YOLINK





YS1604-UC, YS1604-EC



Revision Oct. 30, 2024

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Thank you for purchasing YoLink products! We appreciate you trusting YoLink for your smart home & automation needs. Your 100% satisfaction is our goal. If you experience any problems with your installation, with our products or if you have any questions that this manual does not answer, please contact us right away. See the Contact Us section for more info.

Thank you!

YoLink Customer Support

User Guide Conventions

The following icons are used in this guide to convey specific types of information:



Very important information (can save you time!)



Good to know info but may not apply to you

Visit our Smart SpeakerHub support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

https://www.yosmart.com/support/YS1604-UC

Or by scanning the QR code:



Download the most current version of the user guide by scanning the QR code:



YoLink hubs are the gateway to the internet for your YoLink devices. As opposed to many smart home systems, the individual devices are not on your network or WiFI and are not directly connected to the internet. Instead, your devices communicate with the SpeakerHub, which connects to the internet, the cloud server and the app. Your SpeakerHub requires a full-time internet connection, provided by your WiFi. Please note, like most IoT and home automation devices, your SpeakerHub connects only to the 2.4 GHz WiFi band. Nearly all residential WiFi routers have a 5 and a 2.4 GHz band. But your router may or may not display SSIDs for both bands or they may both have the same name. If you know which SSID is your 2.4 GHz band, this is the one your SpeakerHub will connect to. With some exceptions, your router and the SpeakerHub will connect automatically via 2.4 GHz. Some routers may attempt to connect your SpeakerHub to 5 GHz. Additional setup support may be needed, for example, changing your router settings. Refer to the WiFi Considerations section in the user guide, for more information.

•

"5 GHz" should not be confused with "5G" cell phone service

You can have multiple hubs, including a combination of this SpeakerHub and other YoLink hubs. While the YoLink wireless network has up to a ¼ mile open-air range, additional hubs may be required in large buildings, such as high-rises, and/or to support thousands of devices.



Multi-step authentication WiFi networks, like hotel or airport WiFi, are not supported!

C In the Box



SpeakerHub



Quick Start Guide



USB Cable (Micro B)



AC/DC Power Supply Adapter

Please take a moment to familiarize yourself with your new SpeakerHub, in particular the LED behaviors and SET button functions.



Power Status LED

Feature Status LED

WiFi Status LED

SET Button

Press and Hold 5-10 seconds: WiFiSetting Press and Hold 20-30 seconds: Factory Reset (will erase all the WiFi connection history)

Volume -

Press to reduce the volume, you can not silent the device using this button

Volume +

Press to increase the volume



Power Port

Audio Output

LED Behaviors

- Green PWR LED Flashing Power On
 - Blue Internet LED On Solid Connected To Internet
- Blue Internet LED Flashing Quickly Wifi Settings Change



Red FEAT LED Flashing Slowly Device Updating

Red FEAT LED Flashing Quickly Restoring To Factory Defaults If you are new to YoLink, please install the app on your phone or tablet, if you have not already. Otherwise, please proceed to the next section.

Scan the appropriate QR code below or find the "YoLink app" on the appropriate app store.



Apple phone/tablet iOS 9.0 or higher



Android phone/tablet 6.0 or higher

Open the app and tap **Sign up for an account**. You will be required to provide a username and a password. Follow the instructions, to set up a new account. Allow notifications, when prompted.

You will immediately receive a welcome email from no-reply@yosmart.com with some helpful information. Please mark the yosmart.com domain as safe, to ensure you receive important messages in the future.

Log in to the app using your new username and password.

The app opens to the **Favorite** screen. This is where your favorite devices and scenes will be shown. You can organize your devices by room, in the **Rooms** screen, later. F Add Your SpeakerHub to the App

1. Tap **Add Device** (if shown) or tap the scanner icon:



2. Approve access to your phone's camera, if requested. A viewfinder will be shown on the app.



3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.

4. You can change the device name and assign it to a room later. Tap **Bind device**.

5. If successful, the screen will appear as shown. Tap **Done**.





If you experience difficulties scanning in a new device, ensure the code is not dirty or smudged, and that the camera has adequate lighting. If you are still unable to scan a device, please make a note of the serial number for our customer support staff. This is the number right below the QR code, a long number preceded by "S/N" You can, and you may find it more convenient to, set-up your Hub at a desk or table before placing it or installing it where it will be permanently located.

For larger homes and buildings, and/or if you will have devices outside of your home, it's possible you may need to relocate the SpeakerHub to an optimal location, in order to cover your entire home, building or property. And should one hub not be sufficient, you can add as many hubs as you want, later, to extended the coverage of the YoLink wireless network.

The Hub is USB-powered and it will require a dedicated AC outlet for the included USB power adapter, or it can be plugged directly into a compatible USB outlet.

The SpeakerHub does not have an internal battery, it must be constantly plugged into a suitable source of power, as noted above.

You may consider powering your internet/network equipment and the hub from a UPS back-up power supply, with the purpose of maintaining full functionality in the event of a power outage and loss of internet connection. And, consider the use of our Control-D2D device-to-device pairing feature, which is outlined in the product user guides. Paired devices can work even with the loss of power and internet (battery-powered or backed-up devices, only). Your hub is intended to be installed indoors, and kept clean and dry.

Do not place your hub near sources of heat, like a space heater, as well as intense direct sunlight, either of which can damage the hub.

Avoid placing your hub inside, on or near metal, or sources of radio or electromagnetic energy or interference. Avoid placing your hub under or on top of your WiFi router, satellites or any such RF signals transmission sources.

H Power Up

1. Connect the supplied USB cable to the hub and to the power adapter as shown.

Plug in the adapter. Observe the green power (PWR) LED is blinking



There are considerations, using a WiFi connection with your Hub:

- Changes to your internet provider, internet equipment may require updating the WiFi-related settings in the YoLink app again.
- Changing your WiFi passwords or SSID
 name will require updating the WiFi-related settings in the YoLink app again.

A WiFi connection, may not be ideal for you if:

- Your WiFi is not dependable or stable.
- You are not the owner/administrator of the network/WiFi.
- You've forgotten or do not have the WiFi password.
- Your WiFi has a second verification process or additional security.
- You'd rather not share your WiFi credentials with additional apps.
- Please consider YS1603 or YS1605 Hub 3.



If you have a mesh and/or WiFi 6 type network, like a Google Nest, TP-Link Mesh, or Eero, you will most likely need to disable the 5GHz WiFi band while connecting your Hub. Helpful information can be found on the Hub's product support page, or contact our customer support department.

If your network requires opening ports or white-listing MAC addresses, helpful information can be found on the Hub's product support page.



1. iOS phones only: if prompted, enable Local Network Access. (Search "iOS location services" for more information)

2. If prompted, grant access to your location. Tap **Allow Once**. This is required for the next steps.

To check or edit Location Services on your phone:



Go to Settings, tap Privacy, tap Location Services Ensure Location Services is on/enabled. Scroll down to and tap the YoLink app Select While Using the App

Enable Precise Location

iOS:

Android:



Go to **Settings**, tap **Location**. Ensure Location is On. Tap **App Permissions**. Scroll down to and tap the YoLink app, then set permission to **Allowed Only While in Use**

Ensure you are logged into your WiFi:

1. In your phone, open WiFi settings (Settings, WiFi).

2. Identify your 2.4 GHz network, if possible. If there is only one SSID (network ID) you recognize, you will use that one.

3. Select the appropriate network and log-in, if needed.

4. If your SSID is hidden, you must manually log into it on your phone, by selecting "Other..." in Other Networks or Choose a Network.

2

Some routers allow you to "white list" a device based on its MAC address. The MAC address for your SpeakerHub can be determined by combining "D88B4C04" with the last four digits of the EUI number. The EUI number can be found in the device settings screen.



1. If you are able to, but have not already provided your Hub with an ethernet connection, as explained in the Connections & Power-Up section, do so at this time.

2. In the app, from the Rooms or Favorites screen, tap the YoLink Hub icon.

3. Refer to WiFi icon, it should read "Not Connected" – tap this icon.



4. Please carefully review the instructions on the **Setup Wi-Fi** screen. After pressing the SET button on the Hub, you will then log into the Hub's hotspot on your phone. This will need to be done with <u>no delays</u> between steps, otherwise the Hub will exit hotspot mode (in 5 minutes).

5. As directed in the app, press the Hub's SET button for 5 seconds or until the WiFi LED flashes rapidly.

6. <u>Without closing the YoLink app</u>, go to your phone's WiFi settings and log into the Hub's WiFi hotspot. It is identified as YS_1603######. Disregard any messages that may appear, warning you the hotspot does not have an internet connection. If requested, approve "Once" or "This Time Only"



If you get an error message "failed to obtain Wi-Fi" grant access to your phone's location data, per the previous section.

7. If you see a "connect to device timeout" message, tap **Close**.

8. Promptly return to the YoLink app. Check the "Please confirm the above operation" checkbox. Tap **Continue**. The Enter WiFi Password screen appears as shown.



9. In the **Choose a WiFi box**, select your 2.4 GHz SSID from the drop-down menu list, or type in your SSID, if needed.

10. Enter your WiFi password, then tap **Continue**.

11. After a short process, the **Set up WiFi successfully** message is displayed, as shown. Tap **Done**.

12. If your Hub was not already connected to internet, the Hub's blue internet status LED should now be on solid, indicating the Hub is connected to the internet.

13. Your Hub may appear offline in the app, if it was not already connected to the internet via the Ethernet cable. Tap the refresh icon or swipe down on the screen, to refresh the app.

14. In the app, confirm the WiFi icon is green (indicating a WiFi connection), with your SSID name shown below it.

15. If you are not leaving your Hub connected to Ethernet, you may remove the Ethernet patch cord at this time. Verify the Hub's WiFi LED indicator remains a solid blue, and in the app, the Hub online.

16. If you are moving your Hub to its permanent location, you can do so at this time. Verify the Hub comes online automatically shortly after being powered back up.



If you experience difficulties connecting the Hub to your WiFi, try temporarily disabling or turning off your 5 GHz band. Check for this option in your router's app, or by connecting to your router via a browser interface (refer to your router

documentation, as needed). For example, for the Eero router, in the app, go to Settings,

Troubleshooting, "My device won't connect", then tap "Temporarily pause 5 GHz".

In the app, tap on your SpeakerHub icon. Your main screen should be similar to the one shown below.



Tap the three dots (in the upper right corner) to open the **Details** screen. Your screen should be similar to the one shown below.

〈 Details	0	/ Device Type
Туре	Speakr	/ Device Name (Tap to Edit)
Name	SpeakerHub >	Room (Tap to Edit)
Room	Not Set >	
Favorite Will show in favorite screen	\heartsuit	Favorite (Red if Favorite, Tap to Edit)
Alarm Strategy	Disabled >	 Alarm strategy for this device
You will be notified according to se strategy when hub offline	lected alarm	
View your alarm strategies		
State	Online	Device online/offline state
Device		
Volume (Level: 10)		- Speaker volume level
٢		(1 minimum, 16 max.)
Enable beep		 Enable speaker beep (enables feedback beep as well as other device sounds, such as start-up sound)

App Functions: Device Details Screen, Continued

<	Details	0	
Network			
Wi-Fi		VanzoNet >	— Your WiFi network name
Current Network		Wi-Fi	
IP Address		10.0.0.69	- ID Address info
Gateway		10.0.0.1	IF Address into
Network Mask	25	55.255.255.0	
Other			
Model		YS1604-UC	Model Number
Device EUI	d88b4c	1604000025	Device EUI Unique Identifier Number
SN	0B0C1C9	03E 器 > —	— Device Serial Number
Firmware		0407	Firmware Revision (Refer to page 29)
	Delete	-	Remove Device From Current Account Tap to delete the device from your YoL ink account

App Functions: Alarm Strategy (Hub Offline Alarm)

To configure offline notifications for your hub, follow these steps:

1. Navigate to the 'Device Details' screen.

2. Select 'View your alarm strategies' to access alarm strategy settings.

3. Tap the '+' icon located in the lower right corner to create a new alarm strategy specifically for your hub.

4. In the new strategy, ensure that your hub is selected (indicated by a checkmark).

5. Finally, customize the notification settings as per your requirements.



Your SpeakerHub can broadcast a message via the following methods:

- Manually, from the device screen
- Automatically per your Alarm Strategy settings
- As part of a scene, triggered from a strategy, manually triggered by the user in the app, manually triggered by an AlarmFob or FlexFob activation
- As part of an automation, triggered by a device changing state or by schedule

The easiest way to start using your SpeakerHub is with it configured as a "trigger action" of an alarm strategy. An alarm strategy is just a fancy name for the checklist of things you want to happen when one of your devices alerts. As an example of an alert, when a leak sensor detects water. And as an example of a checklist: send me a text message and activate the SpeakerHub.

The easiest way to familiarize yourself with SpeakerHub's audio capabilities is to manually broadcast a message directly from the **Device** screen.



Do not panic if half of these terms are Greek to you. We will get you bilingual soon enough!

SpeakerHub Device Settings, Continued

Tap the back arrow to return to the main SpeakerHub screen shown in step 1. Tap the "play" icon (triangle)

This screen is used to create a one-time broadcast over the SpeakerHub. It is also good for testing your messages before adding them to a scene or automation.

<	Speaker Hub		Check this hav if you want a
Play tone			sound played before your spoken message
Play audio	No	ine 🔻 .	Tap for the voice message settings
	Advanced Settings		You can repeat the
Repeat time	S	No Repeat 🔻	message up to 3 times
Specific volu	ime		— Check this box to set a specific volume level
	Play Message		—— Tap to play your custom message

SpeakerHub Device Settings, Continued

"Play Tone" include a **Notification Tones** and a **Customer Source** sub-list of tones and sounds. **Customer Source** includes customer-supplied audio files. Audio file uploading is not available at the date of user guide publication (this feature will be added soon).

Additional Customer Source audio files have been factory-installed in the SpeakerHub.

Type your desired spoken message into the Message box. You can test your message by tapping the **Play Message button**. Some words may not be pronounced as desired. Phonetically spelling the word may help.

Here is an example message:

Tone: Customer Source: ARPEGGIO.MP3

Message: "Garage door one is still open"



Messages you configure here are <u>not</u> saved. This is for testing a message or sending a one-time broadcast. Configure custom messages in Scenes or Automation. See our YoLink Academy tutorials for more information! Your Hub will be awfully lonely without some devices, like smart locks, light switches, water leak sensors or sirens to interact with. Now is the time to add your devices). You already know how to do this, because you added your Hub to the app; it is the same process of scanning the QR code that is on each device. Look again at part F for a refresher.

1. For each new device, refer to the instructions in the quick start guide* packaged with each product. It directs you to download the full Installation & User Guide, using the QR code in the "QSG". Refer to the full manual, and when directed, scan the device's QR code to add it to your system.

2

The quick start guide, or QSG, is a small and basic set of instructions that are packaged with each product. The QSG is NOT intended to guide you through the entire installation and user guide process, but it is only meant to be an overview. The full manual is too large to be included, plus, while the QSGs may be printed in advance, the manuals are always kept current with the latest updates to your products and app. Please always download the full Installation Manual & User Guide, to ensure the smoothest installation. **2.** When directed in the manual, turn on your device (typically by pressing the SET button).

3. Always confirm your device is online in the app before proceeding to the next device. Refer to Figure 1, for an example of of online and offline devices.



Factory reset will erase device settings and restore it to factory default settings. Doing a factory reset will not remove the device from your account and it will not harm the device, or lose any data or require you to redo your automations, etc.

Instructions:

Hold the SET button down for 20-30 seconds, until the LED blinks. Then, release the button. (Holding the button down longer than 30 seconds will abort the factory reset operation)

Factory reset will be complete when the LED stops blinking.



Only deleting a device from the app will remove it from your account. Factory reset will not delete the device from the app. Your YoLink products are constantly being improved, with new features added. It is periodically necessary to make changes to your device's firmware. For optimal performance of your system, and to give you access to all available features for your devices, these firmware updates should be installed when they become available.

In the Detail screen of each device, at the bottom, you will see the Firmware section, as shown in the image below. A firmware update is available for your device if it says "#### ready now"

Tap in this area to start the update.

The device will update automatically, indicating progress by percentage-complete. You may use your device during the update, as the update is performed "in the background". The LED will slowly blink green during the update, and the update may continue for several minutes beyond the LED turning off.

Specifications

Controller:		Semtech® LoRa® RF Module YL09 microcontroller with 32-Bit RISC processor	
Listings:		ETL-Listing Pending	
Color:		White	
AC Input Power:		AC120V, 60Hz	
Dimensions, Imperial (L x W x D):		2.99 x 2.99 x 0.98 inches	
Dimensions, Metric (L x W x D):		76 x 76 x 25 mm	
Operating T	emperature		
	Fahrenheit: Celsius:	-22°F – 113°F -30°C – 45°C	

Specifications, Continued

Operating Humidity Range:

<95% Non-Condensing

Application Environments: Indoor, Only



Malfunction:

Hub is offline

Possible solution:

- 1. Check the LED behavior on the hub. If the LED blinks green, blue, and red alternately, the hub is in ATE mode. Repower the hub without pressing and holding the SET button during the process.
- 2. If the green LED is dimly blinking, try using another USB adapter and USB cable. Do not plug the USB cable into a USB extension cable, as it may reduce the power supply, causing the hub to malfunction.
- 3. If the LED blinks green only, use the hotspot configuration method as instructed by the app. If you encounter a "Connect to device timeout" error, tap Close, pull down the notification panel on your phone, and select the notification about no internet access. Tap "Yes" to stay connected to the hotspot and continue.

If you're using a mesh network, search for a solution to temporarily disable the 5GHz band on your router forum or contact YoLink with your router brand and model for assistance. Temporarily disabling 5GHz will not disconnect your other devices.

If the issue still occurs, please contact YoLink Customer Support.

U Warnings

- Power the Hub with the provided adapter, only
- The hub is designed and intended for indoor use and is not waterproof. Install indoors, avoiding subjecting the Hub to water or damp conditions
- Do not install the hub inside or near metals, ferromagnetism or any other environment which may interface with the signal
- Do not install the Hub near flames/fire or expose to high temperatures
- Please do not use strong chemicals or cleaning agents to clean the hub. Please use a clean, dry cloth to wipe the hub to avoid dust and other foreign elements entering the Hub and affecting the operation of the Hub

Avoid allowing the hub to be exposed to
strong impacts or vibration, which may damage the device, causing malfunctions or failure

2 Year Limited Electrical Warranty

YoSmart Inc. warrants to the original user ("customer") of this product that it will be free from defects in materials and workmanship, under normal use, for 2 year from the date of purchase. This warranty does not apply to devices that have been improperly installed. modified, put to a use other than designed, or subjected to acts of God (such as floods, lightning, earthquakes, etc.). This warranty does not cover neglected or abused products. This warranty is limited to the repair or replacement of the device, only, at YoSmart's sole discretion. YoSmart will NOT be liable for the cost of installing, removing, nor reinstalling this product, nor direct, indirect, or consequential damages to persons or property resulting from the use of this product. This warranty only covers the cost of replacement parts or replacement units, it does not cover shipping & handling fees. The customer must provide proof of purchase, in the form of the original purchase invoice or order number. The purchase must have been made from an authorized seller.

To implement this warranty please contact us by one of the methods listed on the Contact Us page of this user guide. 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.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

PRODUCT NAME: SPEAKERHUB

PARTY: YOSMART, INC.

TELEPHONE: 831-292-4831

MODEL NUMBER: YS1604-UC

ADDRESS: 25172 ARCTIC OCEAN DRIVE, SUITE 106 LAKE FOREST, CA 92630 USA

EMAIL: SERVICE@YOSMART.COM The host manufacturer has the responsibility that the host device should be compliance with all essential requirement of RER. This restriction will be applied in all member states. The simplified UK declaration of conformity referred shall be provided as follows: Hereby. YoSmart Inc. declare that the radio equipment type YoLink SpeakerHub is in compliance with Directive UK Radio Equipment Regulations (SI 2017/1206); UK Electrical Equipment (Safety) Regulation (SI 2016/1101); and UK Electromagnetic Compatibility Regulations (SI 2016/1091).

- English:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

To maintain compliance with RSS-102 RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

- French:

Le présentappareilestconf orme aux CNR d' Industrie Canada applicables aux appareils radio exempts de licence. L'exploitationestautorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l' utilisateur de l'appareildoit accepter tout brouillageradioélectriquesubi, mêmesi le brouillageest susceptible d'encompromettre le fonctionnement.

Pour être conforme aux lignes directrices d'exposition RF RSS-102, cet équipement doit être installé et exploité à une distance minimale de 20cm entre le radiateur et votre corps: n'utilisez que l'antenne fournie.



We are here for you, if you ever need any assistance installing, setting up or using a YoLink app or product!

Need help? For fastest service, please email us 24/7 at service@yosmart.com

Or call us at **831-292-4831** (US phone support hours: **Monday - Friday, 9AM to 5PM** Pacific)

You can also find additional support and ways to contact us at:

www.yosmart.com/support-and-service

Or scan the QR code:



Support Home Page

Finally, if you have any feedback or suggestions for us, please email us at feedback@yosmart.com

Thank you for trusting YoLink!

YoLink Customer Support



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