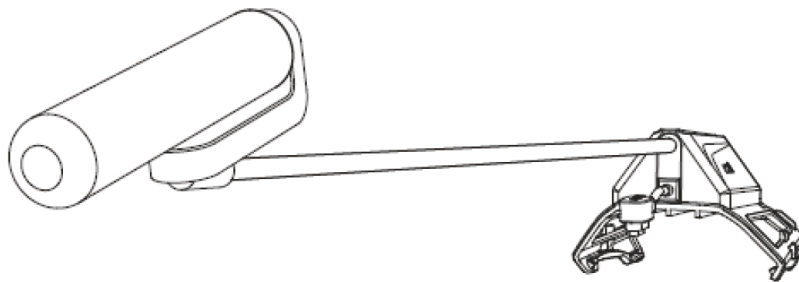


PK10

Sound pickup system

User Manual v1.0

2023.11.14



Contents

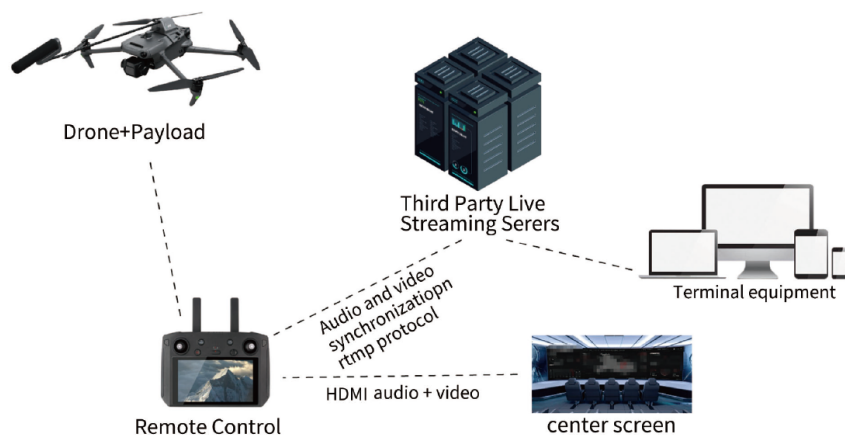
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I. Disclaimer and Warning

1. Thank you for purchasing czi products. The contents mentioned herein are related to your safety and legal rights and responsibilities. Before using this product, please read this document carefully to ensure that you have set up the product properly. Failure to follow the instructions and warnings in this document may result in injury to you and others. This document and all related documents are subject to the final interpretation of czi. Updates are subject to change without notice. Please visit the official website at www.gzczzn.com for the latest product information.
2. Please install PK10 correctly according to the manual installation tutorial.

II. Introduction to PK10

PK10 is adapted to DJI Mavic 3 Enterprise drone. Through the PSDK link, Drone Sound Pickup Microphone creates the era of drone audible aerial photography.



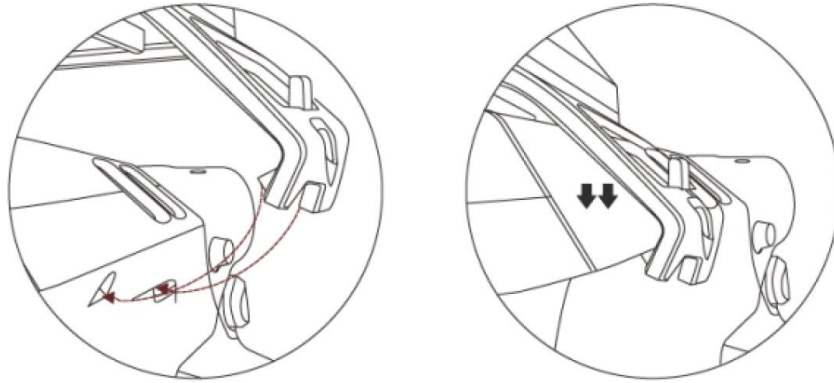
III. Specification of PK10

Weight / g	< 50 g
Dimensions/ mm	L * D * H < (450 mm * 60 mm * 60 mm)
Power / w	≤ 3 W
Link	PSDK
Charge Mode	Mavic 3 PSDK port
Operating Ambient Temperature	- 10°C – 40°C
Fixing Method	Buckle quick release
Audio Capture Condition	1.The sound pressure level transmitted to the drone is more than 5 dB of environmental noise. 2.Acquisition frequency (400 Hz – 4000 Hz)
Directivity	Microphone axis± 60
Duration Performance	Low power consumption, high endurance
Audio and video play mode	1.Remote control access to HDMI, external playback of audio and video. 2.The remote control can be pushed streaming to all major Live Broadcasting platforms such as bilibili, HUYA and Kwai etc.. 3.The bluetooth of the remote control connects theadphones and sound for external playback.

IV. PK10 Installation Tutorial

1. Aircraft bracket fixed installation

Snap the bracket of PK10 Drone Sound Pickup Microphone into the airplane buckle groove position. Installation is shown in the figure below:

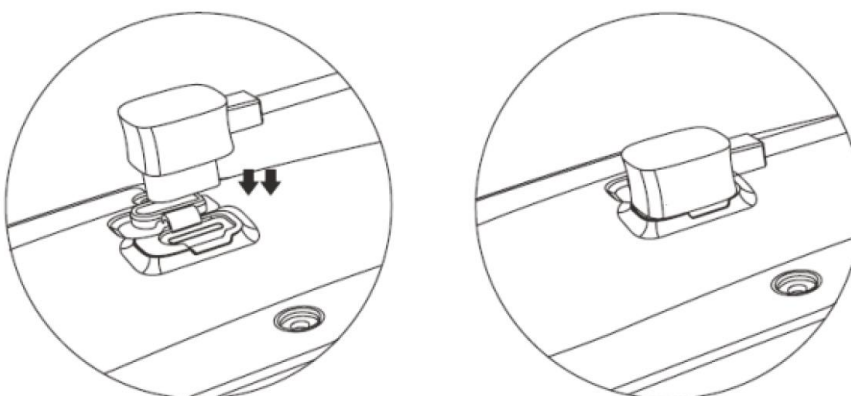




2. Plug in and unplug cable

Plug the PSDK cable from the PK10 Drone Sound PickupMicro-
phone into the drone PSDK port.

Installation is shown in the figure below:



V. czi Pilot Use Tutorial

Usage:

1. Before installing the PK10 Drone Sound Pickup Microphone, the drone is turned on and set up the joystick mode, return altitude, disconnected behavior in the DJI Pilot 2 software of DJI remote control; refresh the return point (Sougouxing); turn off the forward-looking obstacle avoidance. (Forward-looking obstacle avoidance on will not be able to fly, please safe to fly after turning off the forward-looking obstacle avoidance)
2. Install the PK10 Drone Sound Pickup Microphone according to the installation instructions. The indicator light of PK10 Drone Sound Pickup Microphone changes from flashing to normally on, which means the connection is successful.
3. Slide the remote control upward from the bottom of the screen, close the DJI Pilot 2 software, and then use the czi Pilot software (download the latest version from the official website of czi Pilot) to control the product. Note: Due to the design of DJI remote control, DJI Pilot 2 and MSDK software cannot be used at the same time, so please make sure that DJI Pilot 2 is not running in the background when using czi Pilot software.

4. Click <Enter Device> button to enter the control interface, if the device has not been activated, please follow the prompts to activate, if the device has been activated, you can skip this step.

CZi



PK10

● DJI MAVIC_3 ENTERPRISE

[进入设备>>](#)



device not activated

activate the device, start service

ok



activate the device

*name

phone
*number/
E-mail

*code

send code

unit
name optional

activate



device activation success!

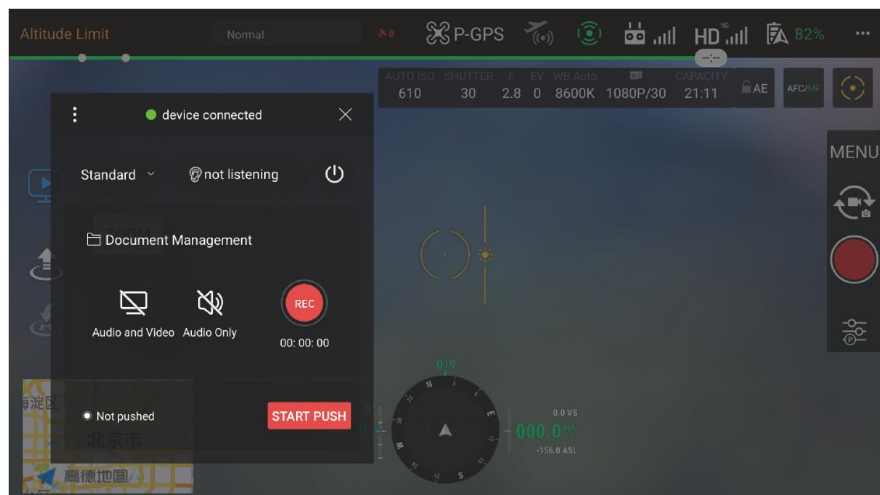
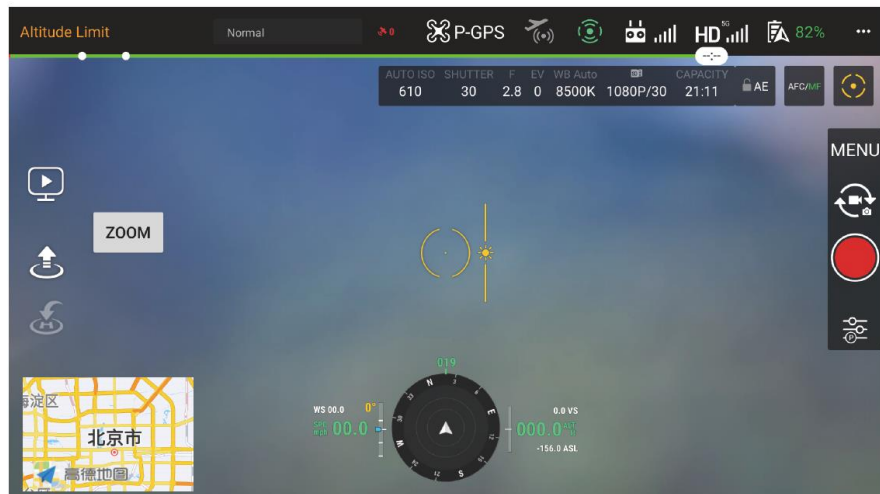
ok

5. Control Button Introduction

	Control Panel Buttons	Click it to pop up the control interface
	Device Information Display	Click the control panel button to display the serial number, activation information, version information and worry-free status of the device.
	Noise Reduction Mode Selection	You can control PK10 to switch different noise reduction modes. Noise Reduction Mode Selection 1) Standard Noise Reduction: Provide standard noise reduction to the surrounding environment. 2) Deep Noise Reduction: Provide deep noise reduction to the surrounding environment.
	Monitor Function	After clicking the monitor function, the remote control can real-time play the audio data captured by PK10.
	Audio / Video Recording Switch	Turn on this switch, the audio and video will be recorded after the recording starts.
	Audio Record Switch	Turn on this switch, the audio will be recorded after the recording starts.
	Audio / Video / Audio Recording	Recording on and off switch
	File Management	The generated mp4 files and mp3 files will be displayed in the file management interface, and can be previewed, played and deleted.
	rtmp Push Streaming Function	After setting the rtmp live address in the push streaming setting interface, you can start rtmp push streaming, and the push streaming panel will show the current uplink network speed, push streaming real-time code rate and other data. If you turn on the monitoring function, the sound data captured by PK10 will be pushed streaming to the streaming media server in real time.

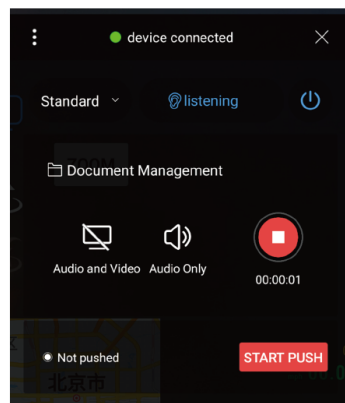
6. Sound Pickup Microphone Functions

Click the button  on the main screen to open the PK10's control panel, which provides access to the noise Reduction Mode Selection, Start Monitoring, Audio / Video and Audio Recording, and Start Push Streaming functions.

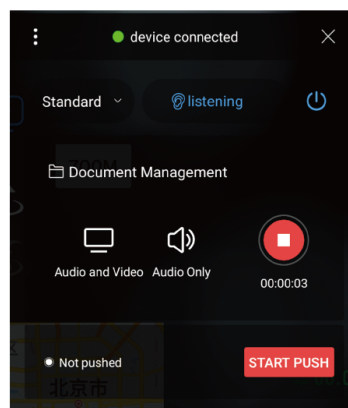


7. Recording

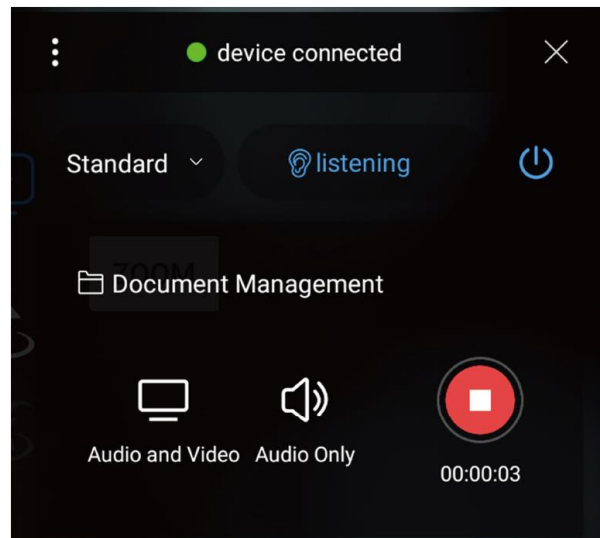
7.1 Store audio / video, click the audio / video “on” option only, click REC, end and then click REC at the end.(Note: The video recorded by the remote control screen displaying the image transfer data is not the video recorded by the camera, and there is a difference in picture quality. If you need the original picture quality video recorded by the camera, please use the Camera Video Record button to record, and take out the video file from the SD card in the drone after the recording is finished, this video is no sound.)



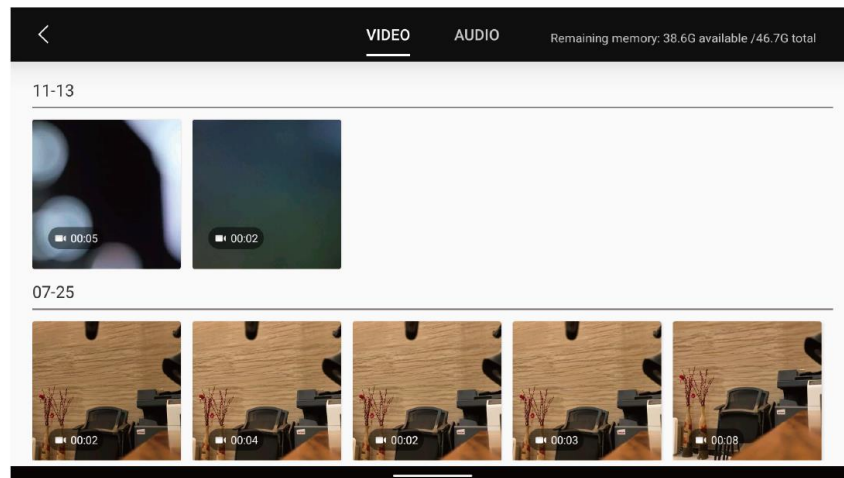
7.2 Store audio-only, click the audio-only “on” option, click REC, and then click REC at the end.

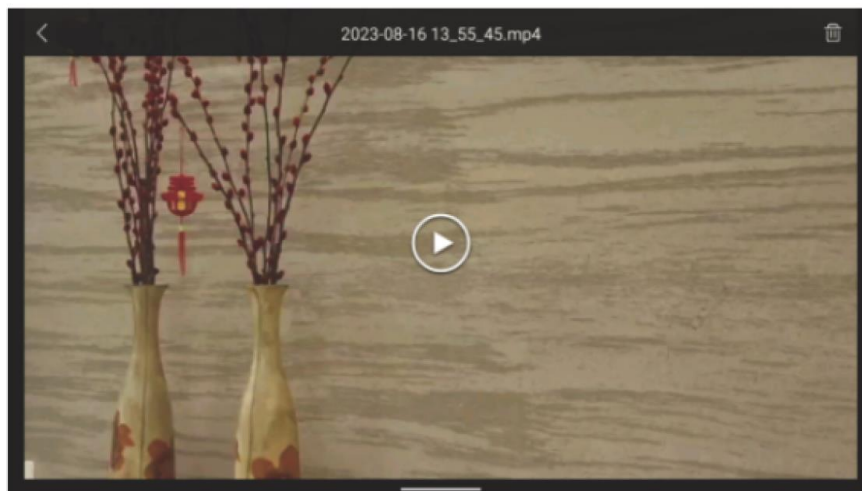
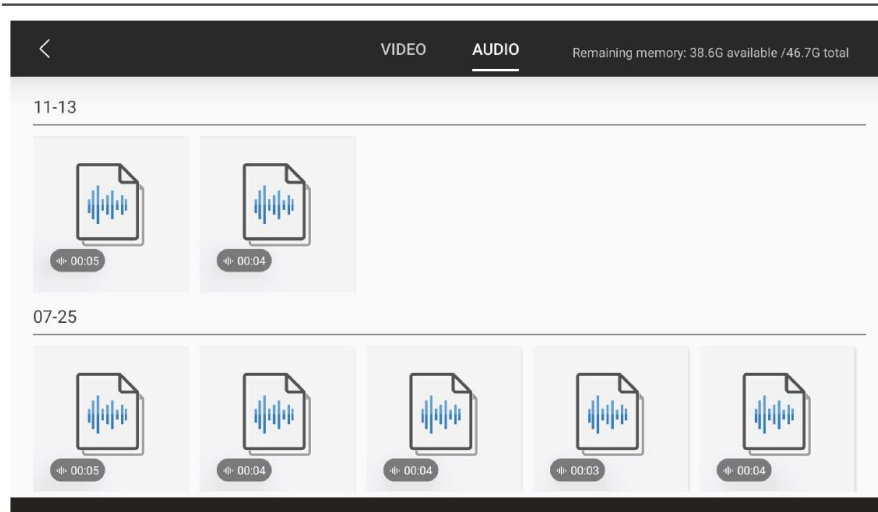


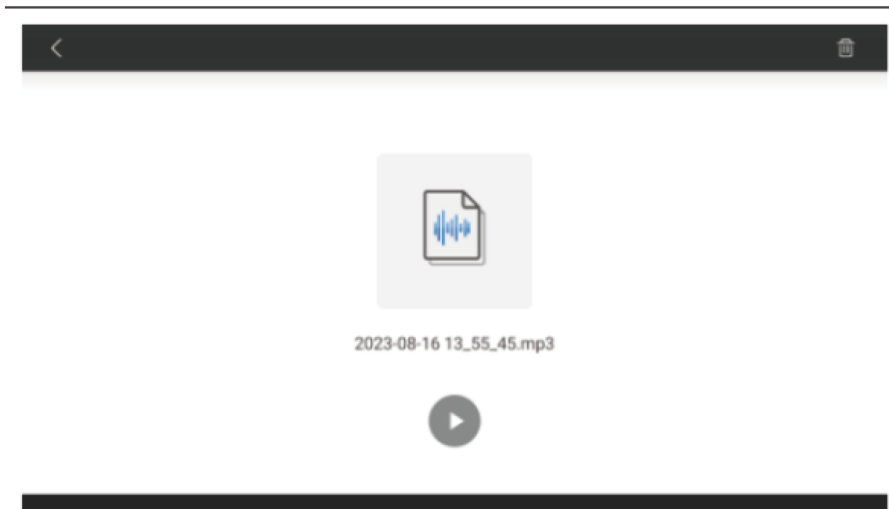
7.3 Store audio / video and audio-only, click the audio/video and audio-only “on” option, click REC, and then click REC at the end.



8. Click File Management to enter the management interface of recording files, you can browse, delete, and play the files.

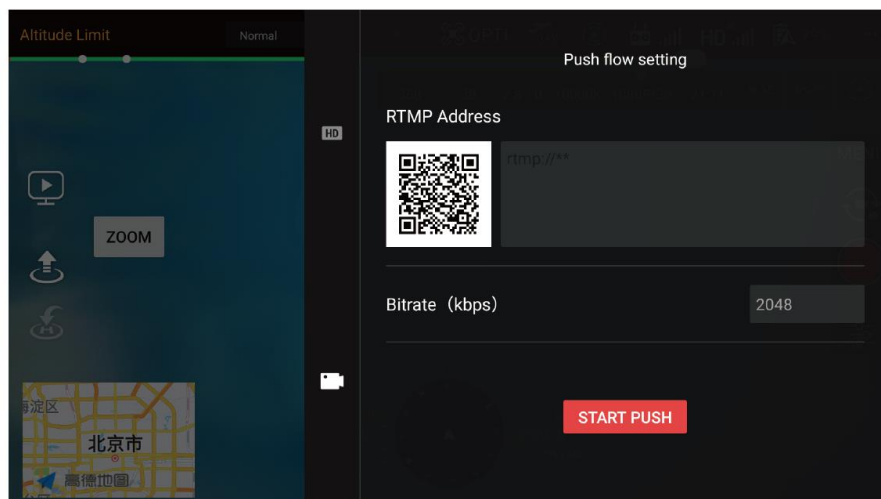
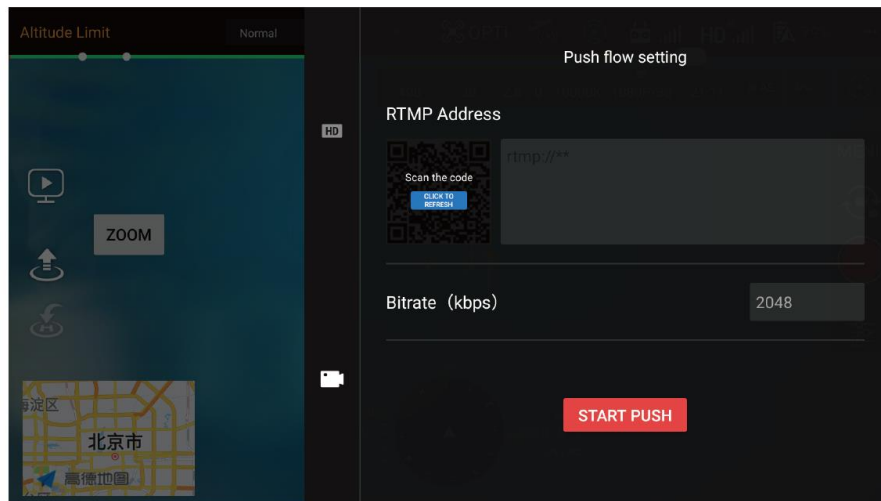






9. If you need to perform network live broadcast function, please click the icon in the upper right corner  to enter the setup interface, set the rtmp push streaming address and code rate, if the push streaming address is too long, it is not convenient for the remote control input method to input, you can click the scan code input, use the cell phone to scan code and enter the input interface, input the address with the cell phone to the remote control. You need to connect the remote control to the network to live push streaming, recommend to use it when the network environment is good.







import: please enter content

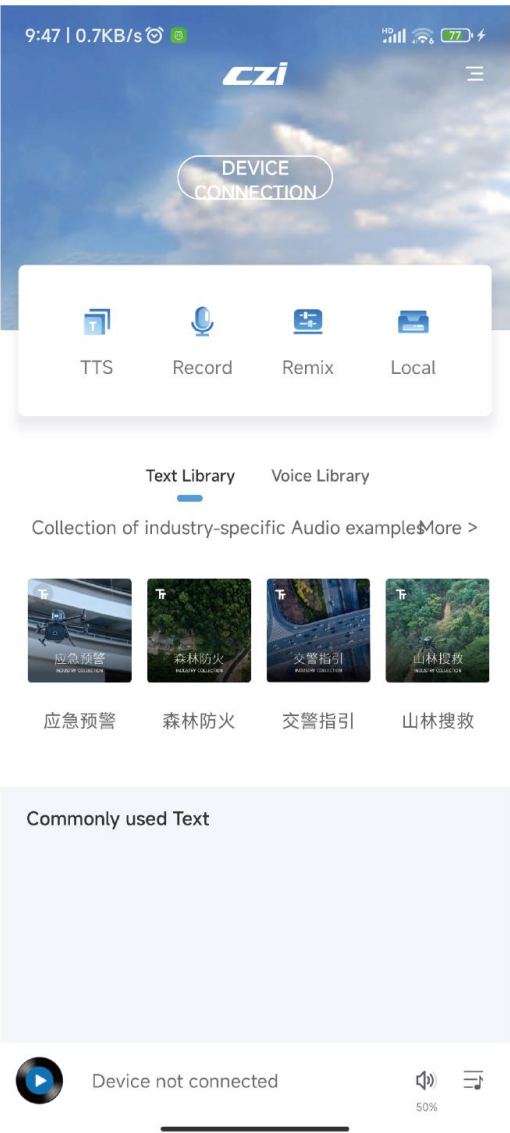
submit

VI. Firmware Upgrade

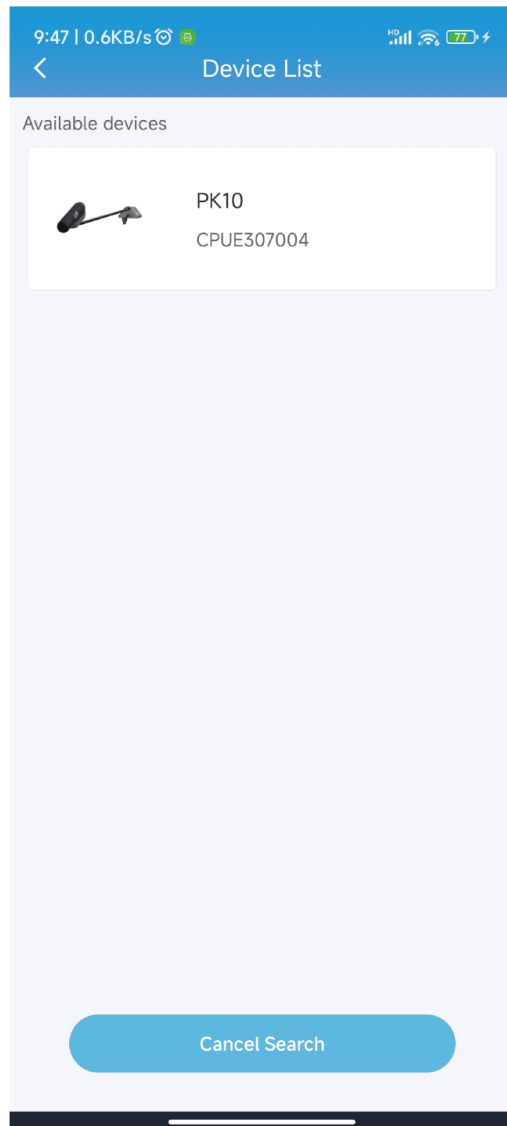
6.1 You can download the czi Sound app by scanning the code on your phone, and the czi Sound app Microphone will push the latest firmware to PK10 to upgrade.



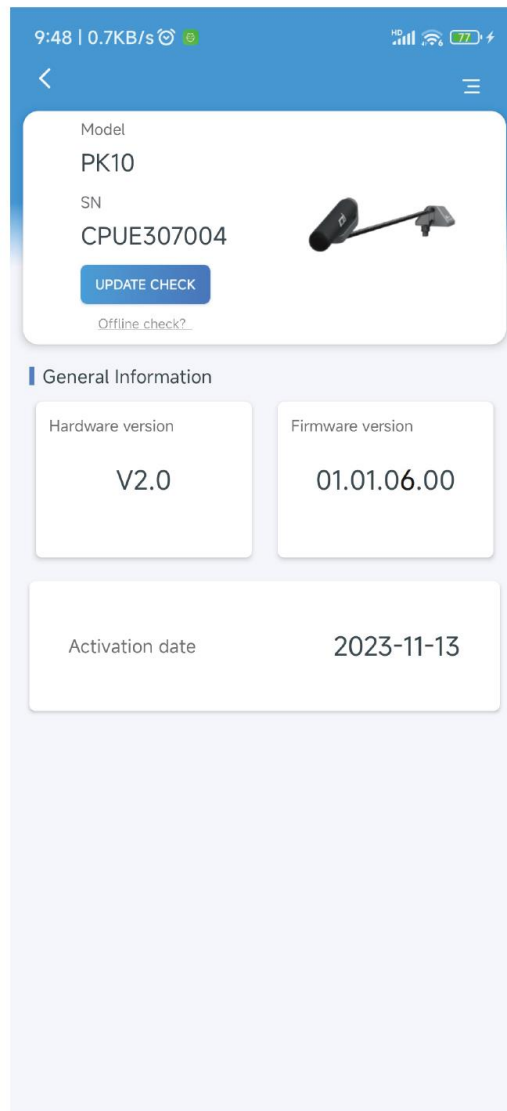
6.1.1 Enter the czi Sound APP Microphone.



6.1.2 Connect the devices.



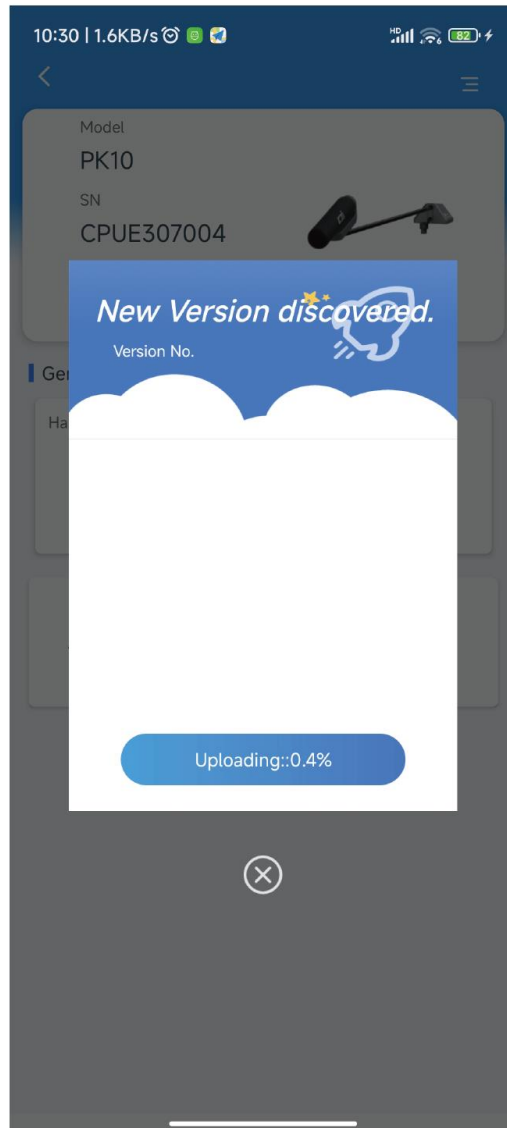
6.1.3 Click on Check for Upgrade.



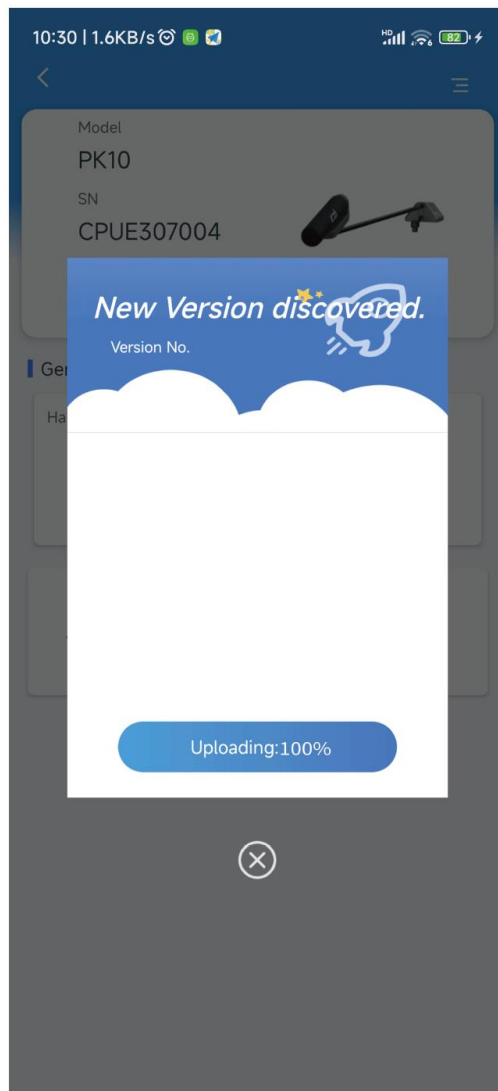
6.1.4 Select local bin file.



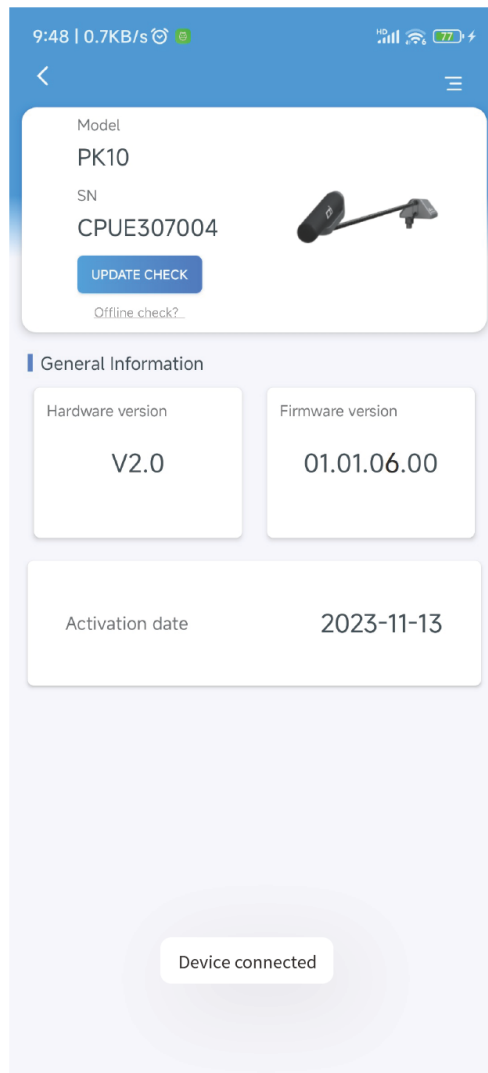
6.1.5 Waiting for upload.



6.1.6 Successful upload waiting for upgrade



6.1.7 Reconnect to check upgrade version.



FCC Statement

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.

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.

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

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

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

ChengZhi Support
ChengZhi Technical Support
www.gzczzn.com
Service Hotline: 400-008-8306

If you have any questions or suggestions regarding the manual, please contact us at:
service@gzczzn.com

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