



APR301 Card-Type Smart Voice Recorder

Product User Manual

Version	Date	Update Content
V1.0	2025.02.20	Initial release
V1.1	2025.08.06	Updated images and content

Product Description

ARP301 is a card-type smart voice recorder designed for business professionals, government personnel, corporate employees, students, etc. Utilizing proprietary low-power recording technology, it ensures the product can meet the requirement of continuous recording for a full day while maintaining an ultra-thin design.

- **Thin as a Card, Record Anytime, Anywhere**

Featuring an ultra-thin card design with a thickness of only 2.89mm, it easily fits into wallets or pockets. Perfect for business meetings, lecture notes, or capturing inspiration—efficient recording is always at hand.

- **Direct Magnetic Attachment**

Built-in magnetic module allows secure attachment to the back of mobile phones (for phones without magnetic attachment, use the included magnetic ring). Carry it with you without worry of loss.

- **Wireless Charging**

Supports wireless charging, freeing you from cables and ensuring worry-free battery life.

- **Low Power Consumption & Long Battery Life, Extended Standby**

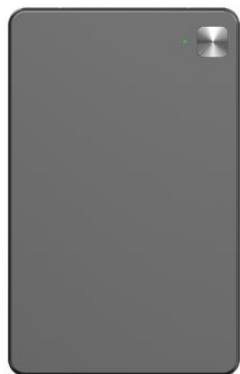
Equipped with an intelligent power-saving chip, a single charge provides up to 24 hours of continuous recording and up to 180 days of standby time. No need for frequent charging during business trips or travel—ready to wake up at crucial moments.



Product Usage Scenarios Example



Attached to Phone Back



Placed Inside ID Card



Carried in Wallet

Product Hardware Specifications

Specification	Parameter
Dimensions	85 x 53 mm
Thickness	2.89 mm
Microphone	2* Silicon Mics, 1* Bone Conduction Mic
Storage Capacity	32GB / 64GB
Connectivity	Bluetooth V5.3 + Dual-band WIFI (2.4GHz & 5GHz)
Transmission Speed	Bluetooth > 60Kbps, WIFI > 20Mbps
Touch Button	Long press 1s to start/stop recording; short press to wake/mark
Charging Method	Wireless Charging + Wired Charging
Battery	130 mAh
Recording Distance	Recommended 1 to 3 meters, up to 10m
Recording Duration	24 hours
Standby Duration	180 days
Charging Time	90 minutes

Product Software Features

Feature	Escription
Dual-Mic Recording & Storage	Microphone recording stores audio within the device.
Bluetooth Real-Time Audio Transmission	Microphone recording transmits audio to the mobile app via Bluetooth in real time.
Bluetooth Audio Transmission	Transfers stored audio from the device to the app via Bluetooth.
WIFI Fast Audio Transfer	Transfers stored audio from the device to the app via WIFI.
Battery Level Detection	Detects battery level, displays low battery via indicator, and transmits battery info to the app.
Real-Time Time Synchronization	Automatically syncs system time when connected via Bluetooth or WIFI.
Dual-Layer VAD Detection	In recording mode, supports automatic sleep when no sound is detected and automatic recording when sound is detected.
Recording Mode Selection	Supports selection between normal recording and phone call recording.

Android & IOS App

Feature	Description
Speech-to-Text	Converts audio to text using a large language model.
Real-Time Speech-to-Text	Receives audio from the device via Bluetooth in real time and converts it to text using a large language model.
WIFI Fast Audio Transfer	Receives stored audio from the device via WIFI.
Bluetooth Audio Transfer	Receives stored audio from the device via Bluetooth.
Audio Playback	Plays recorded audio files on the mobile phone.
Large Model Services	Supports ChatGPT and Doubao.
Speaker Differentiation	Supports differentiation of 3-5 speakers in a conversation.
Summary Templates	Universal, Meeting, Consultation, Call, Speech, Explanation; can generate corresponding mind maps.

Usage Instructions



Category	Scenario	Description
Power On / Pairing LED Status	Waiting for App Pairing	White light on and flashing. If not paired, turns off after 30 seconds
	App Pairing Successful, Battery < 10%	Red light stays on for 5 seconds, then turns off.
	App Pairing Successful, Battery ≥ 10%	White light stays on for 5 seconds, then turns off.
Charging LED Status (Magnetic or Wireless)	Charging	Red light stays on
	90% ≤ Battery < 100%	Yellow light stays on
	Fully Charged	Green light stays on
Recording LED Status	Recording Start	Blue light stays on
	Recording Stop	Light turns off
Charging + Recording LED Status (Magnetic or Wireless)	Recording Start	Consistent with recording status indication
	Recording Stop	Consistent with charging status indication
Touch Button	Short Press	Wake up (can power on from off state)
	Short Press	Mark important moment (during recording)
	Long Press 12 seconds	System anomaly recovery
	Long Press 1 second	Motor vibrates once, then starts recording (can start recording from off state).
	Long Press 1 second again	Stops recording first, then motor vibrates twice
Storage	Storage Full	Yellow light flashes
Auto Sleep	Not recording, not transferring files	Automatically sleeps while maintaining Bluetooth connection (click touch button to wake)
Auto Power Off	No recording or file transfer for 30 minutes	Times out and automatically powers off (click touch button to wake)

Standards & Compliance Requirements

Standard	Specification
Design Life	>3 years
ESD	Contact ±4KV, Air ±8KV
Certifications	FCC, CE, SRRC, etc.
Battery	3C, UN38.3, etc.

Disclaimer

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1.What should I do if I discover potential safety hazards in my product?

Please contact us immediately via email and we will process your report promptly.

Email:huangshuangbang@ailyworld.cn

2. How do I check for software updates on my product?

The device supports OTA updates via NebulaRec. Please follow the steps below to perform the update:

- (1) Open NebulaRec, tap the connected device in the upper right corner, and enter the device details page.
- (2) When a new version is available, a red dot will appear at [General - Firmware Update] as a reminder.
- (3) Tap [Firmware Update], confirm the update, and wait for the process to complete.

Warning message

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.

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

This device has been tested and meets the RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal and that positions the device a minimum of 0mm from the body. Noncompliance with the above restrictions may result in violation of RF exposure guidelines.