

# User Manuals

## Freezing of Gait Aid System

Model GA100/GA101/GA102



GA100-IFU-EN  
V1.7

受控文件

## REVISION HISTORY

| Version No. | Contents and reasons for revision                                                 | Revision date | Reviser      |
|-------------|-----------------------------------------------------------------------------------|---------------|--------------|
| V1.0        | New Fiction                                                                       | 2021-11-03    | Qianyu Liu   |
| V1.1        | Update the content according to the requirements of external inspection agencies  | 2022-05-17    | Qianyu Liu   |
| V1.2        | Changed content of contradictions                                                 | 2022-09-21    | Qianyu Liu   |
| V1.3        | 1.Add product model: GA101、 GA102<br>2.Added Intended use of the app              | 2023-02-22    | Hongyuan Wu  |
| V1.4        | Change the punctuation, replace the Chinese punctuation with English punctuation. | 2023-05-30    | Hongyuan Wu  |
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| V1.6        | Add model information on the cover page<br>Add CE identification and explanation  | 2023.07.14    | Chen Xiaotao |
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App Store

## Description of terms in this manual

|                                                                                                |                                                                                                                                                         |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Warning   | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.                                             |
| <br>Caution   | Indicates a potentially hazardous situation which, if not avoided, may result in invalid data collecting, damage to the equipment or invalid operation. |
| <br>Attention | Information necessary to be known before using the equipment.                                                                                           |

## 1. INTENDED USE

Freezing of Gait Aid System (hereinafter referred to as "the product") is used to collect Freezing of Gait (FOG) data and alleviate FOG through visual and auditory cue, help people with Parkinson's Disease improve their gait. This product is suitable for FOG patients.

The Freezing of Gait Aid System should be used with SKYWALK App. The functions of SKYWALK App contain: supports the registration of GYENNO ID, login or logout of account, support the pair/unpair of Freezing of Gait Aid System, help Freezing of Gait Aid System connect to wireless network and configure wearable mode, parameter settings, and display results of freezing gait related information.

## 2.SAFETY INFORMATION



### **WARNING**

1. Do not place or store this device near an open flame or heat source.
2. Do not use a damaged power cord or outlet.
3. Do not use other charging base that are not designed for this product to charge it.
4. For patients with pacemakers or other electrical stimulation devices, please do not place the product near your heart or other electrical stimulation devices due to the magnetic components of the straps.
5. Do not plug or unplug the power cord with wet hands.
6. Do not do any judgement or treatment according to the data and results.
7. Class 1 laser product, Laser has radiation, avoid directing the laser beam towards the eye of any person.
8. Do not use this product in a place where there is a flammable gas which might cause an explosion.
9. The user must perform a safety check on the system before each use, and ensure that the system can be safely used and working properly.
10. When the patient's body is connected to other devices at the same time, the total amount of leakage current may exceed the allowable limit and pose a potential hazard to the patient.
11. Equipment or devices interconnected with this product must comply with the requirements of GB9706.1-2007 of "Medical Electrical Equipment Part 1: Safety General Requirements". Equipment or devices that have not been tested by a national inspection agency may not be interconnected with this product.
12. Although all patient contact parts have undergone bio-compatibility testing, very few people may have allergic reactions and should be discontinued for patients with allergic reactions.
13. The various accessories of this product cannot be replaced at randomly. If you need to replace it, you should use the accessories provided by the company or the same model, and standard accessories attached to the system, otherwise it may bring safety, bio-compatibility, etc. bad consequences of the aspect.
14. If the product falls unexpectedly or causes other malfunctions, it cannot be used.
15. Repairs should only be carried out by qualified service personnel designated by the manufacturer.

16. Avoid contact with wounds and scars.
17. Do not use the instrument in high-voltage equipment or in a high-static environment, as it may cause sparks due to transient discharge.
18. Do not use this product outdoors in inclement weather.
19. Do not use the Binaural earphones.
20. Disposal of this product must be handled in accordance with local regulations, otherwise it may cause pollution.
21. Use this product with caution when working on wet floors.
22. Please use the laser hint function of this product carefully in bright light environment.
23. Please be cautious in using the audio hint function of this product in noisy environments.
24. When using this product, you must pay attention to the surrounding environment.
25. FOG patients are high-risk groups who fall, it is still necessary to take protective measures for falls while using this product.



1. Please do not use this product while charging.
2. If the product accidentally falls into water or other liquid during charging, please unplug the power cord immediately, pick the product and wipe it in time.
3. If the product accidentally falls into the water during use, please take it out in time and use it after it is completely dry.
4. Do not use this product under strong magnetic field conditions.
5. Do not disassemble or modify this product yourself.
6. If there is any problem before or during use of the device, it is recommended to consult the doctor or manufacturer.
7. Initial use by the user may take some time to adapt to the visual hint or auditory hint of the product.



1. Clean the attachments before using the equipment.
-

### 3.Review

#### 3.1 BRIEF INTRODUCTION

The product collects and automatically analyzes the user's gait data through motion sensors, intelligently identifies FOG, and gives visual (laser) and/or audible (audio) hint to help the user unfreeze. At the same time, the product records the information of the user's frozen gait, which can assist the doctor to quantitatively evaluate the patient's symptoms.

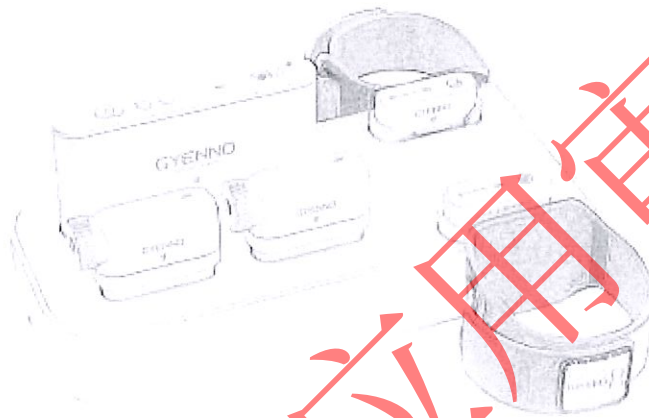


Image 1 Freezing of Gait Aid System

#### 3.2 COMPOSITION

This product is mainly composed of AI center, laser (GA100/GA102 Configured 2, GA101 Configured 1), collector (GA100/GA101 Configured L/R), earphone and application software.



AI Center



Laser



Collector(L)



Collector(R)



Earphone



App

Image 2 Product Composition

The part list of this product shows as follows:

| Item No.       | Part Name              | Part Model    | Product Model                                      | Product Model GA101                    | Product Model GA102                   |
|----------------|------------------------|---------------|----------------------------------------------------|----------------------------------------|---------------------------------------|
|                |                        |               | GA100                                              |                                        |                                       |
|                |                        |               | Support three wearing solutions(Waist, Cane, Vamp) | Support three wearing solutions(Waist) | Support three wearing solutions(Vamp) |
| 1              | AI Center              | PU100         | 1                                                  | 1                                      | 1                                     |
| 2              | Laser                  | L100          | 2                                                  | 1                                      | 2                                     |
| 3              | Collector (Left)       | SM120L        | 1                                                  | 1                                      | -                                     |
| 4              | Collector(Right)       | SM120R        | 1                                                  | 1                                      | -                                     |
| 5              | Earphone               | E100          | 1                                                  | 1                                      | 1                                     |
| Accessories    |                        |               |                                                    |                                        |                                       |
| 6              | Waist belt             | -             | 1                                                  | 1                                      | -                                     |
| 7              | Cane strap             | -             | 1                                                  | -                                      | -                                     |
| 8              | Ankle strap (Left)     | -             | 1                                                  | 1                                      | -                                     |
| 9              | Ankle strap (Right)    | -             | 1                                                  | 1                                      | -                                     |
| 10             | Vamp strap (Left)      | -             | 1                                                  | -                                      | 1                                     |
| 11             | Vamp strap (Right)     | -             | 1                                                  | -                                      | 1                                     |
| 12             | USB charging cable     | -             | 1                                                  | 1                                      | 1                                     |
| 13             | Charging base          | CB100         | 1                                                  | 1                                      | 1                                     |
| 14             | Hand Strap             | -             | 1                                                  | 1                                      | 1                                     |
| Wireless Parts |                        |               |                                                    |                                        |                                       |
| Item No.       | Part Name              | Part Model    | FCC ID                                             |                                        |                                       |
| 1              | AI Center              | PU100         | 2ACGF-GA00A                                        |                                        |                                       |
| 2              | Laser                  | L100          | 2ACGF-GA00B                                        |                                        |                                       |
| 3              | Collector(Left, Right) | SM120L,SM120R | 2ACGF-GA00C                                        |                                        |                                       |

Chart 1 Model Configuration Chart

3.2.1 AI CENTER

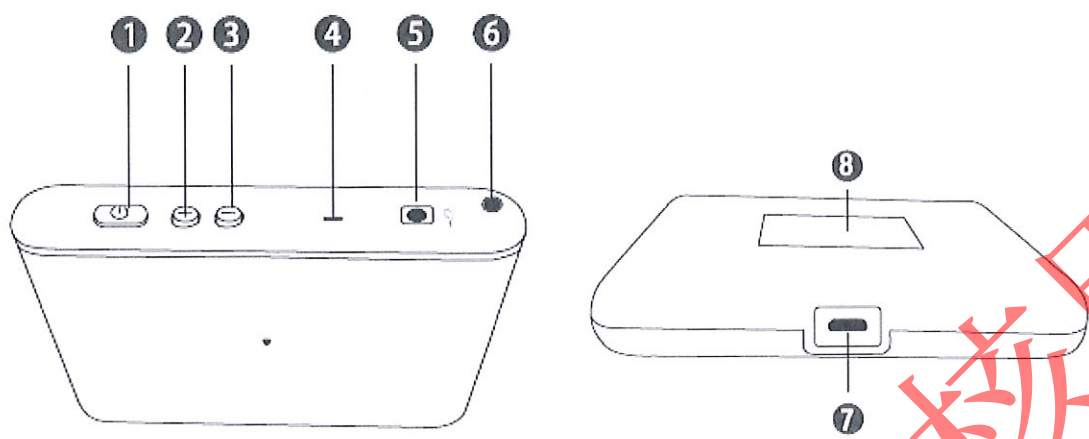


Image 3 AI Center

Name: AI Center    Model: PU100

| Part | Description                                                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | On/Off button<br>- Click to open the AI Center when it is shut down.<br>- Click to turn on/turn off the hint when the AI Center is turned on<br>- When the calculation center is turned on, press and hold the AI Center for about 3 seconds to turn it off. |
| 2    | Volume button "+"<br>- Increase the volume.                                                                                                                                                                                                                  |
| 3    | Volume button "-"<br>- Decrease the volume.                                                                                                                                                                                                                  |
| 4    | The indicating light shows the working status of the AI center. For details, see "4.3 Indicating Light Description".                                                                                                                                         |
| 5    | Earphone phone jack for inserting earphone.                                                                                                                                                                                                                  |
| 6    | Hand strap hole for attaching a hand strap.                                                                                                                                                                                                                  |
| 7    | Charging hole for plugging in the charging base.                                                                                                                                                                                                             |
| 8    | The tag, which contains a QR code, can be used to perform device binding operations by scanning the QR code to the application software.                                                                                                                     |

Chart 2 AI Center Description

### 3.2.2 LASER

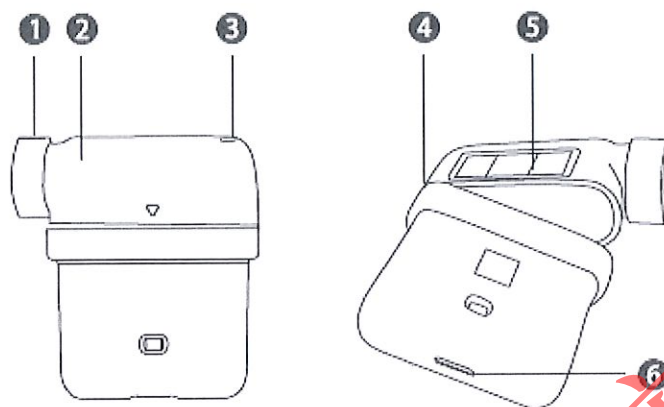


Image 4 Laser

Name: Laser Model: L100

| Part | Description                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------|
| 1    | Lens knob.                                                                                                            |
| 2    | Laser head.                                                                                                           |
| 3    | The indicating light shows the working status of the laser node. For details, see "4.3 Indicating Light Description". |
| 4    | The rotating shaft can be rotated to adjust the direction of the laser line.                                          |
| 5    | Laser warning label.                                                                                                  |
| 6    | Charging hole for plugging in the charging base.                                                                      |

Chart 3 Laser Description



#### WARNING

Class 1 laser product, Laser has radiation, avoid directing the laser beam towards the eye of any person.

3.2.3 COLLECTOR

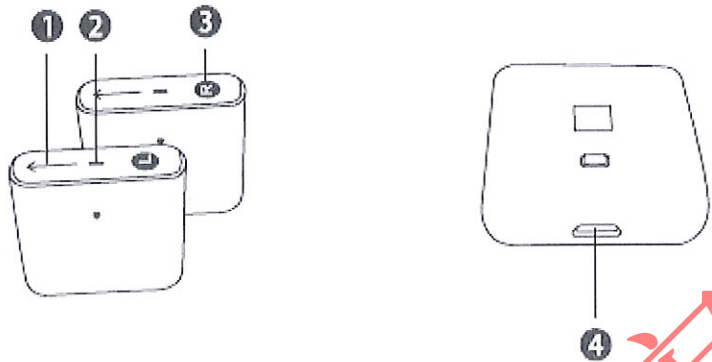


Image 5 Collector

The collector is divided into two models:

- 1)Name: Collector(Left)    Model: SM120L:
- 2)Name: Collector(Right)    Model: SM120R:

| Part | Description                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------|
| 1    | Indicator arrow for wearing direction.                                                                                         |
| 2    | The indicating light shows the working status of the collector, for details, see "4.3 Indicating Light Description".           |
| 3    | Wearing location identifier:<br>- "R" stands for the location on the right ankle;<br>- "L" stands for the left ankle location. |
| 4    | Charging hole for plugging in the charging base.                                                                               |

Chart 4 Collector

### 3.2.4 EARPHONE

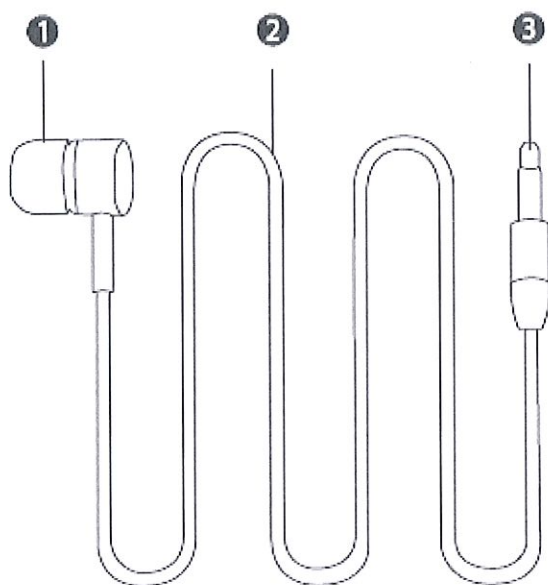
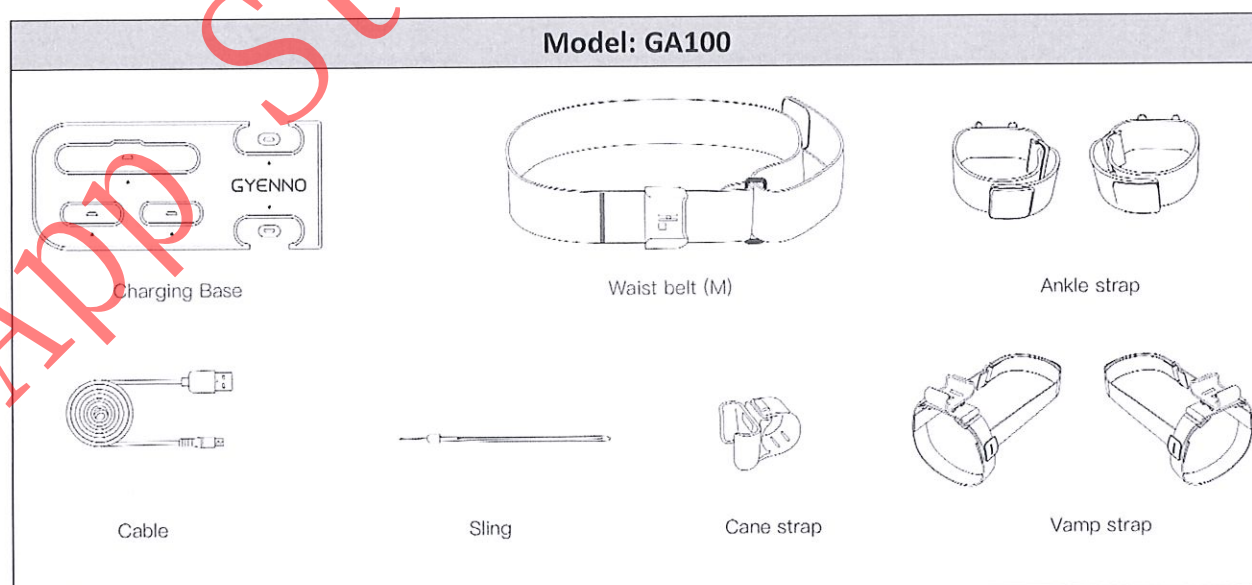


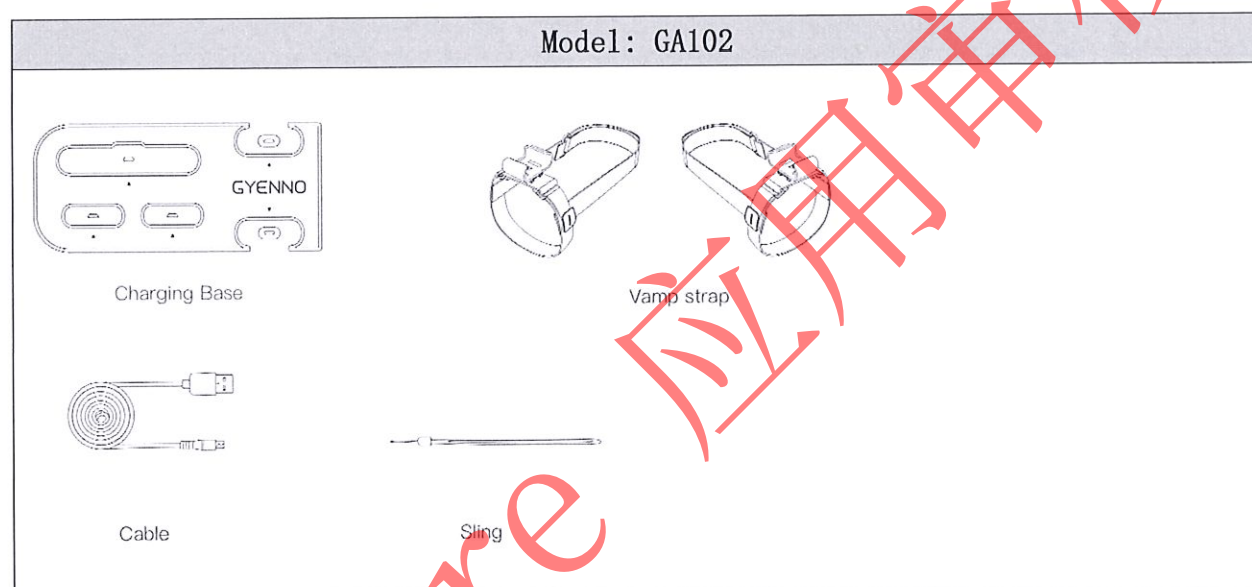
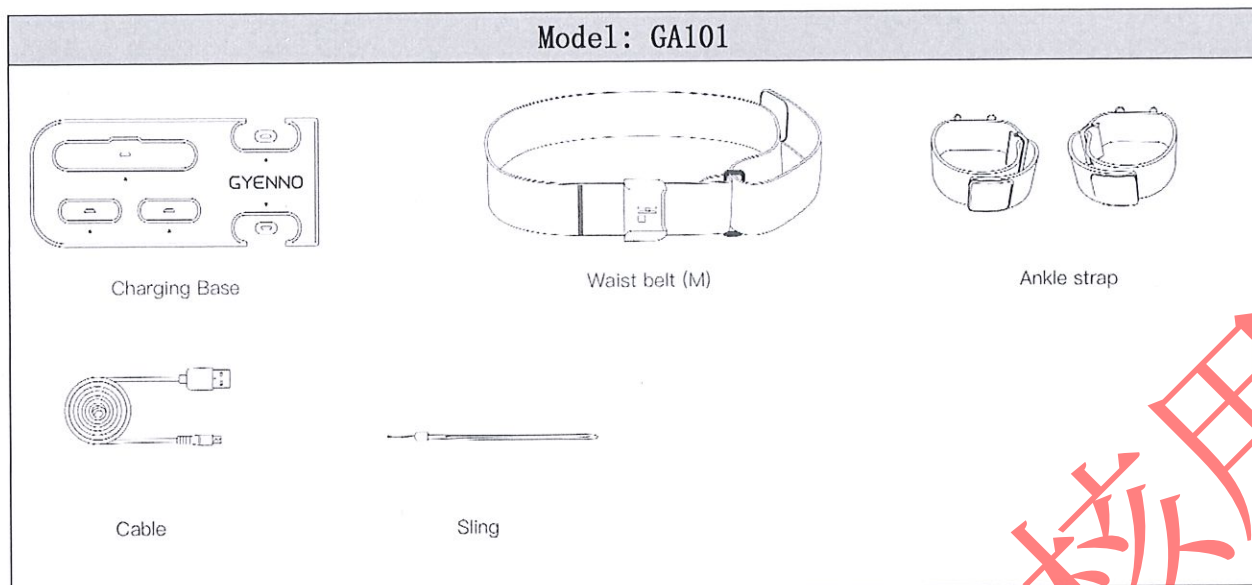
Image 6 Single hole earphone

| Part | Description    |
|------|----------------|
| 1    | Earplug        |
| 2    | Earphone cable |
| 3    | Audio plug     |

Chart 5 Earphone

### 3.2.5 ACCESSORIES





### 3.3 WORKING CONDITIONS

| Conditions              | Parameters                  |
|-------------------------|-----------------------------|
| Environment Temperature | +5 °C ~ +40 °C              |
| Relative Humidity       | 10% ~ 95% (No condensation) |
| Atmospheric Pressure    | 70kPa ~ 106kPa              |

Chart 6 Working Conditions

### 3.4 TRANSPORTATION AND STORAGE CONDITIONS

| Conditions              | Parameters      |
|-------------------------|-----------------|
| Environment Temperature | -20 °C ~ +60 °C |

|                      |                             |
|----------------------|-----------------------------|
| Relative Humidity    | 10% ~ 95% (No condensation) |
| Atmospheric Pressure | 70kPa ~ 106kPa              |

Chart 7 Transportation and Storage Conditions

### 3.5 SYMBOLS USED IN THIS DEVICE

|                                                                                     |                                                     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|
|    | Warning                                             |
|    | Caution                                             |
|    | Attention                                           |
|    | Refer to user manual                                |
|    | Waste Electrical and Electronic Equipment           |
|    | Type BF applied part                                |
|   | DC                                                  |
|  | Laser Warning Sign                                  |
|  | Single Earphone                                     |
|  | Increase Volume                                     |
|  | Decrease Volume                                     |
|  | Switch                                              |
|  | Non-ionizing radiation                              |
|  | Authorized representative in the European Community |
|  | Medical device                                      |
| CE                                                                                  | CE mark                                             |
|  | Manufacturer                                        |

Chart 8 Symbols Used in This Device

## 4 SPECIFICATIONS AND PARAMETERS

### 4.1 SPECIFICATIONS

| Product/Part                                       | Main Parameter           |                   | Description                                                                                                   |
|----------------------------------------------------|--------------------------|-------------------|---------------------------------------------------------------------------------------------------------------|
| Freezing of Gait Aid System<br>GA100, GA101, GA102 | Model GA100              |                   | Main configuration: AI Center *1, laser *2, Collector*2, earphone *1;<br>wearing solutions(Waist, Cane, Vamp) |
|                                                    | Model GA101              |                   | Main configuration: AI Center *1, laser *1, Collector*2, earphone *1;<br>wearing solutions(Waist)             |
|                                                    | Model GA102              |                   | Main configuration: AI Center *1, laser *2, earphone *1;<br>wearing solutions(Vamp)                           |
|                                                    | Identification frequency |                   | Range 4-7Hz,Precision±1Hz                                                                                     |
|                                                    | Response time            |                   | ≤5s                                                                                                           |
|                                                    | Audio hint               |                   | Support                                                                                                       |
|                                                    | Audio rhythm             |                   | Fast/Middle/Slow(Users can use application software to configure it)                                          |
|                                                    | Laser hint               |                   | Support                                                                                                       |
|                                                    | Laser lighting duration  |                   | 6s/10s/15s/20s(Users can use application software to configure it)                                            |
|                                                    | Running time             |                   | Longer than 8 h(100 times/day,)                                                                               |
|                                                    | Charging time            |                   | ≤4 h                                                                                                          |
| AI Center<br>PU100                                 | Size                     |                   | 96 (L)*68.4 (W)*16.5 (H) (mm)                                                                                 |
|                                                    | Weight                   |                   | ≈88 g                                                                                                         |
|                                                    | Bluetooth                | Wireless standard | 802.11 b/g/n                                                                                                  |
|                                                    |                          | Frequency Range   | 2400MHz ~ 2483.5MHz                                                                                           |
|                                                    | Bluetooth                | Wireless standard | BLE/Classic BT                                                                                                |
|                                                    |                          | Frequency Range   | 2400MHz ~ 2483.5MHz                                                                                           |
|                                                    | Battery capacity         |                   | DC 3.7V 1200mAh lithium battery                                                                               |
|                                                    | Charging voltage         |                   | DC 5V ~                                                                                                       |
| Charging Base                                      | Charging time            |                   | ≤4 h                                                                                                          |
|                                                    | Input                    |                   | DC 5V2A                                                                                                       |

|                    |                  |                   |                                        |
|--------------------|------------------|-------------------|----------------------------------------|
| CB100              | Size             |                   | 200.6 (L)*88 (W)*40.6(H) (mm)          |
|                    | Weight           |                   | ≈200 g                                 |
| Laser<br>L100      | Bluetooth        | Wireless standard | BLE                                    |
|                    |                  | Frequency Range   | 2402MHz ~ 2480MHz                      |
|                    | Battery Capacity |                   | DC 3.7V 210mAh lithium battery         |
|                    | Laser            | Wavelength        | 514nm                                  |
|                    |                  | Power             | 0.316mW                                |
|                    | Size             |                   | Approximately 56(L)*50.9(W)*17(H) (mm) |
|                    | Weight           |                   | Approximately 38g                      |
|                    | Charging Voltage |                   | DC 5V                                  |
|                    | Charging Time    |                   | ≤4 h                                   |
|                    |                  |                   |                                        |
| Collector<br>SM120 | Size             |                   | 38.9(L)*37 (W)*12.7 (H) (mm)           |
|                    | Weight           |                   | ≈17 g                                  |
|                    | Battery Capacity |                   | DC 3.7V 210mAh lithium battery         |
|                    | Charging Voltage |                   | DC 5V                                  |
|                    | Bluetooth        | Wireless Standard | BLE                                    |
|                    |                  | Frequency Range   | 2402MHz ~ 2480MHz                      |
|                    | Charging time    |                   | ≤4 h                                   |
|                    | Model SM120L     |                   | Collector(Left)                        |
|                    | Model SM120R     |                   | Collector(Right)                       |

Chart 9 Specifications and Parameters Chart

## 4.2 INDICATING LIGHT DESCRIPTION

AI Center

| Color                                        | Status                   |
|----------------------------------------------|--------------------------|
| <b>Device charging</b>                       |                          |
| Green solid                                  | Fully charged            |
| Yellow solid                                 | Charging                 |
| Alternating green solid and yellow flashing  | Not connected to network |
| Alternating yellow solid and yellow flashing | Not connected to network |
| Blue flashing                                | Data transferring        |
| <b>Equipment in use</b>                      |                          |
| Green solid                                  | Normal operation         |

|                  |                                     |
|------------------|-------------------------------------|
| Green breathing  | Standby                             |
| Yellow solid     | Low battery                         |
| Yellow flashing  | Any collector or laser disconnected |
| <b>Any state</b> |                                     |
| Red flashing     | Device malfunction                  |

#### Collector

| Color                   | Status             |
|-------------------------|--------------------|
| <b>Device charging</b>  |                    |
| Green solid             | Fully charged      |
| Yellow solid            | Charging           |
| Blue flashing           | Data transferring  |
| <b>Equipment in use</b> |                    |
| Green solid             | Normal operation   |
| Green breathing         | Standby            |
| Yellow solid            | Low battery        |
| Yellow flashing         | Disconnected       |
| <b>Any state</b>        |                    |
| Red flashing            | Device malfunction |

#### Laser

| Color                   | Status               |
|-------------------------|----------------------|
| <b>Device charging</b>  |                      |
| Green solid             | Fully charged        |
| Yellow solid            | Charging             |
| Blue flashing           | Data transferring    |
| Red solid               | Temperature too high |
| <b>Equipment in use</b> |                      |
| Green solid             | Normal operation     |
| Green breathing         | Standby              |
| Yellow solid            | Low battery          |
| Yellow flashing         | Disconnected         |
| <b>Any state</b>        |                      |
| Red flashing            | Device malfunction   |

Chart 10 Indicating Light Description

## 5 OPERATION DESCRIPTIONS

## 5.1 WEARING SOLUTIONS

This product supports three wearing solutions:

- Wearing solution 1(Laser node is worn at the waist)
- Wearing solution 2(Laser node is worn on cane)
- Wearing solution 3(Laser node is worn on the shoes face)



Wearing solution 1  
(Laser node is worn at the waist)



Wearing solution 2  
(Laser node is worn on cane)



Wearing solution 3  
(Laser node is worn on the shoes face)

Image 8 Wearing Solutions

| Item No. | Part Name           | Part Model | Wearing Solution<br>Waist<br>(GA100, GA101) | Wearing Solution<br>Cane<br>(GA100) | Wearing Solution<br>Vamp<br>(GA100, GA102) |
|----------|---------------------|------------|---------------------------------------------|-------------------------------------|--------------------------------------------|
| 1        | AI Center           | PU100      | 1                                           | 1                                   | 1                                          |
| 2        | Laser               | L100       | 1                                           | 1                                   | 2                                          |
| 3        | Collector(Left)     | SM120L     | 1                                           | 1                                   | ✓                                          |
| 4        | Collector(Right)    | SM120R     | 1                                           | 1                                   | ✓                                          |
| 5        | Earphone            | E100       | 1                                           | 1                                   | 1                                          |
| 6        | Waist Belt          | -          | 1                                           | ✓                                   | ✓                                          |
| 7        | Cane Strap          | -          | ✓                                           | 1                                   | ✓                                          |
| 8        | Ankle Strap (Left)  | -          | 1                                           | 1                                   | ✓                                          |
| 9        | Ankle Strap (Right) | -          | 1                                           | 1                                   | ✓                                          |
| 11       | Vamp Strap (Left)   | -          | ✓                                           | ✓                                   | 1                                          |
| 12       | Vamp Strap (Right)  | -          | ✓                                           | ✓                                   | 1                                          |

Chart 11 Wearable Parts Configuration

## 5.2 PREPARATION BEFORE INITIAL USE

Before using for the first time, please follow the steps below to prepare:

1. Choose your wearing solution
2. Download and install the application software

3. Registration and Sign in
4. Device binding
5. Device networking
6. Mode configuration
7. Use the product

### 5.2.1 DOWNLOAD AND INSTALL THE APPLICATION SOFTWARE

The product must be used in conjunction with the mobile application software "SKYWALK-FOG". Please obtain and download from the following channels:

---

#### Cybersecurity

"SKYWALK-FOG" APP needs to use username and password for user authentication, and can log in and view data only after passing the authentication; If verification failed, user will be unable to log in and system will give a prompt.

---

- iOS device: Please search for "SKYWALK-FOG" in the App Store and download and install it.
- Android device: Please search for "SKYWALK-FOG" in all major Android application markets, download and install it.



- Operating Environment

Hardware Configuration: RAM≥1 GB

ROM≥8 GB

Screen≥ 4.7 inches

Software Environment: Android 5.0 or above

iOS 8.0 or above

Network Conditions: Bluetooth, Wi-Fi and Network



#### ATTENTION

1. The device does not support PC.
2. The default standard font is recommended to be used on the mobile phone where application software

is going to be installed to avoid incomplete screen content.

---

## 5.2.2 USER REGISTRATION AND LOGIN

Before using for the first time, please follow the user guide of the APP to complete user registration and login.

## 5.2.3 DEVICE BINDING

After the user log in, please follow the user guide of the APP to complete the device binding operation.

---



### **ATTENTION**

1. When you bind the device, you need to use the mobile phone to scan the QR code on the label at the back of the AI center.
  2. If the bound AI center needs to be replaced, you must unbind it in the APP and then re-bind the device.
- 

## 5.2.4 NETWORK CONNECTION

Please follow the steps below to complete the Wi-Fi network connection.

1. Plug the AI center into the charging base or charge it with the charging cable.
  2. Make sure that your mobile phone's Bluetooth is turned on.
  3. Ensure that the AI center is in a Wi-Fi environment, open "SKYWALK" APP and follow the instruction of "Network connection" to complete the connection.
  4. If the connection is successful, "Connection successful" will pop-up on "SKYWALK" APP.
  5. If the connection fails, "Connection failed" will pop-up on "SKYWALK" APP, please follow the guide on APP to reconnect.
- 



### **ATTENTION**

1. The device must be bound with your phone before configuring the Wi-Fi connection.
  2. AI Center should be in normal charging status while configuring the Wi-Fi connection.
  3. The Wi-Fi network connection should be reconfigured if the wireless environment changes.
-

4. The device only supports 2.4G Wi-Fi connection.

## 5.2.5 MODE CONFIGURATION

Before using the device, you must configure the nodes and AI center in advance. The product supports three configuration modes:

| Mode                     | Supported models | AI center | Laser nodes | Collector nodes |
|--------------------------|------------------|-----------|-------------|-----------------|
| Waist Mode Configuration | GA100, GA101     | 1         | 1           | 2               |
| Cane Mode Configuration  | GA100            | 1         | 1           | 2               |
| Shoe Mode Configuration  | GA100, GA102     | 1         | 2           | 0               |

Chart 12 Configuration Modes

\* If the wearing mode is switched, the mode configuration must be changed.

Waist/Cane mode network status:



Shoe mode network status:



Please follow the steps below to complete the configuration of the AI center and each node of the device:

1. Specify the corresponding mode configuration according to the way you want to wear the device.
2. Plug the corresponding nodes and AI center into the charging base.
3. Make sure that mobile phone's Bluetooth is on.
4. Open "SKYWALK" in your mobile phone and follow the "Mode Configuration" guide to complete the node configuration.
5. If the mode configuration is successful, "Configuration Successful" will pop-up on "SKYWALK" APP.
6. If the mode configuration fails, "Configuration failed" will pop-up on "SKYWALK" APP. Please follow the APP guide to reconfigure.



### **ATTENTION**

1. When configuring the mode, you must ensure that the AI center and nodes are in normal charging state.
2. If you need to replace the configured AI compute center or node, the mode configuration must be reconfigured.
3. If you need to switch other node configuration, the node configuration must be reconfigured.
4. Charge the nodes according to the number of nodes in wearing solution during mode configuration.
5. Do not charge the nodes which are not going to be configured simultaneously.

## **5.2.6 HINT MODE SETTING**

- The device has two hint modes:
  - 1) Laser hint: laser line is projected in front of the user's walking, guiding the user to walk normally by vision.
  - 2) Audio hint: beat rhythm is played in the earphone, and user is encouraged to walk normally by audio.
- Users can set the hint mode in the APP.
  - 1) Only laser hint is turned on.
  - 2) Only audio hint is turned on.
  - 3) Laser hint and audio hint are simultaneously turned on.
- User can set the parameters in the APP:
  - 1) The duration of laser and audio hint after each trigger.
  - 2) Beat rhythm of the audio hint: fast/medium/slow.



### **Warning**

1. Do not use binaural earphones when using audio hint.

## **5.3 HOW TO USE**

### **5.3.1 WEARING THE DEVICE**

Users need to select a wearing mode, take out the corresponding parts according to the selected wearing mode and wear the device according to the following steps of the chosen wearing mode:



## Warning

1. Please wear the waist and ankle straps over your clothing, pants, socks or other apparel items. If there is any allergy, please stop using it temporarily.

### 1. WEARING MODE 1(WAIST) – GA100、GA101



Wearing mode 1

Wear the laser node on the waist

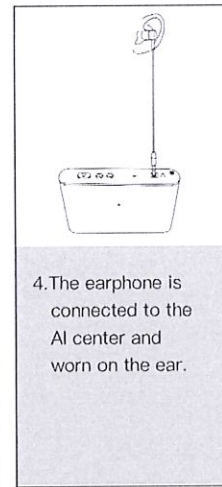
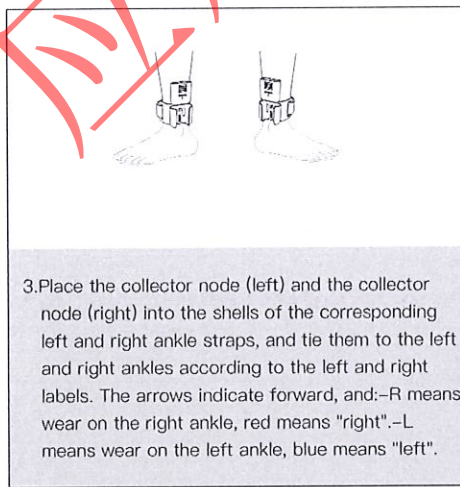
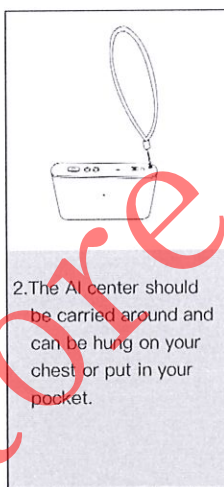
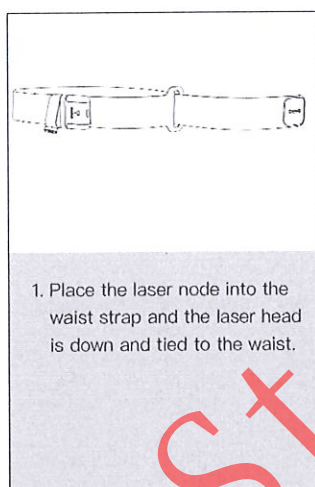


Image 9 Wearing Mode 1

### 2. WEARING MODE 2(CANE) – GA100



Wearing mode 2 (cane)

### Wear the laser node on the cane

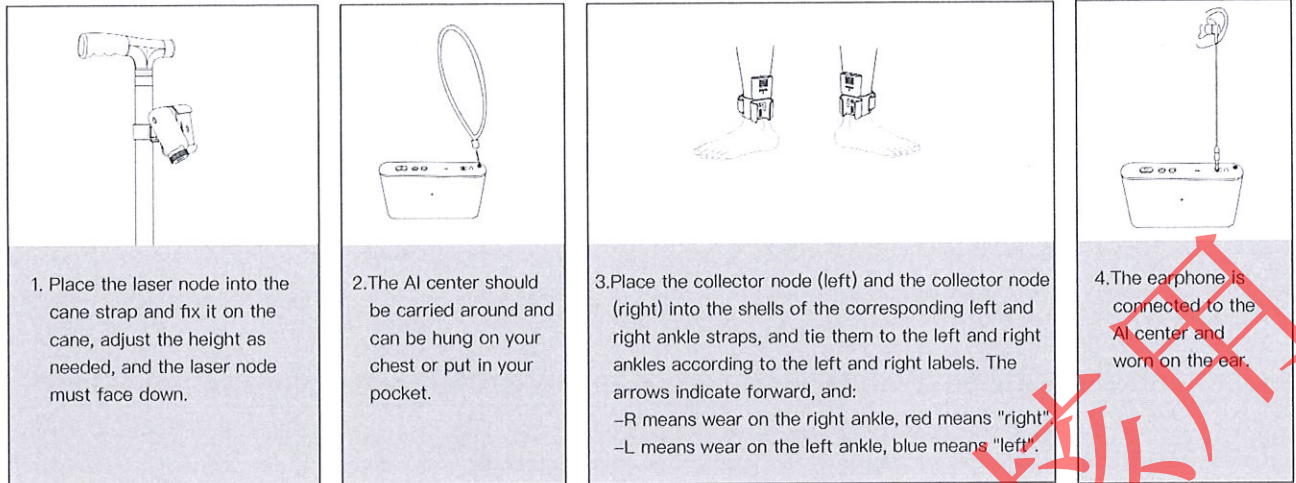


Image 10 Wearing Mode 2

### 3. WEARING MODE 3(SHOE) – GA100, GA102



Wearing mode 3 (shoes)

### Wear the laser node on the shoes

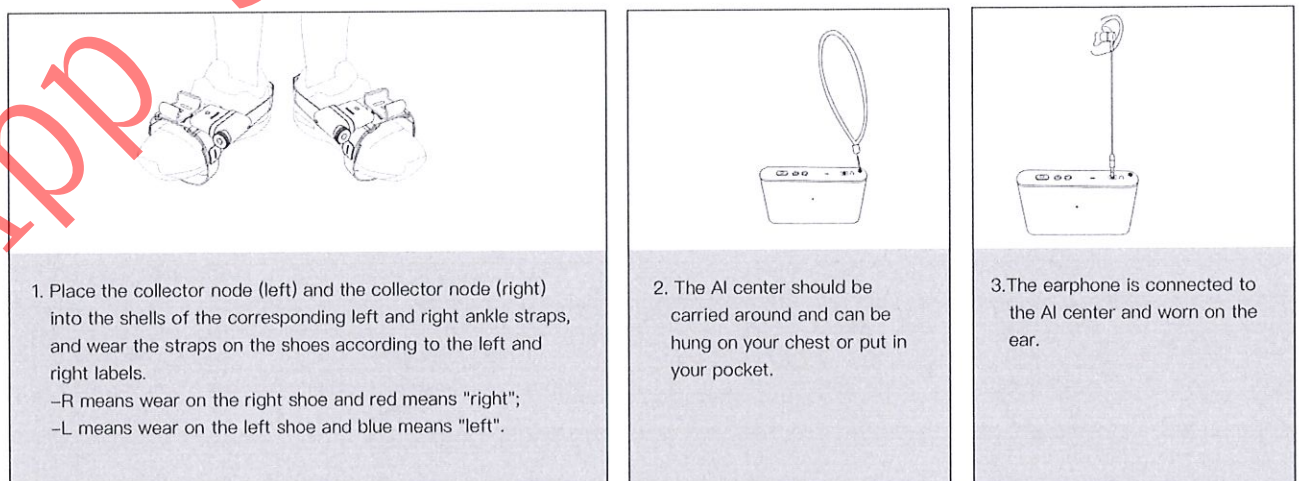


Image 11 Wearing Mode 2



#### **ATTENTION**

1. The left and right ankle straps is different from each other, please distinguish them before use.
  2. The laser head of laser node must face down.
  3. Ensure that the AI center is within 3 meters from the collector node and the laser node.
  4. The AI center should be carried around and can be hung on your chest or put in your pocket.
- 

### **5.3.2 POWER ON AND OFF**

When the wearing is completed, press the power button of the AI center to turn on the device. If the indicating light of AI center is green, you can start using the product; if the indicating light of AI center is yellow, check if the battery is low. Press and hold the switch button for about 5 seconds to turn off the AI center.

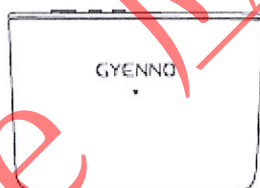


Image 12 Turn on/off



#### **ATTENTION**

After the AI center is not in use for 5 minutes, the indicating light goes out and the device automatically turns off.

---

### **5.3.3 FROZEN GAIT RECOGNITION AND HINT**

#### **● AUTOMATIC RECOGNITION AND HINT**

After the device is turned on normally, it can be used while walking.

1. Real-time detection and automatic analysis to recognize user's walking gait.

2. When the frozen gait occurs, laser hint, audio hint or both hints will be triggered according to the system setting.
3. The device will not give any hint if user is walking normally and no frozen gait occurs.
4. The duration of each hint is based on the system setting.

#### ● MANUAL HINT

At normal operation status, short press AI center's power button to trigger manual hint. Laser hint, audio hint, or both hints will be triggered according to the system setting, the default hint duration is 30s. Short press AI center's power button to turn off manual hint.

#### LASER LINE ADJUSTMENT

The most suitable position of laser line to project on the ground is 20 to 50 cm in front of the user's foot; the correct direction of the laser line is parallel to the toe. If not, adjust the laser node axis and lens knob:

##### 1) Distance adjustment

Rotate the angle of the laser node' axis to control the projection position of the laser line, the distance between the laser line and the user should be controlled at 20~50cm, as shown in Image 13:

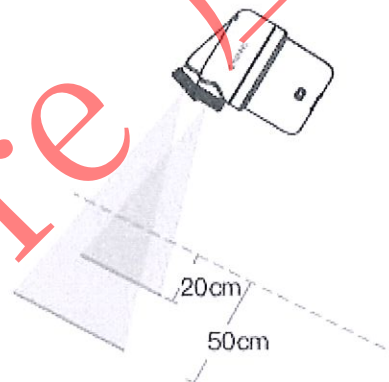


Image 13 Laser Node

##### 2) Direction adjustment

Rotate the lens knob to control the direction of the laser line projected on the ground so that the laser line is parallel to your toe, as shown in Image 14:

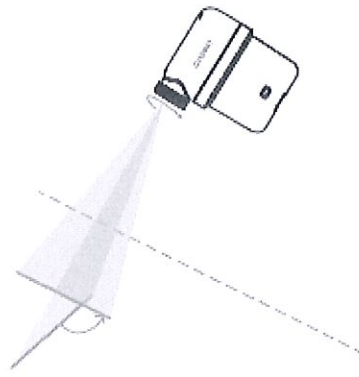


Image 14 Laser Node

- WARNINGS OF LASER HINT



**Warning**

1. The laser cannot be projected directly into eyes, laser projected onto a person should be avoided.
2. Users should not only attention the laser line, but must also pay attention to the surrounding environment while walking.

- WARNINGS OF AUDIO INTERFERENCE

Earphone can be used by directly plugging into the AI center.



**Warning**

1. Do not use binaural earphone.
2. Users should not only notice the audio rhythm, but also pay attention to the surrounding environment.

### 5.3.4 DATA COLLECTION

The device automatically records the user's gait data while using, and the gait data is automatically stored in the AI center.

### 5.3.5 DATA TRANSFERRING

All data stored in the device will be transferred while charging.

1. Please charge the AI center before transferring data.
2. The AI center will automatically access the network through Wi-Fi and upload data to the cloud while charging.
3. Data transfer will start once a wireless connection is successfully set up. When transferring data, the indicating light of AI center indicator will flash in blue and when the process is completed, the indicating light stays in yellow (charging) or green (charged).

### 5.3.6 VIEW RESULTS

Open the APP, select "Data", and view the frozen gait data in the interface, including the statistics of the daily activity duration, the number of frozen gait occurrences, the start and end time of the frozen gait, the average duration of the frozen gait, and the duration distribution of the frozen gait.



#### Caution

If no measurement results are shown, it may be caused by the following reasons:

1. None or incomplete data transfer due to Wi-Fi connection problems or others.
  2. The measurement is terminated. The measurement time is insufficient or it's not an actual measurement.
- 

## 5.4 AFTER USING

### 5.4.1 END OF USE

Please power off, take off straps from your body and remove AI center and each node from the straps. It is suggested that the device should be cleaned each time after using.

## 5.4.2 CHARGING

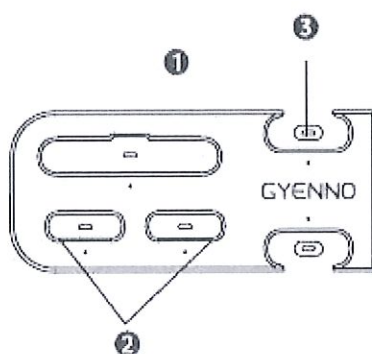


Image 15 Charging Base

Name: Charging base, Model: CB100

| Serial | Description                                      |
|--------|--------------------------------------------------|
| 1      | AI center charging port                          |
| 2      | Laser node charging port                         |
| 3      | Collector node charging port                     |
| 4      | Charging hole for connecting the charging cable. |

Chart 13 Charging Base Description

When the battery of AI center or node is low, the indicating light stays in yellow which means it needs to be charged as soon as possible.

Place the AI center and nodes individually or completely in the corresponding charging port of the charging base and connect to the external power supply of DC 5V/2A. The indicating light stays in yellow while charging and it turns to green when charged.

## 6 CLEANING AND DISINFECTION

- The plastic shell parts of AI center, charging base, cane and nodes can be washed with a cotton swab, neutral detergent and clean water. Do not use sharp tools such as toothpicks, tweezers, and knives for cleaning. Dry it with a clean, soft cotton swab. Do not use corrosive solutions to wipe or clean.
- The fabric, PU leather and buckle parts of the strap can be washed with a brush, detergent and clean water. The metal part of the strap should never be submerged in water to avoid corrosion, it can be wiped and cleaned with antibacterial tissue or cotton cloth soaked with alcohol.
- Remove the hand strap and wash it with a mild detergent, then rinse it off.

## 7 MAINTENANCE

- The product does not have any parts that can be repaired by users.
- The device consists of sophisticated mechanical parts. Performance and service life of this device may be significantly reduced if under long-term magnetic interference.
- Power off the device after using.
- Any part of the device is not waterproof, do not splash water on it or submerge it into water washed or drenched.
- Do not place or store the device near fire or heat articles.
- The device should be cleaned in time after use.
- Please avoid dropping or impacting the device at any time.
- Do not forcefully pull, press or twist the unit or components.
- The device should be charged in time. It should be fully charged and stored when it's not in use for a long time. It should be charged every one to two months and stored in a cool or dry environment in order to avoid moisture and exposure.

## 8 TROUBLESHOOTING

| PROBLEMS                                      | Possible Causes and Troubleshooting                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unable to bind with APP                       | <ol style="list-style-type: none"> <li>1. The network signal is weak.<br/>Please move to a place where the signal is strong and try again.</li> <li>2. The device is already bound by another user.<br/>Please call the customer service hotline.</li> <li>3. The QR code is missing or damaged and cannot be scanned.<br/>Please call the customer service hotline.</li> </ol>                                            |
| Unable to connect network                     | <ol style="list-style-type: none"> <li>1. Enter the wrong wireless network password. Please enter the correct wireless network password and try again.</li> <li>2. The device exits the connecting state due to timeout. Please try again according to the "Network connection" section.</li> <li>3. The wireless network signal is weak. Please move to a location where the signal is stronger and try again.</li> </ol> |
| Unable to intervene when a frozen gait occurs | <ol style="list-style-type: none"> <li>1. The device is not used as required.<br/>Please check if the product is properly worn.</li> <li>2. The connection signal between AI center and nodes is weak.<br/>Observe the status of the node indicator and check if it is under normal operation status of green. If not, please re-network according to the "Mode Configuration" section.</li> </ol>                         |
| Unable to transmiss data                      | <ol style="list-style-type: none"> <li>1. The device is not bound to the APP.<br/>Please try again according to the "Device Binding" section.</li> <li>2. The wireless network signal is weak.</li> </ol>                                                                                                                                                                                                                  |

|                  |                                                                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | Please move to a place where the signal is stronger and try again.                                                                                                              |
| Unable to charge | 1. Not charging properly<br>Check if the charging cable or charging base is properly connected.<br>2. Battery or charging component failure<br>Please contact the manufacturer. |
| Others           | Please stop using the device and contact GYENNO Service.                                                                                                                        |

Chart 14 Troubleshooting

## 9 PRECAUTIONS

- It is suggested to proactively adjust wearing modes and try visual or auditory hints to find the best way to wear and intervene at the beginning of adopting the equipment.
- Make sure that the device is fully charged before use. When the battery is low, stop using the device and charge it as soon as possible.
- Please follow the instruction to use the device.
- Do not wash the straps by any washing machine, it can only be washed by hand.
- Do not remove the QR code on the product.

## 10 CONTRAINDICATIONS

- For patients with pacemakers or other electrical stimulation devices, please do not place the product near your heart or other electrical stimulation devices due to the magnetic components of the straps.
- Users who have other metal implants should follow doctor's advice.
- Users allergic to the materials used in this product are not recommended to use this product.

## 11 EMC INFORMATION

| Guidance and manufacture's declaration – electromagnetic emission                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that they are used in such an environment.                                                                                                                                                                                                                                                   |            |                                                                                                                                                                                                                          |
| Emission test                                                                                                                                                                                                                                                                                                                                                                                                                        | Compliance | Electromagnetic environment – guidance                                                                                                                                                                                   |
| RF emissions<br>CISPR 11                                                                                                                                                                                                                                                                                                                                                                                                             | Group 1    | The device uses RF energy only for their internal function. Therefore, their RF emissions are very low and are not likely to cause any interference in nearby electronic device.                                         |
| RF emission<br>CISPR 11                                                                                                                                                                                                                                                                                                                                                                                                              | Class B    | The device is suitable for use in all establishments, other than domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. |
| Harmonic emissions<br>IEC/EN 61000-3-2                                                                                                                                                                                                                                                                                                                                                                                               | N/A        |                                                                                                                                                                                                                          |
| Voltage fluctuations/<br>flicker emissions<br>IEC/EN 61000-3-3                                                                                                                                                                                                                                                                                                                                                                       | N/A        |                                                                                                                                                                                                                          |
| <p><b>NOTE</b> The EMISSIONS characteristics of the device make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) the device might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the device.</p> |            |                                                                                                                                                                                                                          |

Chart 15 Guidance and Manufacture's declaration – Electromagnetic Emission

| Guidance and manufacture's declaration – electromagnetic immunity                                                                                                                  |                                                                                                                                                                                         |                               |                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that they are used in such an environment. |                                                                                                                                                                                         |                               |                                                                                                                                              |
| Immunity test                                                                                                                                                                      | IEC/EN 60601 test level                                                                                                                                                                 | Compliance level              | Electromagnetic environment - guidance                                                                                                       |
| Electrostatic discharge (ESD)<br>IEC/EN 61000-4-2                                                                                                                                  | ± 8 kV contact<br>± 15 kV air                                                                                                                                                           | ± 8 kV contact<br>± 15 kV air | Floors should be wood, concrete or ceramic tile. If floor are covered with synthetic material, the relative humidity should be at least 30%. |
| Electrical fast transient/burst<br>IEC/EN 61000-4-4                                                                                                                                | ±2 kV for power supply lines                                                                                                                                                            | N/A                           | N/A                                                                                                                                          |
| Surge<br>IEC/EN 61000-4-5                                                                                                                                                          | ±1 kV for line to line<br>±2 kV for line to ground                                                                                                                                      | N/A                           | N/A                                                                                                                                          |
| Power frequency<br>(50/60Hz)<br>magnetic field<br>IEC/EN 61000-4-8                                                                                                                 | 30 A/m                                                                                                                                                                                  | 30 A/m                        | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.    |
| Voltage dips, short interruptions and voltage variations on power supply input lines<br>IEC/EN 61000-4-11                                                                          | <5 % $U_T$ (>95% dip in $U_T$ ) for 0.5 cycle<br>40 % $U_T$ (60% dip in $U_T$ ) for 5 cycles<br>70 % $U_T$ (30% dip in $U_T$ ) for 25 cycles<br><5 % $U_T$ (>95% dip in $U_T$ ) for 5 s | N/A                           | N/A                                                                                                                                          |
| NOTE $U_T$ is the a.c. mains voltage prior to application of the test level.                                                                                                       |                                                                                                                                                                                         |                               |                                                                                                                                              |

Chart 16 Guidance and manufacture's declaration - Electromagnetic Immunity

# Guidance and manufacture's declaration – electromagnetic immunity

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that they are used in such an environment.

| Immunity test                    | IEC/EN 60601 test level                                                                                   | Compliance level                                  | Electromagnetic environment - guidance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conducted RF<br>IEC/EN 61000-4-6 | 3 V <sub>rms</sub><br>150 kHz to 80 MHz<br>6 V <sub>rms</sub> in ISM bands between<br>0,15 MHz and 80 MHz | N/A                                               | Portable and mobile RF communications device should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.<br><b>Recommended separation distance</b><br>$d = 1.2\sqrt{P}$ 150KHz to 80MHz<br>$d = 1.2\sqrt{P}$ 80 MHz to 800 MHz<br>$d = 2.3\sqrt{P}$ 800 MHz to 2.7 GHz<br>$d=6$ /E at RF wireless communications device bands (Portable RF communications device (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device, including cables specified by the manufacturer). |
| Radiated RF<br>IEC/EN 61000-4-3  | 3 V/m<br>80 MHz to 2.7 GHz<br>See table 1                                                                 | 3 V/m<br>80 MHz to 2.7 GHz<br>Comply with table 1 | Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).<br>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, <sup>a</sup> should be less than the compliance level in each frequency range. <sup>b</sup><br>Interference may occur in the vicinity of device marked with the following symbol:                                                                                                                                           |

**NOTE 1** At 80 MHz and 800 MHz, the higher frequency range applies.

**NOTE 2** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

- a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the device.
- b. Over the frequency range 150 kHz to 80MHz, field strengths should be less than 3V/m.
- c. The ISM (industrial, scientific and medical) bands between 0,15 MHz and 80 MHz are 6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz. The amateur radio bands between 0,15 MHz and 80 MHz are 1,8 MHz to 2,0 MHz, 3,5 MHz to 4,0 MHz, 5,3 MHz to 5,4 MHz, 7 MHz to 7,3 MHz, 10,1 MHz to 10,15 MHz, 14 MHz to 14,2 MHz, 18,07 MHz to 18,17 MHz, 21,0 MHz to 21,4 MHz, 24,89 MHz to 24,99 MHz, 28,0 MHz to 29,7 MHz and 50,0 MHz to 54,0 MHz.

Chart 16 Guidance and Manufacture's Declaration – Electromagnetic Immunity

| Test specifications for enclosure port immunity to RF wireless communications device |                          |                                                                 |                                        |                   |              |                      |
|--------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------|----------------------------------------|-------------------|--------------|----------------------|
| Test frequency (MHz)                                                                 | Band <sup>a)</sup> (MHz) | Service <sup>a)</sup>                                           | Modulation <sup>b)</sup>               | Maximum power (W) | Distance (m) | Test frequency (MHz) |
| 385                                                                                  | 380-390                  | TETRA 400                                                       | Pulse modulation <sup>b)</sup> 18 Hz   | 1,8               | 0,3          | 27                   |
| 450                                                                                  | 430-470                  | GMRS 460, FRS 460                                               | FM <sup>c)</sup> $\pm$ 5 kHz deviation | 2                 | 0,3          | 28                   |
| 710                                                                                  | 704-787                  | LTE Band 13, 17                                                 | Pulse modulation <sup>b)</sup> 217 Hz  | 0,2               | 0,3          | 9                    |
| 745                                                                                  |                          |                                                                 |                                        |                   |              |                      |
| 780                                                                                  |                          |                                                                 |                                        |                   |              |                      |
| 810                                                                                  | 800-960                  | GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5          | Pulse modulation <sup>b)</sup> 18 Hz   | 2                 | 0,3          | 28                   |
| 870                                                                                  |                          |                                                                 |                                        |                   |              |                      |
| 930                                                                                  |                          |                                                                 |                                        |                   |              |                      |
| 1720                                                                                 | 1700-1990                | GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS | Pulse modulation <sup>b)</sup> 217 Hz  | 2                 | 0,3          | 28                   |
| 1845                                                                                 |                          |                                                                 |                                        |                   |              |                      |
| 1970                                                                                 |                          |                                                                 |                                        |                   |              |                      |
| 2450                                                                                 | 2400-2570                | Bluetooth, WLAN, 802.11 b/g/n,                                  | Pulse modulation <sup>b)</sup> 217 Hz  | 2                 | 0,3          | 28                   |

|                                                                                                                                                                                                                                                                                                                                                                      |           |                       |                                       |     |     |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|---------------------------------------|-----|-----|---|
|                                                                                                                                                                                                                                                                                                                                                                      |           | RFID 2450, LTE Band 7 |                                       |     |     |   |
| 5240                                                                                                                                                                                                                                                                                                                                                                 | 5100-5800 | WLAN 802.11 a/n       | Pulse modulation <sup>b)</sup> 217 Hz | 0,2 | 0,3 | 9 |
| 5500                                                                                                                                                                                                                                                                                                                                                                 |           |                       |                                       |     |     |   |
| 5785                                                                                                                                                                                                                                                                                                                                                                 |           |                       |                                       |     |     |   |
| <p><b>NOTE 1</b> At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p><b>NOTE 2</b> These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>                                                                                                     |           |                       |                                       |     |     |   |
| <p><sup>a)</sup> For some services, only the uplink frequencies are included.</p> <p><sup>b)</sup> The carrier shall be modulated using a 50 % duty cycle square wave signal.</p> <p><sup>c)</sup> As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.</p> |           |                       |                                       |     |     |   |

Chart 17 EMC Compliance Statement B

| Recommended Separation Distances Between Portable and Mobile RF Communications Device and This Device                                                                                                                                                                                                                                                                                                                         |                                        |                                        |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|-----------------------------------------|
| <p>The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications device (transmitters) and the device as recommended below, according to the maximum output power of the communications device.</p> |                                        |                                        |                                         |
| Rated Maximum Output Power<br>of Transmitter<br>(W)                                                                                                                                                                                                                                                                                                                                                                           | 150 kHz to 80 MHz<br>$d = 1.2\sqrt{P}$ | 80 MHz to 800 MHz<br>$d = 1.2\sqrt{P}$ | 800 MHz to 2.5 GHz<br>$d = 2.3\sqrt{P}$ |
| 0.01                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.12                                   | 0.12                                   | 0.23                                    |
| 0.1                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.38                                   | 0.38                                   | 0.73                                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.2                                    | 1.2                                    | 2.3                                     |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.8                                    | 3.8                                    | 7.3                                     |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                           | 12                                     | 12                                     | 23                                      |
| <p>For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.</p>                                                                                       |                                        |                                        |                                         |

**NOTE 1** At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

**NOTE 2** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Chart 18 Recommended Separation Distance of Electromagnetic Interference

## 12 REGULATORY INFORMATION

### FCC Caution:

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

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.

FCC RF Radiation Exposure Statement(Model: SM120L& L100):

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

FCC RF Radiation Exposure Statement(Model: PU100):

This radio is designed for and classified as "General population/uncontrolled Use", the guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

Body and limbs operation; this device was tested for typical body and limbs operations kept 0mm for body worn. To maintain compliance with RF exposure requirements, use accessories that maintain a 0mm for body worn.

## 13 LIMITED WARRANTY

All center and all nodes of the device is warranted to be free from defects within 12 months starting from the date of purchase.

Any part of the device, including attachments and accessories, is not allowed to be repaired by unspecified maintenance. One of the following occurs is not eligible for warranty claim:

- Damage caused by disassembling or modifying on customer's own.

- Damage caused by unspecified maintenance by manufacturer.
- Damage caused by exceeding the specified conditions of use.
- Damage caused by the failure to use in abnormal environment or without following the user manual.
- Damage caused by improper use or transportation.
- Manufacturing label being replaced or removed.
- Damage caused by accidentally dropping during use or transportation.

Repairing services out of the warranty will be charged as required.

## 14 DISPOSAL

GYENNO has always been committed to earth care, we also encourage our users to make contribution by executing proper disposal:

- Packaging materials should be handed to local recycling companies for the possibility of re-use.
- Comply with relevant laws and regulations when disposing wasted parts and components.
- This device should be disposed as electronic waste.

## 15 COPYRIGHT AND RESPONSIBILITY

The copyrights and confidentiality of this manual are owned by GYENNO.

This manual is subjected to be a reference for operating and maintaining the equipment.