will compare the detected face with the registered owner's face to find its owner.
- When Genibo is in autonomous mode and seeking attention, user touching Genibo will be recognized as the owner.

- Tip**
- Image recognition does not run constantly when Genibo is in autonomous mode. To have Genibo recognize your face immediately, use the remote control to run the image recognition by pressing "4" and "OK" button.
 - To have the owners face recognized, owners face must be first registered. Refer to the "Registering Owner's Face" section of the manual.

2. Behavior after recognizing the owner

- Genibo will take various actions to seek the owners touch.
- Genibo will try 8 times to seek the owners touch and the the number of successful correct touches by the owner as sought out by Genibo will influence the mood and intelligence values.
- Genibo will make different sounds according to whether the touch is correct or not.
- Genibo will stop seeking the owners touch after series of incorrect touches.
- Genibo will feel very happy after 8 successful touches and vice versa if none of the touches are correct.
- Genibo will show varying response to the owner according to its 'character', 'intelligence', and 'mood'.

Understanding Genibo

Instinctive Behavior

In autonomous mode, Genibo will use the image recognition or interaction with the user to recognize its owner. Once the owner has been recognized, Genibo will use various actions to try to make the owner happy.

1. Desire to Seek Out the Owner/Desire for Attention

- Genibo acts in various ways to seek owners love and attention.
- In autonomous mode, Genibo wanders around seeking for the owner or acts in particular way to seek attention.
- When Genibo repeats some particular action, it is seeking for owners love and attention. Touch Genibo gently and it will recognize its master being near and try to act in various ways to interact with the owner.

Tip Be considerate of Genibo's desire for attention and treat it with love!

2. Desire to Explore the Surroundings

- Like a real puppy, Genibo is very curious about its surroundings.
- Genibo will explore its surroundings and pee, sniff, dig the ground, and show interest in various objects.

Understanding Genibo

Instinctive Behavior

3. Need to Exercise

- Genibo has an instinctive desire to exercise.
- If the owner does not exercise Genibo for a certain period of time, Genibo will exercise by itself to fulfill the need to exercise.
- Voice command can be used to command Genibo to exercise. (E.g., : Exercise, Let's exercise, etc)
- Exercise makes Genibo happy and gives it emotional satisfaction.

Tip Exercise Genibo once in a while using the voice command.

4. Hunger

- Genibo loves fully charged battery by an instinct.
- Genibo actively seeks to have the battery charged when the battery level is low.
- When the battery is nearly exhausted, Genibo will show some actions to indicate its status and then lie flat and automatically turning off the power.
- Refer to 'Charging' section of the manual for instructions on charging the battery.

Tip Genibos character may become short tempered and extreme if the power shuts off often due to discharged battery.

Understanding Genibo

Interactive Behavior

1. Interacting with Genibo

- Touch : When Genibo's touch sensors are touched, Genibo responds to them as emotional touches with interpretation of the touch depending on the time and the way it has been touched.
- Voice Command: Set voice commands could be used give Genibo various orders.
- Remote control can be used to order Genibo to take certain action, recognize voice, or recognize image.
- Genibo can use various means to recognize its owner.

Tip Refer to ' Interacting with Genibo', ' Touching Genibo', and ' Voice Command', section of this manual for details.

2. Interactive Behavior Response Time

- During the autonomous mode, Genibo responds immediately to a touch or remote control command.
- During the autonomous mode, Voice and Image Recognition process are run at random times.

Understanding Genibo

Sleeping

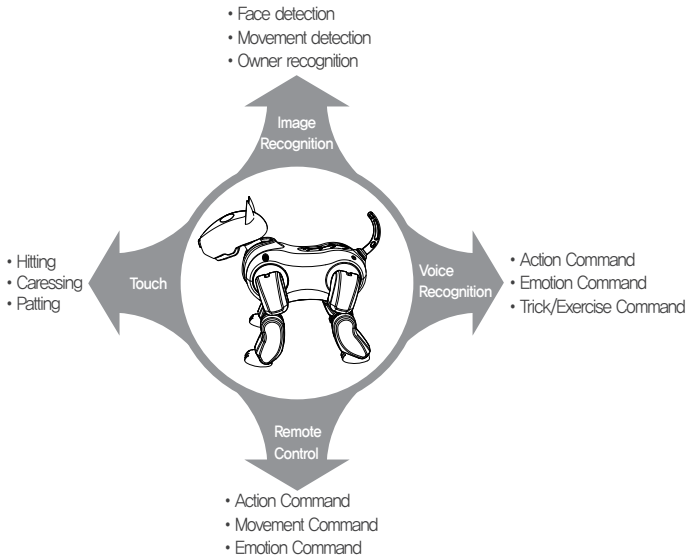
- When Genibo has no interaction with the owner for certain period of time, it becomes bored and falls asleep.
- Press 'Mute' button on the remote control to force Genibo to sleep during operation.
- Press 'Mute' button once again to keep Genibo quiet during sleep.
- Genibo will power off automatically after certain period of time if it's sleep is not interrupted by a touch or remote command.

Tip Genibo will wake up when it receives a remote command or when it is touched while sleeping.

Understanding Genibo

Interacting with Genibo

To interact with Genibo, touch the sensor on it's body, or give Genibo a command to take certain action using the remote control or voice command.



Understanding Genibo

Expressing Emotion

Genibo uses mixture of body movement, eye emoticon LED, and sound effects to express it's cureent emotion, feelings, mood, and the battery status.

1. Variety of emotional actions

- Genibo is capable of variety of emotional actions such as barking, playing cute, playing tricks, intelligent walking, and emotional walking.
- Genibo has been designed to express it's emotions naturally and respond from varying positions to fully express itself according to it's emotion, mood, character, and intelligence.

2. Various sound effects

- Genibo will growl or bark when it is angry and fall asleep snoring when sleepy.
- Once Genibo reconizes the owner's face, Genibo will try to make the owner happy with various sounse effects.

3. Eye Emoticon LED

- Genibo is able express its current eomitons using animated emoticon LED.



Normal



Surprised



Angry



Happy

Understanding Genibo

Expressing Emotion

4. Expressing emotion through tail LED

- Genibo is able to express its emotional state and the battery status using the color and the blink cycle rate of the left and right LEDs located on its tail.
- LED blink rate will become shorter if Genibo is angry, in bad mood, or low on battery. Blink rate will become longer when Genibo is sleeping.

5. LED colors according to Genibo's state

- Normal: Blue
- Low Battery: Pale Blue
- Angry or in bad mood: Red
- Happy: Purple
- Sleeping: Pale Purple

Tip Training Genibo

- Genibo loves being touched and patted. The more you touch and pat Genibo, happier it will be.
- Happy Genibo is smart Genibo. The more you make Genibo happy the more smarter and obedient Genibo will become.
- Genibo will be surprised when you first hit it but Genibo will become angry and go into foul mood if you keep hitting it.
- Genibo will grow up to be a vicious puppy the more you make him angry or sad.
- Genibo loves exercising. Exercise Genibo often to fulfill its instinctive desire.
- When first initialized, Genibo will be in normal mood and start with low character/intelligence/intimacy level.
- Play with Genibo often to make it love you.

Operating Genibo

Powering On

1. With the main power switch on, press and hold the power switch for over 3 seconds. The status LED will turn purple, eye emoticon LED will operate as shown below and Genibo will begin initialization.



2. After the initialization (lasting about 30 seconds), Genibo will wake up and stretch or take other actions depending on its character.
3. Once Genibo is fully awake, Genibo will be ready itself to listen to the voice command. If Genibo does not hear any voice commands, it will go into autonomous mode.

- Tip**
- To wake Genibo up properly, the body must be in horizontal position, immobile, without any touch input or interference to the joints.
 - During the initialization period, Genibo will not respond to touch input or voice commands. Genibo will start to respond to the commands and inputs after it stretches out its legs lying low.
 - Genibo's mood will be reset to 'normal' after powering on but 'intelligence', 'character', 'desire for exercise', and etc will be as before.
 - Refer to the 'voice commands' section of the manual for details on voice commands.

Operating Genibo

Normal Behavior after Powering On

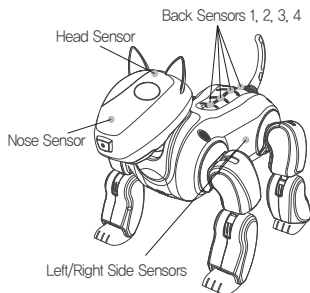
1. Normally, Genibo will look around while sitting or take other actions depending on the mood or battery status.
2. Genibo will occasionally check its surroundings using the 'Image Recognition' and 'voice recognition'.
3. Genibo will take certain actions when it sees a moving object, owner, or people.
4. Genibo may bark, exercise, or perform tricks depending on its mood.
5. Genibo will respond to all touches and remote commands or go into autonomous mode and act according to its needs if there is no interaction with the owner for certain period of time.

Tip Genibo loves to play together with the owner. If left alone for long period of time, Genibo will take various actions to attract the owner's attention and then fall a sleep and turn itself off.

Operating Genibo

Touching Genibo

Genibo has touch sensors on its back, head, nose, and both sides of its body. Genibo will respond with pleasure or anger depending on how it is touched. Location of the touch sensors and the touching method are as follows.



[Touch Sensor Locations]

1. Hitting

Lightly touch/hit 'Back Sensor', 'Head Sensor', 'Nose Sensor' for less than 0.3 seconds

2. Patting

Pat Left/Right side sensors for less than 0.5 seconds

Pat back sensor for 0.5 seconds or longer.

3. Stroking

Touch the head or nose sensor for more than 0.5~1 seconds (Rub slowly from the head to the nose)

Continuously touch the back sensor from 1 to 4 and vice versa.

Touch the chin just enough for the head to bob slightly for more than 1 second

Touch the left/right side sensor for more than .05 seconds (Genibo with high intelligence index will respond by turning)

Operating Genibo

Touching

4. Making Genibo Sit

Touch the back sensors #3 & #4 at the same time for more than 1 second
(Genibo will continue to sit while it is being touched)

5. Making Genibo Lie Flat

Touch the back sensors #1 & #2 at the same time for more than 1 second
(Genibo will continue to lie flat while it is being touched)

6. Making Genibo Stand Up

Touch the back sensors #2 & #3 at the same time for more than 1 second
(Genibo will continue to stand while it is being touched)

7. Left & Right

Touch the left/right side sensor for more than 1 second (Genibo will continue to turn while it is being touched).
If Genibo has low intelligence index, it will interpret this type of touch as patting.

Tip Genibo may become confused and act erratically if its touched during action or receives different types of touch continuously.

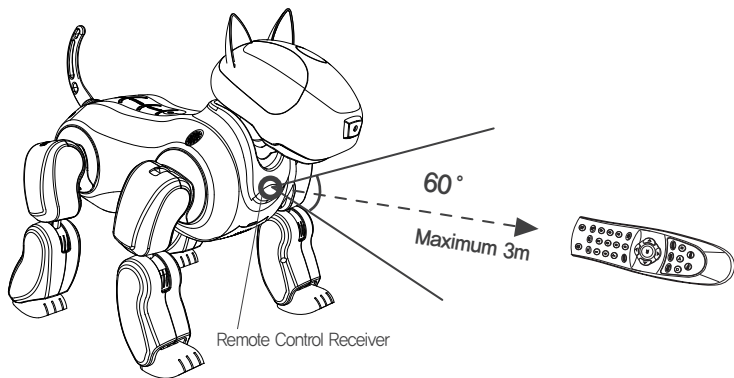
Caution Hitting or pressing hard on Genibo may damage Genibo. Gentle touch is the magic touch!
Do not force Genibo while it is moving!

Operating Genibo

Using The Remote Control

1. Remote Control Functions

- Genibo can be put to sleep or turned off.
- Genibo can be commanded to move forward/backward or turn left/right using the direction buttons.
- Genibo can be commanded to start image recognition, voice recognition, and owner registration.
- Genibo can be commanded to act out one of the funny movements, play game or contents.
- Volume control
- 'Menu' button is used to set wake-up calls, alarm, and other useful functions.



Operating Genibo

2. Assigning Remote Control Channel

- User is able to select among the 10 different channels available to the remote control.
The ability to assign a specific channel to the remote control prevents mixing of signals if there is more than one Genibo/Remote Control in the same area.

Tip 10 selectable channels from 0~9 are available to the remote control

- Make sure to change the 'receiver' channel on Genibo first prior to changing the remote control channel.
- To change the 'receiver' channel, press the 'Menu' button on the remote and follow the instructions.
- To change the channel of IR remote controller, keep pressing "OK" button, then press desired channel number on the remote controller.

Tip Genibo will not respond the remote control commands if the receiver channel does not match the remote control channel

Tip If Genibo does not respond to the remote control commands even when the remote control battery is full, change the remote control channel one by one from 0 to 9 and try to command Genibo using each channel until the matching channel is found.

3. Caution before Use

- Point the remote control towards Genibo when using the remote. Maximum distance is 3m.
- Genibo may not respond to the remote control while moving or if it is blocked by an obstacle.
- Genibo will respond promptly to the remote control commands in most cases.
However, it may also display extra motion expressing its displeasure if it is in a bad mood.

Operating Genibo

4. Remote Control Buttons



1 Power Off/Mute

- Press the button twice in a row or press and hold for 3 seconds or more to turn off Genibo
- Press the button once and Genibo will stop all current action, sit and look around while waiting for further command.
- Press the mute button once more while Genibo is in the wait mode and Genibo will lie flat and make no further movements.
- When Genibo is touched or given a command while it is in the Mute wait mode, Genibo will respond to the command and then go into autonomous mode.

2 Number/Menu Button

- Press any "number" button and then button to send particular command to Genibo.
- When any number button is pressed, Genibo will stop all action and show the pressed number on its eye emotion LED.
- If incorrect number has been pressed, pressing the button will cancel the incorrect number and Genibo will return to autonomous mode.
- Unless the remote control button is pressed for more than 10 seconds, input will be cancelled and Genibo will return to autonomous mode.
- Genibo will only respond to either or button after the number button has been pressed.
- If Genibo starts being charged after the number has been pressed, number button input will be cancelled and charging will continue.
- Use the button to perform various functions following the voice instructions.
- Refer to "List of Remote Control Codes and Dances" section to run provided contents and actions.

3 Movement Buttons

[In Autonomous Mode]

- Direction Button: Walks or crawls forward or backward

Tip • Will walk when in sitting position and crawl when lying flat
• Continuing to press the button while walking will increase speed

- Direction Button: Left or Right Turn

Tip • Genibo will turn left/right sitting or standing when not moving
• Genibo will turn left/right while walking
• Continuing to press the button will make Genibo turn faster when walking.

- Button: Position Change (Lying flat – Sitting – Standing Up: Repeat)

Operating Genibo

4. Remote Control Buttons



3 Movement Buttons

[Playing Contents]

- Direction Button: Move to previous 'Previous/Next' content category
- Direction Button: Move to 'Previous/Next' content

[After Pressing the HEAD Button]

- Direction Button: Adjusts Genibo's head up/down/left/right

4 HEAD/CONT Buttons

- When the **HEAD** button is pressed, Genibo will stop moving and turn its head according to the pressed move button while sitting in stable position.
Press the **HEAD** button once more to cancel the function (Used for taking photos)
- Pressing the **CONT** button will show the most recently played content.
Press the **OK** button to play the content or any move buttons to choose another content.

5 Buttons for Running Contents

- Stop Button
 - Stops playing the content and switches to autonomous mode.
 - Press the button twice (short presses) to start voice recording when in autonomous mode.
- Play Button
 - Plays the content.
 - Press the button twice (short presses) to listen to the previously recorded voice recording when in autonomous mode.
- Pause Button
 - Pauses the playing content, Genibo will switch to autonomous mode after 30 seconds of pause.
 - Press the button twice (short presses) to start taking photos.
- Volume Control: 10 volume levels

Operating Genibo

5. Remote Control Codes and Dance List

Remote Control #	Description	Note
1	Start Voice Recognition	Refer to 'Voice Commands'
2	Reord Voice Memo	Refer to 'Recording Voice Memo'
3	Play/Delete Voice Memo	Refer to 'Playing/Deleting Voice Memo'
4	Start Image Recognition	Refer to 'Image Recognition'
5	Register Owner's face	Refer to 'Registering Owner's Face'
6	Take Photos	Refer to 'Taking Photos'
7	Connect to Wireless LAN	Refer to 'Wireless LAN Connection/Disconnection'
9	Start Firmware Upgrade	Refer to 'Upgrading Firmware'
00~99	Games & Actions Provided by Manufacturer	Refer to 'Action Command List' & 'Running Games & Special Actions'
000~099	Manufacturer's Content Area	000 : Lovely 001 : White Scenery 002 : Date 050 : Little Calf 051 : Cute Child 052 : Clap-Clap-Clap 053 : 10's song 054 : I'm so happy
100~199	User's Content Area (Category divided by 100s)	When Released by the Manufacturer
200~299		100 : Gee
300~399		101 : Wanna
400~499		102 : Hands up
500~599		Dance Movements Only
600~699		
700~799		
800~899		
900~999		Refer to 'Downloading methods' and 'Playing Contents'

- Once the content play is started, contents will play continuously following the number sequence.
- Refer to the 'Remote Control Buttons' section of the manual for instructions on playing contents.
- Visit our website www.genibo.com to view more contents provided by the manufacturer as well as user created contents.
- 'Control Manager' sold separately is required to create or download contents.

Operating Genibo

6. List of Action Commands

Remote #	Action Name	Type
00	Owner Recognition game	Game
10	Feeding while lying flat	Feeding Actions
11	Feeding while standing 1	
12	Feeding while standing 2	
13	Male peeing 1	Relieving Actions
14	Male peeing 2	
15	Female peeing	
16	Pooing	
17	Stretching 1	Stretching Actions
18	Stretching 2	
19	Stretching 3	
20	Digging	Exploring Actions
21	Sniffing	
22	Scratching body	
23	Scratching chin	Emotional Actions
24	Stroking ears	
25	Lifting its bum	
26	Shaking its bum	
27	Slight head nodding	
28	Head nodding	
29	Standing & looking around	
30	Sitting & looking around	
31	Shaking front paws while standing	
32	Shaking rear paws while standing	
33	Kicking with rear legs	Movement Actions
34	Bending & Stretching legs	
35	Turning left while sitting	
36	Turning right while sitting	
37	Crawling forward	
38	Crawling backwards	
39	Walking left sideways	
40	Walking right sideways	
41	Normal walking	
42	Walking slowly	

Remote #	Action Name	Type
43	Walking fast	Greeting Actions
44	Hil	
45	Saluting	
46	90 deg bowing	
47	Traditional bowing	
48	Head shaking	Emotional Actions
49	Slight head nodding	
50	Head nodding	
51	What?	
52	What is this?	
53	Hitting the floor	Exploring Actions
54	Hitting the floor hard	
55	Growling while sitting 1	
56	Growling while sitting 2	Angry Actions
57	Growling while standing	
58	Angry while standing	
59	Howling while standing 1	
60	Howling	
61	Sobbing 1	Emotional Actions
62	Sobbing 2	
63	Lifting paws	Emotional Actions
64	Banzai	
65	National exercise	Exercise Actions
66	Boxing	
67	Taekwondo	
68	Aerobics	
69	Situp	
70	Yoga	Emotional Actions
71	Hitting the floor while lying flat 1	
72	Hitting the floor while lying flat 2	
73	Hitting the floor while lying flat 3	
74	Playing Dead	Trick Actions
75	Trashing	
76	Standing on its head	

Operating Genibo

Voice Commands

1. Voice command timing

- Right after Genibo stops autonomous movement and shows (??) on eye emoticon LED with “dang” sound.
- Touch the head sensor for 3 seconds or more until “dang” sounds and (??) show on eye emoticon LED.
- Press ‘1’ button then ‘OK’ button and “dang” will sound and (??) will show on eye emoticon LED.

2. Tips on Using Voice Commands

- Speak to Genibo from about 50cm~1m distance from the two microphones located on Genibo’s shoulders.
- Make sure to include the word “Genibo” when giving voice command.
Examples: “Sit Genibo” or “Shake Genibo”.
- Voice commands should be spoken clearly in a voice louder than the surrounding noise but not too loudly.
- Genibo will record for 3 seconds after the “dang” sound and the (??) on the eye emoticon LED, the recording may continue up to 10 seconds if Genibo continues to hear a voice after 3 seconds. Speak your commands about 1~2 seconds after the “dang” sound.
- Command should be spoken only once. Genibo will become confused if the command is repeated.
- Do not make noise or speak after the voice command until Genibo starts to move. Once Genibo recognizes the voice command, it will make a “ding dong dang” sound and start to move.
- Genibo will not recognize the voice command if it is on the move or not ready for voice command.
- Sounds from the TV or Radio can interfere with the voice commands. Voice commands will work better in a silent environment.
- Only the commands in the ‘Voice Command List’ will work.
- Genibo may not obey your voice commands even if it is recognized if Genibo is in a bad mood or has low intelligence. Loved Genibo is an obedient Genibo.

Operating Genibo

3. Voice Command List

You should call "Genibo", before commanding any recognizable word

Commnd Type	Action	Recognized Vocabulary List (including derivatives)
Basic Commands	Move Forward	Go forward
	Move Back	Go backward, Go back, Back
	Sit Down	Sit down, Sit
	Lie Flat	Lie down, Down
	Stand Up	Stand up
	Turn Left	Turn left
	Turn Right	Turn right
	Big Bow	Bow
	Shake Paws	Give me your paw, paw
	Hi! (Waving Paws)	Hello
	Bob Head (Show off)	Good dog, Good boy, Good girl, Good
	Remorse	Bad dog, Bad boy, Bad girl
	Bark	Bark
	Paws Up, Don't Move	Hands up, Hand up
	Sit and Wait	Wait, Stay
	Move Towards Human	Come here, Come
Move Next/Behind Human	Go away	
Exercise & Trick Commands	Exercise	Exercise
	Trick actions	Show your trick, Roll over

Operating Genibo

Voice Memo Recording




Genibo can be used to record and listen to voice memos.
It's a fun way to send and receive messages.

1. Genibo will stop moving, sit down to get ready for voice memo recording after two short presses of **[M]** button.
2. Voice announcement "Leave your memo after the beep" will be heard. Start the memo after the "beep".
3. Maximum record time is 30 seconds. Voice announcement "ding-dong-dang recording your memo" will be heard after the recording. Record multiple memos if the memo is longer than 30 seconds.
4. Memo recording will stop if **[OK]** button is pressed or when the memo goes over 30 seconds. Voice announcing the recording of the memo and memo file number will be heard. Pressing the **[ESC]** button during the recording will cancel the memo recording and Genibo will make a voice announcement and switch to autonomous mode.
5. Genibo will switch to autonomous mode after saving the voice memo.
6. When there is not enough space left for recording, voice will announce 'not enough space, delete and try again' and switch to autonomous mode.
7. Genibo is capable of recording up to 50 voice memos. Voice memo number will be announced after the memo and the number will also show on the eye emoticon LED.

Operating Genibo

Listening voice record

Please follow instruction below to listen recorded voice from Genibo.



1. Press the  twice quickly and Genibo will go into record playback mode with an announcement.
2. In the playback mode, recorded voice memo number will be shown on the eye emoticon LED.
3. Recorded memo can be played back using the remote control or touch.
 - Use the left/right side touch to select the memo and use the back touch to play back the selected memo.
 - Press the memo number +  on the remote control to play back the memo.
4. Genibo will switch to autonomous mode when  is pressed while it is waiting for new reordering or playing back the memo.

Tip Genibo will not respond to external touch, voice, or cliff while it is in the middle of recording/deleting/playing back voice memo.

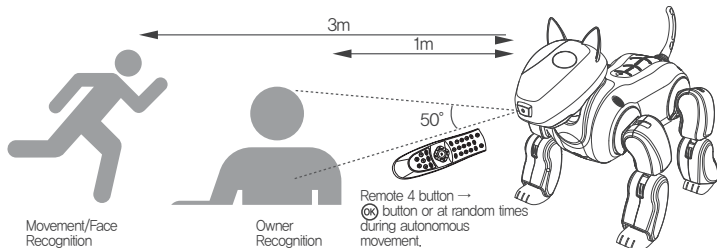
Operating Genibo

Image Recognition

Genibo will use the camera located on it's nose for image recognition and show various responses to the result,

1. Genibo is able to recognize objects located within 50 deg radius from its head.
2. Genibo is able to recognize moving objects, human face, and the owner's face (if registered).
3. Genibo will attempt image recognition at random times during the autonomous mode or by pressing  button and  button.
4. Genibo will sit or stand still for about 2 seconds during the image recognition.
5. Genibo is able to recognize moving objects with 1m ~ 3m distance from it's nose.
6. Owner's face is best recognized at 1m distance.
7. Persons face or owner's face can only be recognized from the front. Sideway features are not recognized.
8. Genibo will show various movement patterns when it recognizes an object through image recognition.

Tip Image recognition does not function well when there is low lighting or back lighting.
This feature is heavily dependent of the surrounding environment.

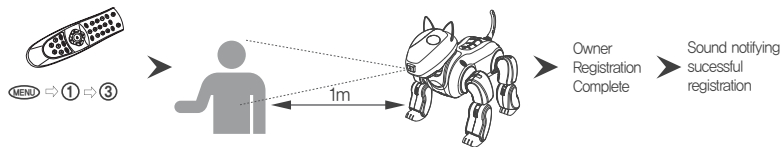


Operating Genibo

Registering Owner's Face

Genibo must first take photo of the owner's face and go through image recognition process before the owner's can be recognized. Owner's face must also be registered.

1. Face Genibo at about 1M distance.
2. Press the remote control buttons in the following sequence **MENU** ⇒ **1** ⇒ **3**
3. Genibo will stop all movements and face the owner.
4. Watch Genibo's nose for about 10~15 seconds without moving.
5. Once Genibo finds the face, several 'click' sounds will be heard and owner's face will be registered.
6. Once the face has been registered, Genibo will make particular sound and action and end the registration process.
7. Maximum of 10 faces can be registered. Additional registration beyond maximum number will result in automatic deletion of the first registered face to make more room.



Tip Owner's face registration should be done at a location with good lighting. It takes approximately 10 ~ 15 seconds to register a face. Genibo will whine and switch to autonomous mode with out registering a face if it finds the same face already registered.

Operating Genibo

Taking Photos

Photos can be taken using the camera located on Genibo's nose.
Try sending Genibo to an interesting location and take photos and return.

1. Pressing **II** button on the remote twice rapidly will make Genibo stop all action and sit down to take photos.
2. Once the preparation is done, Genibo will announce "Taking a photo, adjust the camera to desired direction and press the **OK** button."
3. Use the direction buttons to adjust the camera's direction (**HEAD** button does not have to be pressed)
4. Press the **OK** button after the adjustment is done and photo will be taken with 'click' sound effect. Press and hold **OK** button to take continuous photos.
5. Genibo will switch to an autonomous mode without an input from the remote for more than 30 seconds or if **ESC** is pressed.

Tip Genibo will not respond to external touch, voice, or cliff during the photo mode.
Genibo will cancel the photo mode and switch to autonomous mode if it is lifted or falls over during the photo taking.

Operating Genibo

Setting AP for wireless LAN Connection.

The followings are Robot set values. Please refer to the following values for AP set

[Robot set value]

SSID : dasa_genibo, Certification : Open, Encode Method : WEP, Code : 1234567890 (64bit)

Fixed IP Method : IP : 192.168.1.2 / Gateway : 192.168.1.1 / Netmask : 255.255.255.0

Wireless LAN Connection/Disconnection

Connect to PC LAN/Wireless LAN Router (AP) by turning on the built in wireless USB LAN adapter.

- 1 Press the remote control buttons (7) → (OK). Genibo will stop all action and prepare to connect to the wireless LAN
- 2 Once Genibo is ready to connect, it will make an announcement "Connecting to Wireless Lan" and start the connection process.
- 3 Once Genibo is connected to the wireless LAN, it will make an announcement "Connected to Wireless LAN" and then switch to autonomous mode.
- 4 If Genibo can not make the connection after trying twice, it will make an announcement "Can not make connection to the wireless LAN, please check to make sure the router is turned on and try again" and then switch to autonomous mode.
- 5 Pressing the (ESC) button while the connection is in progress will cancel the connection process and Genibo will switch to autonomous mode.
- 6 If Genibo is already connected to the wireless LAN, Genibo will make an announcement stating that it is already connected to the wireless LAN.
- 7 When the connection is complete, tail status LED will blink in blue.
- 8 For Firmware upgrade, press (9) → (OK) button while the network is connected.

Tip Genibo may not be able to connect to the wireless LAN immediately after powering on due to memory ready process. If this is the case, wait few minutes before trying again.

Operating Genibo

Running Games and Special Actions

Have more fun with Genibo by playing 'Recognize the Owner' game and other special actions.

1. Recognize the Owner Game

This game is played by touching Genibo's touch sensors.

(Refer to the 'Touching Genibo' section of the manual for touch sensor locations)

The game is played by touching the correct touch sensor when Genibo makes a certain gesture asking to be touched. When the correct sensor is touched, Genibo will show his pleasure by making a happy gesture and vice versa. The more the correct touches and happier Genibo will become and show his pleasure by performing a special trick.

- Press the **1** **2** **OK** buttons on the remote to start the game. Game will start with a sound.
- Watch Genibo's movement carefully and then quickly touch the sensor at the location indicated by Genibo's motion.

2. Special Actions

Genibo is capable of more than 1,200 actions and some of especially interesting actions can be grouped together to be run by the remote control.

Bring your friends and show them what Genibo can do.

- Find an action from the 'Action Command List' in the manual. Press the matching number on the remote control and then press **OK**

Operating Genibo

Running Contents

1. Running Manufacturer's Contents

Genibo includes folk songs, pop songs, and dance movements matching the dance music. Watch Genibo's funky dance moves.

- To watch Genibo dance, find the dance code in the 'List of Remote Control Codes and Dance' in the manual. Press the dance code on the remote and then press **OK**.

2. Adding and Running User Created Contents (Requires Content Manager Sold Separately)

Users are able to create and add their own contents using the Content Manager as well as downloading

- Content must be assigned a number between 100 ~ 999 in order to be run. (Genibo includes 3 dances with assigned numbers 100,101, and 102. The dance music has to be added by the user following the instructions in the 'Downloading Files' section of the manual.)

- Tip**
- To play the content, press the content number followed by OK button (Content # will show on eye emoticon LED).
 - Once the content play starts, it will continue to run in sequence until the play is stopped.
 - Pause (**⏸**) button and (**▶**) play button on the remote can be used to temporarily stop and restart the running content. Pressing the (**■**) stop button will stop the content and Genibo will switch to autonomous mode. (Genibo will also switch to autonomous mode after 30 seconds in the pause mode).
 - Use the direction buttons on the remote to stop the running content and switch to previous/next content or previous/next content category.
 - Content can not be run immediately after powering up Genibo as it takes about 5~10 to prepare the memory to run contents.

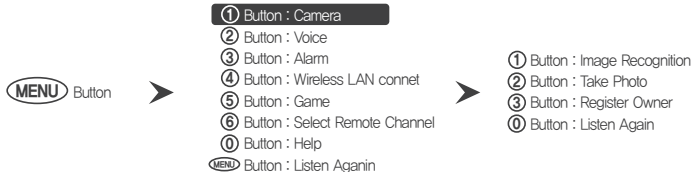
Operating Genibo

Using the Menu

Use the 'MENU' button on the remote control to run various features through the voice instructions and also to listen to help.

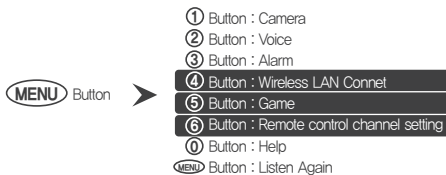
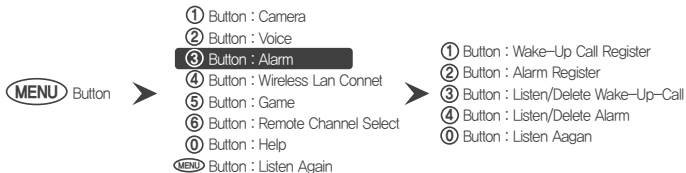
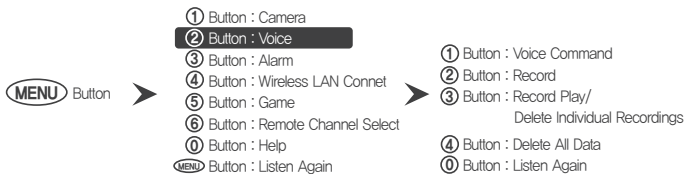
- Pressing the **MENU** button during the autonomous mode will make Genibo stop all current action and begin the voice instruction.
- Genibo will switch to autonomous mode if there is no button input for more than 10 seconds or if **ESC** button is pressed during the instruction.
- When a number button is pressed during the instruction, voice instruction will stop and the command corresponding to the pressed number will run.

Voice Instruction Structure



Operating Genibo

Voice Instruction Structure



Operating Genibo

Voice Instruction Structure



- Tip**
- If there is no additional command from the remote for 10~15 seconds, it will be treated same as **ESC** button being pressed.
 - When **ESC** button is pressed, menu will move to the upper level or leave the menu section altogether and switch to autonomous mode.

Make sure to change both the remote receiver channel on Genibo as well as the remote control channel when assigning new channel.

If there is no response from Genibo after assigning a new channel to the remote control, return to the previously used remote control channel (To change the remote control channel, press **OK** button and the number button, factory default channel is 0)

Operating Genibo

Downloading and Saving Files

Genibo includes dance contents (Gee, Wanna, Hands up). Users can download their own mp3 files following the instructions below and let Genibo dance to the music.

1. Hold Genibo with his stomach facing up, lightly press the 'PUSH' section found towards the rear and gently lift up the cover to find the SD memory card on the left side. Give the SD card a slight push to release the lock and take the memory card out. Insert the memory card into the SD card reader on your PC or Notebook Computer.

Tip Be careful not to hurt yourself (especially the finger nail) when lifting up the memory cover. Memory cover is designed so that it can not be easily opened by the children.

2. Save the Tellme, Girls's Generation, and Nobody mp3 files to the /contents/mp3/user directory.
3. mp3 file names must be less than 15 English characters and the file extension must be 'mp3'.
Example) Gee : gee.mp3 Wanna : wanna.mp3 Handsup : hands.mp3
4. Once the mp3 files are saved, insert the memory card back into Genibo and close the cover. Make sure the memory is being inserted in the right direction (memory card will not go in if it is being inserted in the wrong direction). Push the memory card all the way in and make sure it has been inserted properly.
5. Turn on Genibo and run the Control Manger program. In the edit window, select and set the remote control number to the provided motion title.

Tip Make sure to assign the remote control number to the saved mp3 file using the Control Manger Program

Caution Be careful not to allow dirt or other foreign matter inside the case. It may cause electric shock or personal injury.

Operating Genibo

Upgrading Firmware

Genibo is supported by S/W upgrade to maintain optimal condition. Follow the instructions below to upgrade the software.

1. There are two steps in upgrading the Firmware. Downloading the file from the Genibo website to Genibo and installing the downloaded file.
2. Downloading of the file is done automatically if Genibo is connected to the internet through the wireless LAN for certain amount of time. Other method is to download the file manually.

Tip To connect Genibo to the internet, turn on the wireless usb adapter using the remote control, connect to the router. Internet connection is automatic as long as the router is connected to the internet.

3. Genibo automatically checks for the updated file when it is powered on. When Genibo finds an updated file, it will install the file together with voice announcements requesting update confirmation, update progress, and update completion.

Tip Press the **MENU** **1** **9** remote control buttons to find out the software version through the voice announcement

4. After the update is complete, Genibo will be ready for operation after the reboot.

Genibo Specifications

Category	Specifications
Size	192mm x 334mm x 300mm (W x L x H)
Weight	1.7Kg
Touch Sensors	Head 1, Nose 1, Back 4, Shoulders 2 (L/R), Sides 2 (L/R)
Internal Sensors	Camera, Distance Sensor, Microphone for Voice Recognition, Tilt Sensor, Paw sensor, Remote Receiver Sensor
Battery	Li-ion Battery, 7.4V, 2600mAh Charge Time : Approximately 150 minutes Run Time : Approximately 90 minutes
Charger	Input Voltage: AC 100 ~ 240V at 50/60Hz Output Voltage : DC 9V, 2.5A

※ Battery charge time and run time may vary depending on the length of usage and conditions.

Troubleshooting

✔ **Power does not come on.**

- Check to make sure the main power switch on the Genibo's stomach is turned on.
- The battery maybe completely discharged, use the charger to charge the battery.

✔ **Battery does not charge.**

- Make sure the main power switch in ON.
Battery will not charge if the main power switch is OFF.
- Check to make sure the adapter is properly pugged in.
- Check the 'Charge status LED lamp' located at the tail.
LED will be 'red' while charging and 'blue' once the charge is complete

✔ **Genibo is either sitting or lying flat and not making much movement.**

- Genibo maybe in bad mood and lack strength due to low battery. Check the battery level and charge the battery.
- Genibo maybe in the sleep mode and sleeping. Genibo will automatically turn off the power if it is not touched for certain amount of time.

✔ **Genibo has trouble walking, falls over, has difficulty moving**

- Genibo moves best on flat even surface such as wooden or laminate tile floors.
- Genibo will have trouble moving naturally on surfaces with lots of friction or on carpets with long hair due to extra pressure on its joints. Genibo may experience failure if it is used in such an environment for long period of time.

Troubleshooting

✔ Genibo's legs lack strength

- This may happen if Genibo has been lifted up for long period of time. Genibo will get back to normal when it is placed on the floor and kept on balance.
- Genibo will power off and the joints will become loose after certain period in charge mode or sleep mode.

✔ Genibo does not respond to the remote control.

- Check the remote control battery.
- Check for obstacles between the remote control and Genibo.
- Remote control channel may not match the receiver channel on Genibo. The default channel is 0. If the mismatched channel is the problem, press and hold the 'OK' button and then press the number button between 0~9 and then release the 'OK' button to change the remote control channel. Try with all channels to find the matching channel.

✔ Eye emoticon LED is on but Genibo does not move.

- Check the battery level to make sure there is enough power.
- Try turning on and off the power. If the problem continues, contact the customer support center.

✔ Legs and joints are making 'grinding' sound.

- Genibo has slip-gears to protect the joints. The 'grinding' sound comes from the slip-gears when the joints become overloaded and it is normal under such a condition.
- Contact the customer support center if the noise continues without any particular reason.

Service Information



Consumer Rights

Consumers have the right to receive free repair service within the 12 months from the purchase date in case of the product failure. However, necessary service cost will be charged inevitably even if the product is under warranty period in case of the troubles due to customer's mistake or natural disaster.



Liability for charged services (Consumer liable for costs)

Consumer will be charged for the services rendered even within the 12 months period under the following circumstances.

1. Not a product failure

- Make sure to read the user's manual carefully as service fee will be charged if the product is brought in for service when there is no failure. (If the product is beyond repair, it will be subject to special standard)

2. Failure due to mishandling by the consumer

- Failure due to erratic power or faulty power supply
- Failure due to foreign matter inside the product
- Failure or damage due to external shock or from being dropped
- Damage or loose of parts due to disassembly by the consumer
- External damage or deformity caused by corrosive liquid, paints, thinners, benzene, and etc.
- Failure due to failure to abide by the "safety instructions" in the owner's manual.
- Any other failure caused by an external event or mishandling by the consumer and not by the defect in the product.

3. Other Causes

- Failure due to natural disasters (lighting, fire, storm, gas, tsunami, earthquake, and etc)
- Exchange of normal consumable parts such as the battery.

Service Information



Product Warranty

Product Name : Intelligent Pet Robot "Genibo"

Model Name : Genibo-SD

Serial No. :

Purchase Date : YY MM DD

Consumer's Contact Detail

Name

Address

Contact.No.

E-Mail

※ Keep the warranty card in safe place as it will be required as a proof to show the purchase date when requesting for service.

1. Quality Assurance of this product is hereby stated and thus warranted.
2. Make sure to receive the purchase date as warranty period will begin from the date of the purchase.
(If the purchase date cannot be confirmed, warranty period will begin 6 months after the manufacture date)
3. Keep this warranty card in safe place together with the manual. Warranty cards will not be replaced.

Consumer Compensation Guide

	Trouble Types	Comensation Details	
		Within warranty period	After warranty period
Performance, functional failure during normal use. (Within warranty period)	Major repair required within 10 days from the purchase date	Product Exchange Refund	
	Major repair required within 1 month from the purchase date	Product Exchange	
	Exchanged product require major repair within one month of exchange	Refund	
	Exchange not possible	Free Repair	
	Defective Product		
	Recurring defect (4 times) even after the repair of the said defect		
	4 repairs made due to different parts failure, 5th failure occurred		
	Beyond Repair	Product Exchange Refund	
	Beyond Repair due to lack of parts		Refund depreciated amount + 10%
Loss of product brought in for repair			
Damage caused during transportation when purchasing the product			
Performance & Function failure due to consumer mishandling, accidental or otherwise.	Repairable	Charge applies	
	Beyond Repair due to lack of parts	Replacement after charging necessary repair cost	
	<ul style="list-style-type: none"> Failure due to natural disasters (fire, storm, earthquake, tornado, and etc) Replacement of consumable parts Failure due to erratic power or faulty power supply Failure due to external cause and not product defect Failure due to repair or modification done by unauthorized person. 	Charge applies	Charge applies

※ Please contact Dongbu Robot customer support center for any problems or issues during the use of the product.
Warranty period is for 12 months (Internal battery and consumable parts excluded)

Repair service request/Information

Customer Support Center Tel : **+82- 80-329-5482** (Hours : Mon~Fri 10:00~17:00), LOCAL TIME)

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- Read and follow the safety.
- Warranty card is included in the User Manual.



Genibo(White)



Genibo(Pink)



Genibo(Blue)



Dongbu Robot

Dongbu Robot Co., Ltd.

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