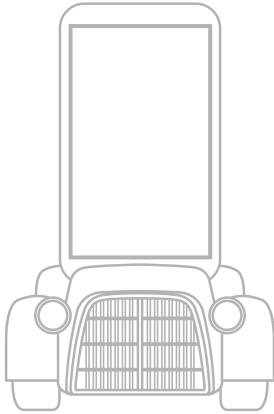




TYCHE USER GUIDE

FOR AGE 8+ / ENGLISH



MANUAL CONTENTS

02 Introduction 04 Information 06 Overview 08 APP Installation 09 Talk to Tyche
10 Plan and Move 12 BYOI 13 Vision App 14 Remote Communication 15 Avatar Mode
16 Voice Communication 17 FAQs 18 Warranty

Thank you for purchasing TYCHE, a product of AlBrain & Bonavision.

Tyche is an AI companion robot named after the Greek goddess of fortune. Tyche brings good fortunes by creating an atmosphere that promotes learning, socializing, and playing, and enhances the imagination and creativity of young minds. Using a smartphone as its brain, Tyche's talking, listening, thinking, reasoning, planning, and problem solving abilities continue to improve with each release. An ever-growing number of applications that show off Tyche's capabilities available for download on Google Play™.

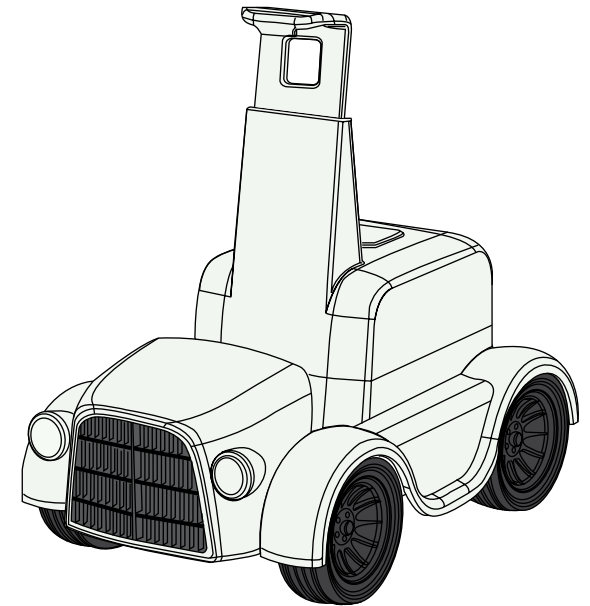
Several cutting-edge technologies have been built and integrated to bring Tyche to life. Interested developers can also innovate and add to Tyche's capabilities.

Tyche can help your child live a smarter, more creative life through technology. Enjoy!

PACKAGE CONTENTS:

- 1 x TYCHE
- 1 x User's Guide
- 1 x Power Adapter
- 1 x Li-ion battery (3 cells)

****Smartphone is NOT included***



SPECIFICATIONS :

- Version: Tyche Classic Car
- Color: White
- Size: 260 x 170 x 210 (mm)
- Net Weight: 801g
- Battery: 3 cells of Li-ion re-chargeable (163g) / NCM 18650
- Power Adapter: SW30 / 100~240V



Smartphone's Minimum System Requirements to run Tyche Applications:

Android™ 4.0 and Above

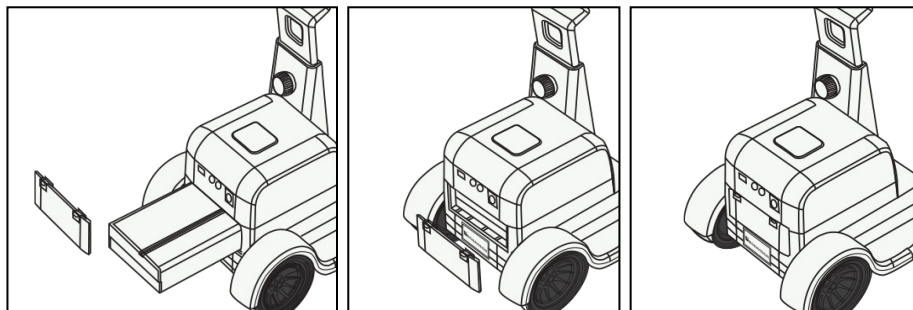
****Smartphone is NOT included***

****Apple's iOS is currently not supported.***

BATTERY PACK INSTALLATION:

Tyche's Battery Pack and the car body are separately included in the box. Follow the instructions below to install the Battery Pack into the car.

**Note: The Battery Pack ships uncharged. See the section labeled "Charging the Battery Pack" on Page 4 for instructions*



- Be sure the robot power switch is in the OFF position before inserting battery pack.
- Push the battery pack completely.
- Replace the battery pack cover tightly.

BATTERY INSTALLATION:

- Be sure the robot power button is in the OFF position before installing the battery.
- Install the provided battery as shown with the polarity on the correct position.
- Replace the battery cover tightly.
- Charge the battery while properly inserted into Tyche battery slot for 4 hours straight.
- Remove from the charger while the right LED at the back is green (100%).
- Remove the battery if Tyche is not going to be used for some time.

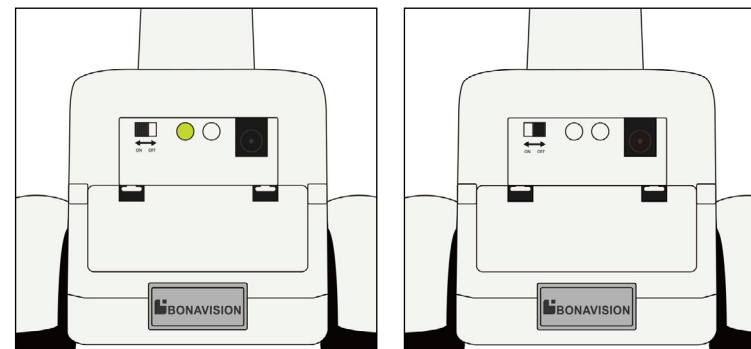
LOW BATTERY INDICATOR:

- When Tyche's battery is low, the movement speed and general performance will be affected. Please power OFF and recharge as recommended.
- Your smartphone battery should also be monitored for Tyche's optimal performance.



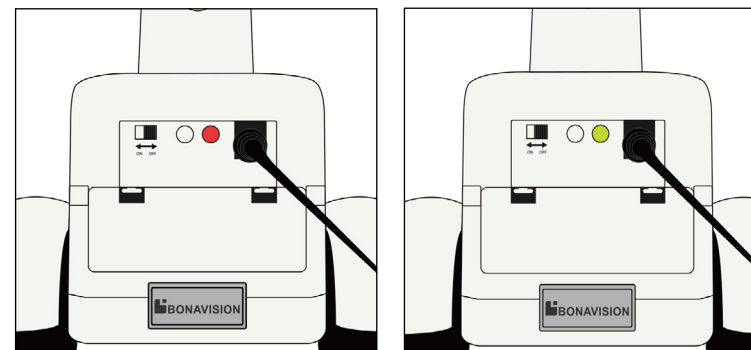
**Tyche battery DOES NOT charge/recharge Smartphone.
Power OFF Tyche while not in use.

CHARGING THE BATTERY PACK:



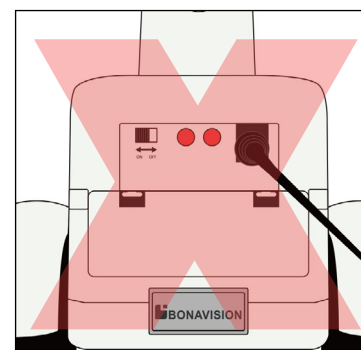
• Turn-on Mode

• Turn-off Mode



• Charging Mode

• Fully Charged

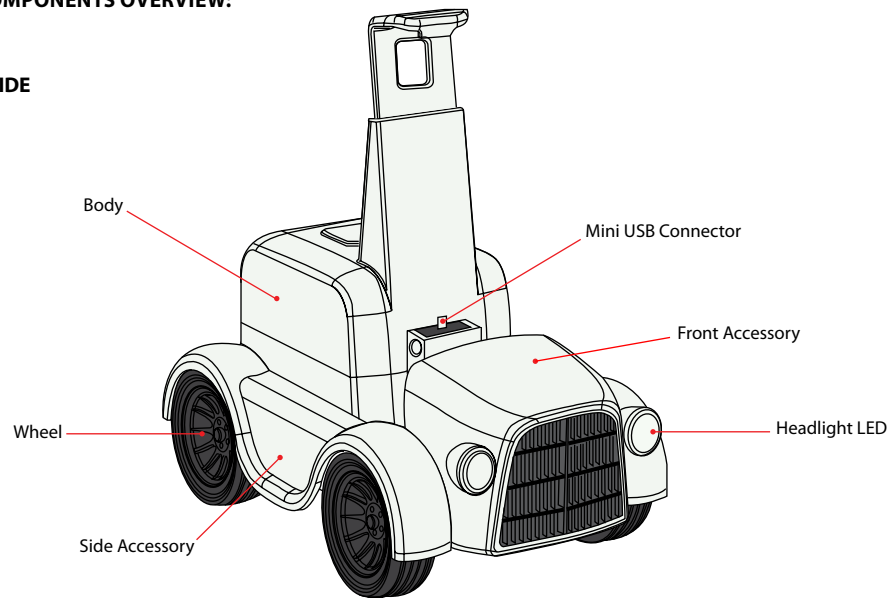


• Malfunctioning

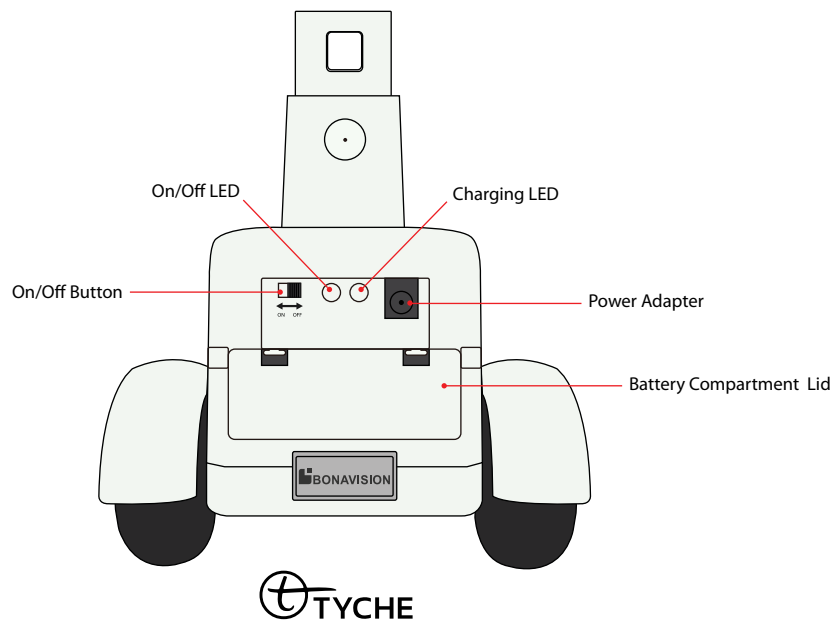
**DO NOT charge while Tyche is on Turn-on Mode.*

COMPONENTS OVERVIEW:

*SIDE



*BACK



CONNECTING SMART DEVICE:



- Unscrew the support frame and pull it upwards to find space for smartphone.



- Dock the smartphone onto the mini USB connector.



- Lower the support frame after docking the phone and tighten the screw at the back for tight grip.



- Turn on Tyche to check the connection between Tyche's mini USB connector and smartphone.



*The phone screen should be facing the front of the robot body. Make sure that your phone can be docked in this manner and not the opposite way. Tyche uses the smart device web-cam for some of the applications.

TYCHE

Getting Started

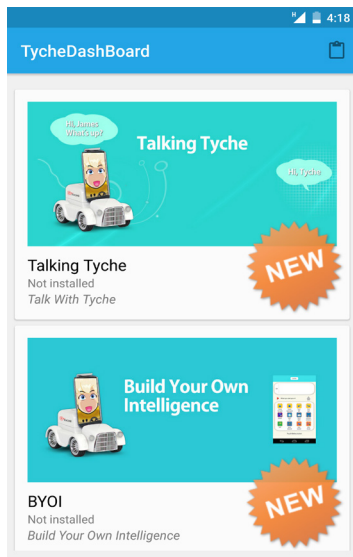
GETTING STARTED:

After confirming that the battery of Tyche and the smartphone is fully charged, you are ready to get started. Search & install Tyche Dashboard App from Google Play™. Turn your smartphone ON and dock it on Tyche's mini-USB connector. On the back of the Tyche Robot, turn the power switch to the ON position. On the smartphone display window, Tyche Dashboard will appear to guide you through the installation and launching process.

**Full functionality requires Internet connection*

BASIC FUNCTIONS:

Tyche relies on your Android™ powered smartphone to be the brain that runs its body. Once the smartphone is connected to the mini-USB connector, the power to think, reason, plan, execute ac-



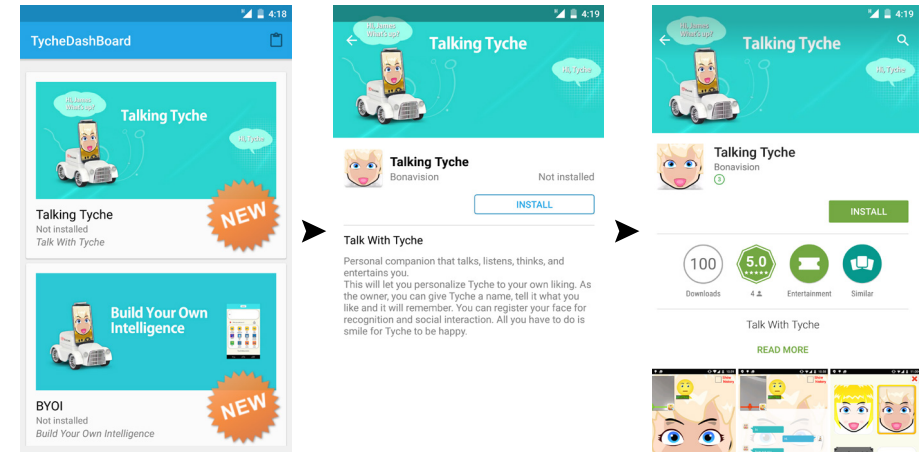
TYCHE OPERATION TEST:

- Dock your smartphone while Tyche is still off.
- Turn on Tyche. A pop-up dialog of the Tyche Dashboard will appear.
- Click on the icon at the top-right corner of the Tyche Dashboard to run the test tool.
- Follow the instructions from the test tool for basic operations of Tyche such as movements and lights on and off actions.

**If Tyche is functioning normally, you can now proceed to install Tyche's currently available applications listed on the Dashboard.*

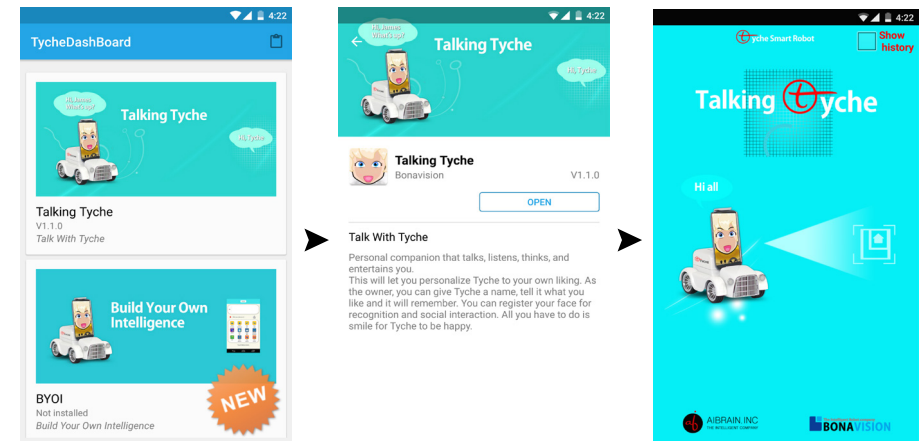
TYCHE

APP Installation



INSTALL AND EXECUTE TYCHE APPLICATIONS:

Tyche applications: Talking Tyche, Build Your Own Intelligence (BYOI), Tyche Vision, Tyche Remote Communication, and Plan and Move. Select an application and click to install. Talking Tyche App installation is provided here as an example. All other apps can be installed the same way.



MAIN FEATURES:

Talking Tyche: Allows you to talk to Tyche freely and intelligently. Tyche knows who the owner is and gives him/her special privileges.

BYOI: A jumpstart to learning how to program through building your own AI implementations.

Tyche Vision: Shows the detection and tracking capabilities of Tyche, including facial expressions, face, ball, and markers.

Remote Communication: Control Tyche remotely and see what it sees!

Plan and Move: Draw a path for Tyche to follow.

TYCHE

Talk to Tyche

TALK TO TYCHE:

Personal companion that talks with, listens to, and entertains you. You can personalize Tyche to your own liking. Give it a name, tell it what you like, register your face for recognition and social interaction, smile for Tyche to be happy, and many other interesting talks!

- Preparation 1: Setting your device to improve Talking Tyche performance
- Preparation 2: Download Talking Tyche App from Google Play™. (Keyword : Tyche or Bonavision)

Language and input

- Google Keyboard (English (US))
- Google voice typing (Automatic)
- Könele
- Samsung keyboard (Samsung keyboard)
- Speech
 - Voice recognizer (Könele (fast recognition))
 - Voice search
 - Text-to-speech options
- Mouse/trackpad

Make sure your phone supports Text To Speech for English.

Make sure your phone supports Google Voice Recognition Service for English. The performance of Tyche listening capacity depends on the version of Google Recognition Service of your phone.

Tyche can recognize/show your facial expressions: Neutral, Angry, Sad, Happy, and Surprised.

Microphone condition

On : You can speak to Tyche

Mute : Please wait for seconds.

Change Tyche's Avatar Setting.

Tyche car body and phone connection

Connected successfully.

Not connected. (Please check Mini USB Connector)

Show / Hide the conversation content (text)

Show

Hide



Download the full guide of Tyche conversation topics at www.tyche.club

TYCHE

Plan and Move APP

Setting Page

Tutorial Page

Camera View

Animated Tyche

Animated Steering

Turn On/Off The Light

PLAN AND MOVE APPLICATION:

Draw a path for Tyche to follow

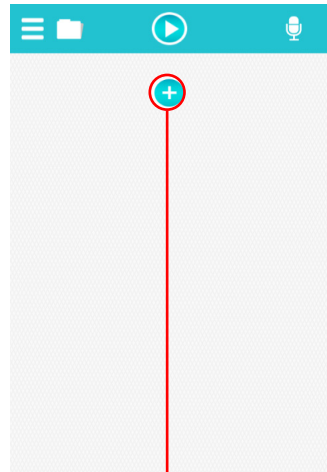
- Tyche moves along the defined path.
- Check the collision detection box to avoid obstacles.
- Can take a picture and return with the Go N back execution.



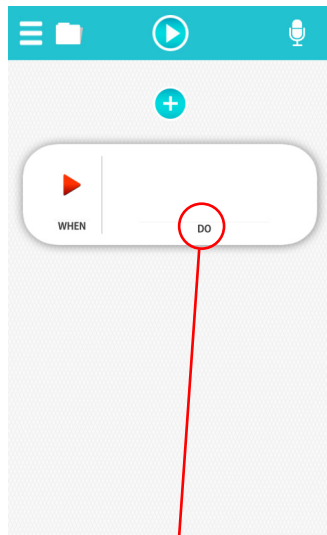
Download Plan and Move App manual from www.tyche.club for more explanation.



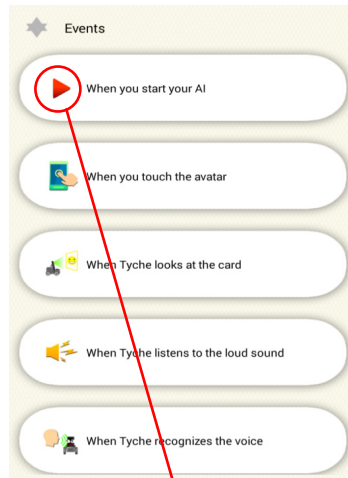
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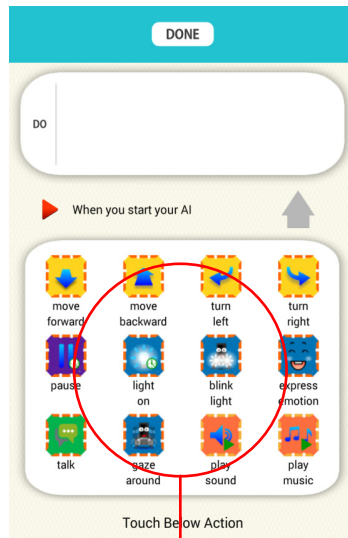
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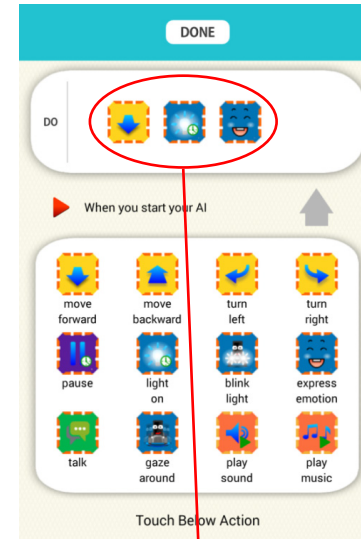
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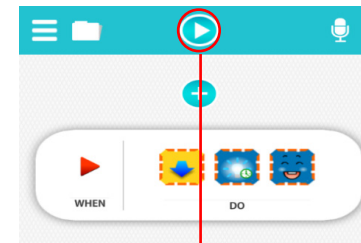
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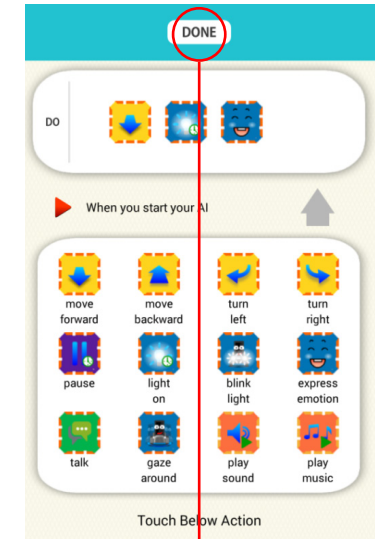
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6



8



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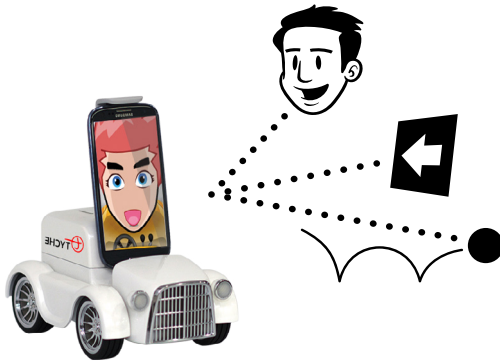
BUILD YOUR OWN INTELLIGENCE APPLICATION (BYOI):

This application provides the basics to assemble simple actions through simplified event buttons. Some of the main events include Music, Sound, Move, Vision, and many others. The App will give you the power to;

- Imagine, create, learn, and have fun with BYOI
- Jumpstart your programming skills
- Play social interaction games with other Tyches



Download BYOI App manual from www.tyche.club for more explanation.

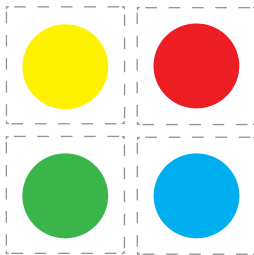


VISION APPLICATION:

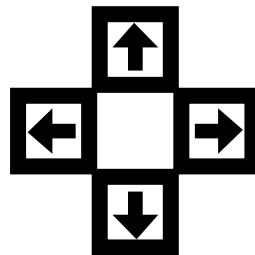
Face tracking, ball tracking, and marker tracking are some fun features of Tyche. Tyche knows what you look like and can follow your face to keep you in its view. Hold up arrows to direct Tyche and have it navigate around the house.



FACE



BALL



MARKER

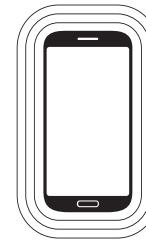


Download Vision App manual and the tracking symbols (balls and markers) from www.tyche.club for more explanation.



REMOTE COMMUNICATION:

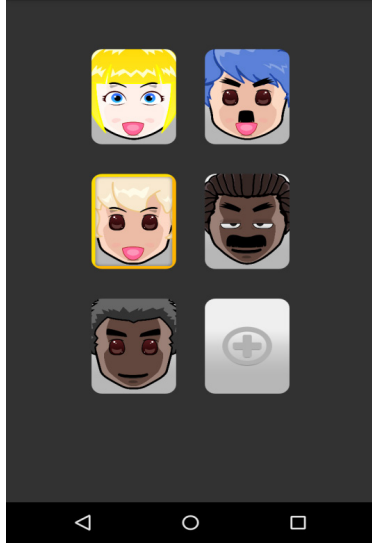
Two devices can be connected through Wi-Fi™ or Bluetooth® services. The online manual explains the connection process. When connected, you can see through Tyche's eyes!



Download Remote Communication App manual from www.tyche.club for more explanation.

TYCHE

Avatar Mode



AVATAR CREATION:

Customize Tyche to your liking! Choose from different face shapes, hair styles, and many other features to bring Tyche to life.

Tyche's avatar even responds to touch events. Play around and see how Tyche reacts!

1. The list shows the created avatars
2. A yellow rectangle forms around the currently selected avatar
3. Up to 9 different avatars can be added by clicking on the plus (+) button
4. Click on any avatar to make it main, edit or delete

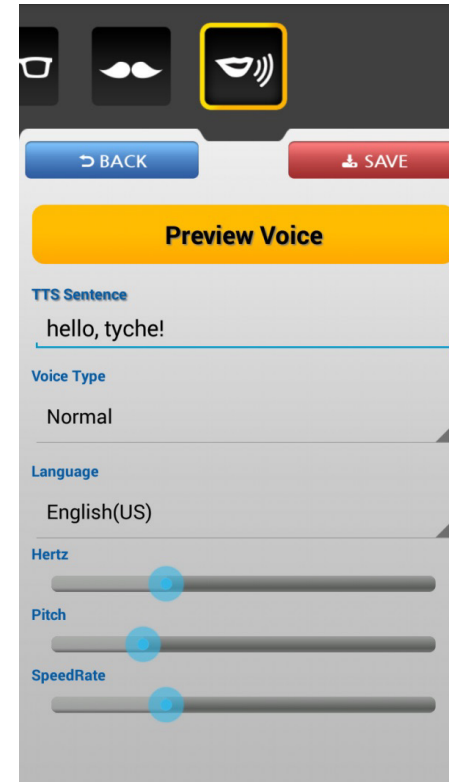


AVATAR COMPONENTS SUPPORTED:

Swipe through the choices to select the best combination for your own Tyche avatar. Save for the changes made to take effect.

TYCHE

Voice Communication



VOICE CUSTOMIZATION:

Tyche's voice can also be customized by adjusting the settings as shown. Save for changes to take effect.

FAQS

Q. TYCHE DOES NOT RESPOND WHEN I GIVE IT COMMANDS.

A. After checking the connection between Tyche and your smartphone device, please try executing the commands again. Some applications like Talking Tyche and BYOI depend on the internet for speech recognition. Make sure you are connected and try again.

Q. ALTHOUGH THE APPLICATION IS TERMINATED, TYCHE CONTINUES TO MOVE AND TURN ON THE LIGHTS.

A. Please turn off Tyche's power button to reset the robot.

Q. TYCHE MOVEMENTS ARE SLOW AND IMPRECISE.

A. This happens due to low battery. This problem can be solved by recharging Tyche.

CERTIFICATION AND SAFETY:

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

CERTIFICATIONS:

- ASTM and CPSIA certification (USA):

Testing/Inspection for hazardous substances that are either banned for use or restricted to certain limits in toys and stationary products to protect children from possible danger that could happen while playing.

- FCC certification (USA):

Electromagnetic wave safety inspection

- UL certification (USA & Canada):

The Battery Pack stability.

- UN DOT certification (USA & Canada):

Battery Pack safety during transportation by aircraft.

- KCC (Korea):

Electromagnetic wave safety inspection

KC Battery certification (Korea):

Battery Pack safety during transportation.

KC Safety Inspection Standards(Korea):

Testing/Inspection for hazardous substances that are either banned for use or restricted to certain limits in toys and stationary products to protect children from possible danger that could happen while playing.

ANDROID LICENSE:

Android is a trademark of Google Inc. The Android robot is reproduced or modified from work created and shared by Google and used according to terms described in the Creative Commons 3.0 Attribution License.

Thank you for purchasing Tyche™ from Bonavision Inc. Our warranty obligations for Tyche™ are limited to the terms set forth below. Bonavision Inc., warrants to the original end-user purchaser that this Product (Tyche™), will be free from defects in materials and workmanship under normal use for a period of **1year** from the date of retail purchase (the "Warranty Period"). This warranty is extended only to the original end-user purchaser of a new product that was not sold "as is".

If a defect arises:

(1) you may within 30 days from the date of retail purchase (or such other period specified by the return policies of the place of purchase) return this Product to the place of purchase, together with the original proof of purchase and either the original box or the UPC code label from the box, and this Product will be replaced or, in the event that a replacement for this Product is not available at the place of purchase, either a refund of the purchase price for this Product or a store credit of equivalent retail value will be provided; or

(2) you may after the day that is 30 days from the date of retail purchase (or such other period specified by the return policies of the place of purchase) and within the Warranty Period contact Bonavision Customer Support to arrange for the replacement of this Product. Notwithstanding the foregoing terms of this warranty, Bonavision reserves the right at all times, at its sole option and discretion, to refund to you the purchase price paid by you for this Product in full and final settlement of Bonavision's obligations under this warranty. A purchase receipt or other proof of the date of retail purchase and purchase price is required in order to claim the benefit of this warranty. If this Product is replaced, the replacement product becomes your property and the replaced Product becomes Bonavision's property. If the place of purchase refunds the purchase price of this Product or issues a store credit of equivalent retail value, this Product must be returned to the place of purchase and becomes Bonavision's property. If Bonavision refunds the purchase price of this Product, this Product must be returned to Bonavision and becomes Bonavision's property.

EXCLUSIONS AND LIMITATIONS:

This warranty covers the normal and intended use of this Product. This warranty does not apply:

(a) to damage caused by accident, abuse, unreasonable use, improper handling and care or other external causes not arising out of defects in materials or workmanship; (b) to damage caused by service performed by anyone who is not an authorized representative of Bonavision; (c) to any hardware, software or other add-on components installed by the end-user; (d) if this Product has been disassembled or modified in any way; (e) to cosmetic damage, including but not limited to scratches, dents or broken plastic, or normal wear and tear.

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EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW, BONAVISION IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES HOWSOEVER CAUSED RESULTING FROM BREACH OF WARRANTY OR CONDITION OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE. THE FOREGOING LIMITATION SHALL NOT APPLY TO DEATH OR PERSONAL INJURY CLAIMS, OR ANY STATUTORY LIABILITY FOR INTENTIONAL AND GROSS NEGLIGENT ACTS AND/OR OMISSIONS.



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Customer service: help@bonavision.com / www.tyche.club
Customer support is only available in English for international and Korean for Korean market. We recommend that you retain our address for future reference. Product and colors may vary. Packaging printed in Korea.
WARNING! This product is recommended for children of 8 years and above.
This user manual should be kept as it contains important information.
Made in Korea



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Bonavision Inc. Korea
2F JungJu Bldg., 20 Banpo-daero Seocho-Gu, Seoul Korea 06716

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