WITH PHONE

With Phone Manual

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With Phone is a smartphone-style communication tool for use inside VRChat. This manual explains how to install it, how to use each feature, and what to do when something does not work.

- Terms of Service, Privacy Policy, and Safety: https://withphone.alive02.com/
- Contact: support@alive02.com

1. Requirements

Item	Details
VRChat	PC version (Windows 10 / 11). It does not work on standalone Quest
Play style	Both VR and desktop are supported. On desktop, you can operate it with the mouse in Pen mode
Unity	2022.3
Required tools	Modular Avatar
VRChat settings	Please enable OSC
Voice calls	Microsoft Edge or Google Chrome
Login	A Discord or Google account
VR screen (optional)	SteamVR. Used to show Nyarcadia and similar content on a VR screen

The synced parameters use about 49 bits for the standard version and about 25 bits for the Lite version (the VRChat limit is 225 bits).

2. Package Contents

File	Details
WithPhone.unitypackage	The main With Phone package that you add to your avatar. It contains the standard version (WithPhone.prefab) and the Lite version (WithPhone_軽量版.prefab)
WithPhone folder	The companion app "WithPhone.exe" that runs on your PC, and the files it needs
Manual (PDF)	This manual. Available in 日本語, English, 한국어, 简体中文, and 繁體中文

VRChat avatars cannot communicate with the internet directly. WithPhone.exe connects VRChat (OSC) to the With Phone server.

3. Installation

3-1. Add it to your avatar (Unity)

1. Make sure Modular Avatar is installed in your avatar project.
2. Import WithPhone.unitypackage into the project.
3. Choose one prefab from Assets/VRCPhone and place it directly under your avatar in the Hierarchy.
   - WithPhone.prefab: Standard version
   - WithPhone_軽量版.prefab: Lite version (see "4. About the Lite Version")
4. If needed, adjust the holding position and other settings (see "13. Adjusting in Unity").
5. Upload the avatar as usual.

> Because With Phone uses many custom shaders, the first import and the first upload may take a few minutes while the shaders are prepared. It will be faster from the second time on.

3-2. Start WithPhone.exe

1. Extract the downloaded zip file to any location you like. Do not run the app directly from inside the zip file.
2. Start WithPhone.exe in the "WithPhone" folder inside the extracted folder.
3. The first time, a login page opens in your browser. Log in with Discord or Google (this is not required from the next time on).
4. When the With Phone window shows "Waiting for VRChat", you are ready.

Please keep the With Phone window open while you are playing VRChat (you may minimize it). Closing the window also closes With Phone.

> If Windows shows "Windows protected your PC", please read "15. About the Safety of WithPhone.exe".

3-3. Enable OSC in VRChat (first time only)

1. Open the Action Menu → Options → OSC, and turn on Enabled.
2. Make sure VRChat is set to write its log (see "14. About the VRChat Log"). If you have not changed the default settings, no change is needed.

WithPhone.exe automatically recreates your avatar's OSC configuration file, including after you update to a new version. If the display looks wrong, press "Reset Config" once in the Action Menu → Options → OSC.

3-4. Bring out With Phone

In the Action Menu, open WithPhone and select "Hold in Left Hand" (or "Fix in Front").

4. About the Lite Version

For avatars with little room left for synced parameters, a Lite version (WithPhone_軽量版.prefab) is available.

- Synced parameters: standard version about 49 bits / Lite version about 25 bits
- The only difference is that the cat companion is not visible to other people. On your own screen, the cat companion behaves the same as in the standard version, and you can still use Cat Camera and Cocotto Tail.
- Place only one of the two versions, standard or Lite, on your avatar.

5. Updating to a New Version

1. Import the new WithPhone.unitypackage over the existing one. You do not need to remove the WithPhone object from your avatar, and the values you adjusted in the Inspector are kept.
2. Upload your avatar again.
3. Extract the new zip file and use the new WithPhone.exe. Your photos are in the "photo" folder of the previous folder, and the cat talk add-on packages are in the "llm" and "stt" folders of the previous folder. Move them to the new folder if needed.

Even if you delete the WithPhone object from your avatar and place it again, the values you adjusted in the Inspector are restored automatically (a backup for each avatar is saved in the project's UserSettings/WithPhone).

When a new version is released, Unity notifies you once a day. You can also check from Tools → With Phone and open the BOOTH page from there.

6. Basic Operation

Holding and operating

- VR: Hold With Phone in your left hand and touch the screen with your right index finger. When it is fixed in front of you, you can also press with your left index finger.
- Desktop: Press Alt+F inside VRChat to enter Pen mode, which lets you operate it with the mouse (see "12. Desktop Operation (Pen Mode)").

Power and opening

Hold the glowing button at the top of the device's stick for 1 second to turn the power on. Hold it again to turn the power off. A short press opens or closes the screen.

Home

Apps are lined up horizontally. Press an app to open it. The ring below the clock on the device's stick (the Home button) takes you back to Home.

App	Details
Messages	Chats with friends, groups, and voice calls
Cat Camera	Take photos from the cat companion's point of view
Screen Share	Show your screen to others
Cocotto Tail	Raise the cat companion, fishing, Talk, and Nyarcadia
Settings	Language, volume, microphone, speaker, and more
Alarm	Set a time for an alarm to ring
Call someone	Make a voice call with a random With Phone user
Browser / SNS / Live Translate	Features planned for the full version (marked with a lock)

History (Task Ring)

Swipe up from the bottom center of the screen to arrange the cards of your open apps in a ring around you. Swipe sideways to rotate the ring, press a card to open that app, and swipe a card upward to close that app.

Buttons on the right of the screen

Button	Details
Bottom (nameplate)	Hides or shows VRChat nameplates (the same as Ctrl+N in VRChat)
Middle (cat)	Brings the cat companion back to you, and switches the cat's behavior between "Follow" and "Rest on the frame"
Top (resend)	Resends the whole display when the screen or icons look broken

Action Menu (inside WithPhone)

Item	Details
Hold in Left Hand	Holds With Phone in your left hand
Fix in Front	Shows With Phone in front of your face and fixes it in place
Open	Opens or closes the screen (the same as the button on the device)
Friend Exchange	Touch two With Phones together to exchange friends
Extend Left Arm	(Desktop) Puts your left arm out in front of your chest. Used for Friend Exchange
Pen Mode Zoom	(Desktop) The size of the Pen mode window
Pen Mode	(Desktop) Operates With Phone with the mouse
Silent Mode	Mutes notification sounds and ringtones
Grab Mode	(VR) Lets you grab With Phone with your left hand and move it while it is fixed in front of you
Pointer / Left-Handed Pointer	(VR) Operates it from a distance with a ray from your hand and the trigger
Phone Size	The size of With Phone (0% = standard to 100% = 5x)
Cat size	The size of the cat companion (1x to 3x)

Settings

Item	Details
Language	日本語 / English / 한국어 / 簡体中文 / 繁體中文
Volume	The volume of With Phone sounds (startup sound, notifications, ringtones, alarms, and so on). It affects only you
Mic settings	The microphone used for voice calls. If you use a voice changer, select its output (virtual cable)
Speaker	The device that plays the other person's voice during calls
Pen sensitivity	(Desktop) The speed of the pen tip in Pen mode

Changing "Language" at the top of the Unity Inspector also switches the language of the Inspector and the Action Menu.

7. Messages

Friends and Chats

- The menu on the left contains Friends (your friend list), Chats (people and groups you have talked with), and Settings.
- Press a friend to show their profile. Use the speech bubble to start a chat, and the receiver icon to start a voice call.
- The dot at the bottom right of an icon is green for Online, orange for Busy, and gray for Offline.
- While the other person is typing, "Typing" is shown at the bottom of the conversation.
- Messages that arrive while WithPhone.exe is closed are shown as unread counts on Home and in Chats when you start it.
- Even when you are using an avatar without With Phone, you are notified of messages in a small window at the bottom right of the screen (in VR, as a SteamVR notification). This is controlled by "Notify on other avatars too" in the With Phone window.

Adding friends

- Tell the other person your "Friend code", shown in the Messages settings, and enter their code under "Add friend".
- Alternatively, both of you turn on "Friend Exchange" in the Action Menu and touch the sticks of your With Phones together.
- You can send friend requests to members of the same group from within the group.

Your profile

You can change your name, status message, icon, and presence (Online / Busy) in the Messages settings. If you turn on "Show world", your friends can see the world you are currently in (off by default).

Official account

The official operator account (//Alive: 02;) is in your friend list from the start. It is used for announcements from the operator.

8. Groups

You can create groups with friends from Chats.

- A group can have up to 20 members, and a group call can have up to 6 people.
- Any member can change the group's name and picture. Any member can also add members.
- The person who created the group (the owner) can remove members and delete the group. To remove a member, hold the remove button.
- When a group is deleted, all of its messages and records are deleted.
- During a group call, a mute mark is shown at the bottom right of the icon of any member who is muted.
- People using an old version of With Phone cannot be added to a group. Please ask them to update to the new version.

9. Voice Calls

Calling a friend

Press the receiver icon on a friend's profile to call them. The call connects when they press "Answer".

- Use the volume bar on the call screen to change the volume of the other person's voice (0 to 200%).
- Use the mute button to turn off your own microphone.
- When you close the call screen, an in-call tag floats above the device. Press it to return to the call screen.
- During a call, a small call window of Edge or Chrome runs on your PC without being shown.

Call someone

Open "Call someone" on Home and press the large button to be connected at random with another With Phone user who is also looking for someone to talk to.

- You can choose the other person's language from Worldwide / JP / KR / EN / CN. You are only matched with people whose preferences match yours.
- The other person can only see your With Phone name.

About voice relaying

Voice is encrypted and delivered through a relay server, so your IP address is not revealed to the other person. The operator does not record calls.

10. Screen Share

From "Screen Share" on Home, choose who to show your With Phone screen to.

- Show it to selected friends in the same instance
- Show it to all With Phone users in the same instance

Your screen floats above the With Phone of the people watching. Up to 7 people in the same instance can share at the same time, and each person can view up to 4 screens at once.

> While sharing, anything shown on your screen (such as messages) is also visible to others. Stop sharing when you are on a screen you do not want to show.

11. White Cat, Cocotto Tail, and Nyarcadia

Cat companion

When you turn on the power, a cat companion is born from quantum particles. It rests on top of With Phone or flies around in the air. Poke it with your fingertip (on desktop, click it with the pen tip) and it will be happy.

Cat Camera

When you open "Cat Camera" on Home, the cat companion holds a camera. The With Phone screen is the viewfinder.

- Use the stick at the bottom left to move forward, back, left, and right, ▲▼ to move up and down, drag the view to change direction, and use the mouse wheel to zoom.
- On desktop, you can move with WASD, move up and down with Space / C, and move faster with Shift.
- The white circle is the shutter. A timer (OFF / 3 / 5 / 10 seconds) and portrait photos are also available.
- Photos are saved as PNG files in the "photo" folder next to WithPhone.exe.

> If the face mirror is turned on, it will appear in your photos. Turn it off before taking a photo.

Cocotto Tail (raising the cat companion)

An app where you give the cat companion a name and spend time together.

Feature	Details
Friendship	Increases through care and play. Features and outfits unlock according to your level (1 to 10)
Food / Treat	When you give food, the cat companion on the device actually acts out eating
Fishing	Cast → tap when you get a bite → hold to reel in. The fish you can catch depend on your rod and bait. You can feed caught fish to the cat or sell them
Shop	Use coins earned from fishing and games to buy rods, bait, food, and outfits. You can also sell fish
Dress up	You can put a ribbon, collar, scarf, hat, and more on the cat companion. Other people can see them too
Daily reward	Open the app every day to receive rewards on a 7-day cycle
Outing	Touch two people's With Phones together and the cats play with each other
Talk	Chat with the cat companion by text or voice (see "Talk" below)

When the cat companion is hungry or lonely, it lets you know with a notification.

Talk (cat talk add-on package)

A feature for talking with the cat companion by text or voice. It uses a small language model (LLM) and speech recognition (Whisper) that run on your PC, so you need to download the "cat talk add-on package" the first time. You can install it when WithPhone.exe starts, or from Cocotto Tail → Talk.

Language	Download size
日本語	About 1.4 GB
English / 한국어 / 简体中文 / 繁體中文	About 1.3 GB

- What you say to the cat, your voice, and what the cat remembers are stored only on your PC and are not sent to the operator.
- Turn on "Talk by voice" to talk to the cat with your microphone. You can also toggle it with Alt+T.
- The cat's replies are shown at the bottom right of the screen and in a speech bubble above the cat's head.
- You can view and delete the cat's memories from "Memories".
- You can delete installed add-on packages one at a time from "Add-on packages" in the With Phone window.

Nyarcadia (card battle)

A card battle game you can play from Cocotto Tail → Play → Nyarcadia.

Mode	Details
Play solo	Play against the CPU
Online match	Play against an opponent with a similar rating (starting at 1500). Coins are used for the entry fee and the reward for winning
Play a friend	Send an invitation message to a friend and play against them
Deck	Choose 20 cards from 28, and choose 2 of the 5 Nyaltimates (special moves). Your deck is saved to your account

- In desktop Pen mode, the board is shown overlaid on your screen.
- In VR, it is shown on a SteamVR screen. Press with the trigger, grab and move it with the grip, and resize it from the corners. If you are not using SteamVR, it is shown on the With Phone screen.
- Use "−" at the top right of the board to minimize it and "×" to close it. The match continues while it is minimized.
- You can change the volume and language from "Settings" on the title screen.

12. Desktop Operation (Pen Mode)

Press Alt+F inside VRChat to enter Pen mode. A small window showing With Phone appears on your screen, and you can operate it by moving the pen tip with the mouse.

- Click to press. Move while holding the button to flick or scroll.
- You can still move with WASD in Pen mode.
- Press Alt+F, right-click, or press Esc to exit Pen mode.
- You can change the size of the small window with "Pen Mode Zoom" in the Action Menu, and the speed of the pen tip with "Pen sensitivity" in Settings.

Keyboard

- You can switch between kana (flick input), English letters (QWERTY), romaji input, and numbers/symbols. English uses the QWERTY keyboard. For Korean, a 2-set (Dubeolsik) keyboard is used.
- When you type kana, kanji conversion candidates are shown above the keyboard. Conversion is done by Microsoft IME on your PC, and what you type is never sent outside your PC.
- While the With Phone keyboard is open, you can also type with your PC keyboard (Enter to send, Shift+Enter for a new line).

13. Adjusting in Unity (Inspector)

Select the WithPhone object you placed on your avatar to show its settings in the Inspector. Because body shapes differ between avatars, adjust the settings here if things do not fit.

Item	Details
Language	The language of the Inspector and the Action Menu
Left-hand WithPhone position	The position and rotation for "Hold in Left Hand"
Left hand (fingertip touch)	The touch position used when pressing with your left index finger (fingertip length and height)
Right hand (fingertip touch and Pen Mode [Desktop])	The touch position of your right index finger, the placement for Pen mode, and how the right arm bends
Fixed-in-front position	The position for "Fix in Front"
Notification orb	The position of the glowing notification orb

While you are adjusting, the avatar's bones are moved temporarily. They return to normal when you finish adjusting. Please finish adjusting before doing other work, such as changing outfits.

14. About the VRChat Log

WithPhone.exe reads the record files (logs) that VRChat writes on your PC to determine the world and instance you are in, and whether you are in VR or on desktop.

- Features that use the log: Friend Exchange, Screen Share, Show world, the current location shown on Home, and switching between VR and desktop
- It reads only the lines written when you enter a world (the world name and instance number) and the lines that show whether you are in VR or on desktop.
- The instance number is converted into a form that cannot be reversed (a hash) before it is sent to the server.
- The world name is sent to the server only when "Show world" is turned on in Settings.

VRChat writes its log by default. If Logging is turned off in VRChat's settings (Settings → Debug), turn it on and restart VRChat.

15. About the Safety of WithPhone.exe (Please Read)

WithPhone.exe is developed by an individual and does not yet have a code signature (a digital signature that proves the publisher). Because of this, Windows or your antivirus software may show a warning.

When "Windows protected your PC" appears

Click "More info" → "Run anyway" to start it. If you are concerned, check the file using the methods below before starting it.

Checking that the file is genuine

- You can upload it to VirusTotal (https://www.virustotal.com/) to have it scanned by many antivirus products at once.
- You can compare the file's fingerprint (SHA-256) with the value listed on the BOOTH page. Open PowerShell in the folder containing WithPhone.exe and run `Get-FileHash .\WithPhone.exe`.
- It is distributed only from the BOOTH page. Do not use a WithPhone.exe distributed anywhere else.

When antivirus software blocks it

Please add it to your antivirus software's exclusions. If possible, please also contact support (support@alive02.com). We will report it to the antivirus vendor as a false positive.

What WithPhone.exe does

- Exchanges values with With Phone on your avatar through VRChat's OSC (only within this PC).
- Communicates with the With Phone server (https://withphone.alive02.com) over an encrypted connection to deliver messages, calls, and Screen Share.
- Runs a helper program (helper.ps1, included in the same folder in a readable form) to display the With Phone window and Pen mode.
- Receives Alt+F and mouse movement only while in Pen mode. It receives Alt+T (Talk by voice) only while VRChat is in the foreground.
- Receives the characters you type on your PC keyboard only while the With Phone keyboard is open.
- Listens to the selected microphone only while "Talk by voice" is on. Speech is converted to text on your PC and is neither saved nor sent.
- If you install the cat talk add-on package, runs the language model and speech recognition programs on your PC. Downloads happen only after you confirm, and only files whose integrity (SHA-256) has been verified are installed.
- When you use SteamVR, reads controller input and shows the VR screen.
- Captures the VRChat screen as a photo only when you press the Cat Camera shutter.
- Reads the position of With Phone on your screen to display the Nyarcadia board and the "Fix in Front" view.
- Runs a small call window of Edge or Chrome and uses your microphone only during voice calls.
- Keeps an activity record (log) in the logs folder next to WithPhone.exe (the 10 most recent files; message contents are not included). Please send these when reporting a problem.
- Saves settings, login information, and encryption keys in %APPDATA%\VRCPhone.

What WithPhone.exe does not do

- It does not change Windows settings or other software.

- It does not start automatically when your PC starts.
- It does not receive any keyboard input other than in Pen mode, while typing on the keyboard, and Alt+T. It never reads passwords or other input.
- It does not save or send the screens of other apps.
- It does not write message contents to the log, and it does not send them to the server in a form the operator can read (end-to-end encryption).

> About administrator privileges: If SteamVR is running as administrator, WithPhone.exe running with normal privileges cannot connect to SteamVR. Only in that case, it asks whether to restart as administrator. Restarting Steam normally is the most reliable solution.

Uninstalling

1. Close the With Phone window.
2. Delete the extracted folder (your photos are in the "photo" folder; move them first if you want to keep them).
3. To also delete your settings and login information, delete the %APPDATA%\VRCPhone folder as well. The key.json file in this folder is your encryption key. If you delete it, you will no longer be able to read past messages on this PC.

To delete your account, please contact support@alive02.com.

16. Troubleshooting

Symptom	Solution
"Port 9001 is used by another app" is shown	Close other apps that use OSC, such as VRCX, and start it again. You can also choose a different port in the With Phone window
It stays at "Waiting for VRChat"	Check that OSC is Enabled in VRChat
The With Phone screen does not appear or looks wrong	Press Action Menu → Options → OSC → Reset Config once
The screen or icons look broken	Press the resend button on the right of the screen
The screen shows that the bridge is not running	Start WithPhone.exe
Home shows "Can't read the VRChat log"	Turn on Logging in VRChat's settings (Settings → Debug) and restart VRChat
Calls do not connect	Check that Edge or Chrome is installed, and that "Mic settings" in Settings is correct
The Nyarcadia panel does not appear in VR	Start SteamVR. If Steam is running as administrator, restart it normally
The pointer's trigger does not work (Pico 4, etc.)	Use it with SteamVR running
Not enough synced parameters when uploading	Use the Lite version (WithPhone_軽量版.prefab)
Facial expressions break when you switch avatars with an expression set and then switch back	This is caused by VRChat's behavior and also happens with other avatars. Reloading the avatar fixes it

If the problem is not solved, please send support@alive02.com a description of what you did and what happened, along with a screenshot and the newest file from the logs folder next to WithPhone.exe.

17. Notes

- This is currently a public beta. Features may be added or changed, data may be reset, and the server may be temporarily stopped without notice.
- It is free during the beta period. We plan to offer it as a full version (paid license) in the future. Beta users will never be charged automatically.
- With Phone is an independent service provided by Alive:02 and is not affiliated with VRChat Inc. It never accesses your VRChat account information and does not modify the VRChat client.
- You must agree to the Terms of Service and Privacy Policy to use With Phone (you are considered to have agreed when you log in).
