

VIOLOOP

Violoop Microcomputer X (Violoop X)

User Manual

Model: VAL11

*In-Box Printed Edition / Document Version V1.0 /
Pending Release Approval*





Read Before Use

Thank you for choosing Violoop. Violoop is a personal PC operator device designed for use with a computer. Its on-device multimodal model analyzes content displayed on the computer screen, understands the task context, and prepares the next action. It can carry out routine actions as part of a task workflow. Before carrying out a high-risk action or an action with irreversible consequences, Violoop prompts you to approve it using the physical confirmation button.

IMPORTANT SAFETY INFORMATION: Read this manual in full before connecting or using the device. An incorrect power supply, improper connection, or improper operation may cause device damage, data loss, personal injury, or property damage.

How Violoop Works

- **Local processing:** Original screen images are read and analyzed locally on the Violoop device. They are not continuously uploaded to the cloud as a video stream.
- **On-demand cloud access:** Cloud-based models are used for complex tasks only after you actively select or authorize cloud access. Cloud access is disabled by default.
- **Confirmation of high-risk actions:** Violoop requests approval through the physical confirmation button before actions that involve accessing personal information, making a payment, deleting or overwriting data, submitting information, sending content, or producing other irreversible results.
- **Local memory:** Long-term memory is stored locally on the Violoop device. You can view, edit, export, disable, or delete this memory in the Violoop app.

Before pressing the confirmation button, verify the intended target, content, account, amount, and possible consequences. Select Cancel if any information is incorrect, the source is unknown, or you do not intend to approve an irreversible result.

Package Contents

Item	Quantity	Description
Violoop X main unit	1	Model: VAL11
Power adapter with DC power cable	1 set	Input: 100 – 240 V AC, 50/60 Hz, 1.2 A; Output: 12 V DC, 3 A
USB-C to USB-C data cable	1	For screen-data transfer and keyboard/mouse control
User manual	1	This document

An HDMI cable is not included. Package contents may vary by sales region or production batch. Refer to the contents listed on the product packaging.



Getting to Know Violoop



Component/Port	Function
Physical confirmation button	Approves the pending high-risk or irreversible action.
OLED status display	Shows connection, operation, pending-confirmation, and error status.

DC power port	Connects to the supplied 12 V DC, 3 A power adapter. Connector dimensions: 5.5 mm outer diameter and 2.5 mm inner diameter.
USB-C data port	Connects to a full-featured USB-C port on a computer, receives screen data, and enables the computer to recognize Violoop as a standard keyboard and mouse.
HDMI video input	Receives the computer's screen signal when the computer does not have a full-featured USB-C port. Follow the instructions in the app and the approved connection diagram.

Getting Started

What You'll Need

- A computer with a full-featured USB-C port. If the computer does not have a full-featured USB-C port, use the HDMI connection option.
- An iOS or Android phone that can run the Violoop app.
- An available 2.4 GHz or 5 GHz Wi-Fi network.
- A Violoop Token Service account or an API key for a supported AI model service.

Step 1: Connect the Device

1. Connect the supplied power adapter to the DC power port on Violoop, and then connect the adapter to a compatible AC power outlet. Violoop

turns on automatically when power is connected; it does not have a separate power switch.

2. For the preferred connection method, use the supplied USB-C to USB-C data cable to connect a full-featured USB-C port on the computer to the USB-C data port on Violoop.
3. If the computer does not have a full-featured USB-C port, follow the instructions in the Violoop app to use the HDMI connection option. An HDMI cable is required and must be purchased separately.
4. Wait until the OLED display or status indicator shows that the device is connected or in pairing mode.

Use only the supplied power adapter or an adapter that provides 12 V DC, 3 A, has the correct polarity, and complies with applicable safety standards. An incompatible or poor-quality adapter may cause overheating, device damage, or fire.

Step 2: Install the Violoop App

5. Search for "Violoop" in your phone's app store, or scan the QR code below to download and install the app.
6. Open the app, and then create or sign in to your Violoop account.
7. Follow the instructions in the app to add the device, pair it, and configure Wi-Fi.

Step 3: Select an AI Model Service

- **Violoop Token Service:** After signing in to your Violoop account, you can use the free allowance or a Personal, Work, or Enterprise subscription plan, as displayed in the app.
- **BYOK:** Enter an API key for a supported AI model service. The API key is encrypted and stored on the device; the Violoop team cannot access it in plaintext. With BYOK, the client sends requests directly to the selected model service provider without routing them through Violoop servers.

Supported services include Anthropic Claude and DeepSeek. Available services, model versions, fees, and regional restrictions are shown in the Violoop app. As of document version V1.0, OpenAI and Google Gemini are not supported. [VERIFY BEFORE RELEASE]

Using Violoop

Normal Operations

Based on the current screen and task, Violoop can prepare text, complete fields, switch between windows, and perform multi-step actions. Routine actions may not require physical confirmation at every step. Always monitor the execution status on the computer screen, the OLED display, and in the Violoop app.

Operations Requiring Physical Confirmation

- Accessing or processing sensitive information, including personal information, account information, or customer data;
- Making payments, transferring funds, placing orders, or performing other financial transactions;
- Sending messages, submitting forms, publishing content, or making commitments on your behalf;
- Deleting, overwriting, or moving important files, or making other irreversible changes;
- Other actions that the system identifies as high risk or potentially significant.

Approve or Cancel

8. Review the action, its target, and its possible consequences on the Violoop display or in the app.
9. If all details are correct, press the physical confirmation button on the device to approve the action.
10. To reject the action, select Cancel on the Violoop display or in the app.

The physical confirmation button does not pause a task. To pause or stop a task, use the applicable control on the Violoop display or in the app. Control names may vary by app version.

Common Use Cases

Use Case	What Violoop Can Prepare	Check Before Approval
Email and Customer Communication	Read context, draft replies, and identify action items	Facts, tone, recipients, and the send action
Spreadsheets and Data Entry	Extract fields from PDFs, webpages, or systems and enter the data	Values, units, and target cells
Content Creation and Publishing	Organize source material, generate titles, and prepare publishing steps	Brand voice, platform, and the publish action

Scheduling and Meetings	Organize times, participants, reminders, and meeting summaries	Time, time zone, participants, and the invitation send action
Internal Systems	Prepare clicks, text input, or keyboard shortcuts based on the interface	Permissions, target controls, and irreversible actions

Recommended First Task

Start with a low-risk task whose result is easy to verify, such as drafting an email, extracting information from an invoice, summarizing a webpage, or organizing meeting notes. After you become familiar with the review and confirmation process, gradually progress to cross-application or higher-impact tasks.

Privacy, Data, and Personal Memory

Screen Content Processing

- Original screen images are read and analyzed locally on the device. They are not continuously uploaded as a screen video stream.
- Cloud services are used for complex tasks only after you actively select or authorize them. Cloud access is disabled by default.
- When cloud access is required, only content necessary to complete the current task is uploaded. Processing by a third-party model service is also governed by that provider's terms and privacy policy.

Before processing passwords, verification codes, identity documents, payment-card information, medical information, trade secrets, or

another person's personal information, ensure that you have a lawful and necessary basis for doing so. Mask or close any unrelated sensitive content whenever possible.

Personal Memory

Long-term memory is stored locally on the Violoop device. In the app, you can view or edit memories, delete individual memories, clear or export all memories, or disable the memory feature.

Audit Log

The audit log records relevant actions that you have approved and is protected by a dedicated security chip and local device storage. By default, log entries remain on the device until you delete them, perform a factory reset, or otherwise erase device data. You can view, export, and delete the audit log in the app.

Before Transfer, Repair, or Return

11. Export any personal memories and audit logs that you want to retain.
12. Unlink the device from your account in the app.
13. Delete all API keys, personal memories, and audit logs.
14. Perform a factory reset, and confirm that the device no longer contains or displays your personal data.

System Compatibility and Display

Item	Current Support Status
Windows	Windows 10 or later
macOS	macOS 15 or later; earlier versions have not been tested
Linux	Intended to support mainstream distributions released within the past two years; broad compatibility testing has not been completed
HarmonyOS	Not currently supported
Video Input	Up to 4K at 60 Hz. Available resolution depends on the computer port, cable, and display settings.

Compatibility may change with firmware and app updates. For the latest supported-system list, known limitations, and connection requirements, visit violoop.ai or refer to the Violoop app.

Troubleshooting

Issue	Recommended Action
Device does not respond	Check the AC outlet, power adapter, and DC power connection. Reconnect power and wait for the device to start.
Screen content is not detected	Confirm that the computer's USB-C port supports video and data, and then reconnect the cable. If it is not a full-featured USB-C port, follow the instructions in the app to use the HDMI connection option.
Computer does not recognize the keyboard/mouse device	Reconnect the USB-C data cable, try another computer port, and confirm that the cable supports data transfer.
Wi-Fi setup fails	Check the Wi-Fi password and frequency band, move Violoop closer to the router, restart the device, and repeat the pairing process.
Suggestion is inaccurate	Reduce the scope of the task and specify the target, fields, and output format. Start with a low-risk task in a single window.

API key error	Confirm that the API key is valid, the account has sufficient quota, and the model service is available. Delete the key and enter it again.
Task must be stopped immediately	Select Cancel or Stop on the Violoop display or in the app. If necessary, disconnect the USB-C data cable.

Factory Reset

In the Violoop app, open the device settings and select Factory Reset. The exact menu name may vary by app version. A factory reset unlinks the device and erases its configuration, API keys, personal memories, and audit logs. This data generally cannot be recovered. Export any data that you want to retain before starting the reset.

Safety and Maintenance

Operating Environment

- Use the device only indoors in a dry, well-ventilated location.
Operating temperature: 0 - 40 ° C (32 - 104 ° F). Operating relative humidity: 10% - 80%, non-condensing.
- Do not block the ventilation openings. Do not place the device on bedding or a sofa, in direct sunlight, or near another heat source.
- Do not allow liquids, metal fragments, or other foreign objects to enter any port or opening. Do not use the device during thunderstorms or in damp locations or environments containing corrosive gases.
- If the device or power adapter is dropped, exposed to liquid, or damaged, stop using it and contact Violoop Support.

Power Supply and Cables

- Do not connect or disconnect the power adapter with wet hands. Do not pull, crush, sharply bend, damage, or modify any cable.
- If you notice excessive heat, an unusual odor or sound, discoloration, or smoke, disconnect the power immediately and stop using the device.
- The device turns on and off when the power adapter is connected and disconnected. If the device will not be used for an extended period, disconnect the power and store the device properly.

Cleaning and Repair

- Disconnect the power adapter and all cables before cleaning. Wipe the device with a soft, dry or slightly damp, lint-free cloth.
- Do not apply sprays, alcohol, solvents, or abrasive cleaning products directly to the device.
- Do not disassemble or attempt to repair the device or power adapter. They contain no user-serviceable parts.

Technical Specifications

Item	Specification
Product name	Violoop Microcomputer X (Violoop X)
Model	VAL11
Rated input	12 V DC, 3 A
Rated power	[PENDING CONFIRMATION — DO NOT PRINT A VALUE] Source materials conflict: one lists 36 W, while another states that maximum operating power does not exceed 30 W. Confirm and publish one verified value before mass production.
Power connector	DC barrel connector; 5.5 mm outer diameter, 2.5 mm inner diameter
Power-adapter input	100 – 240 V AC, 50/60 Hz, 1.2 A
Power-adapter output	12 V DC, 3 A

AI processing performance	26 TOPS; on-device multimodal model
Wireless connectivity	Wi-Fi 6 (2.4 GHz and 5 GHz; IEEE 802.11a/b/g/n/ac/ax); Bluetooth 5.4
Maximum video-input resolution	4K at 60 Hz
Operating temperature	0 - 40 ° C (32 - 104 ° F)
Storage temperature	-20 - 45 ° C (-4 - 113 ° F)
Operating relative humidity	10% - 80%, non-condensing
Dimensions	89.3 × 93.1 × 86.2 mm
Net weight	Approx. 350 g

Specifications may vary by product version or regional requirements.
 [PRE-PUBLICATION CHECK: Verify all specifications against the final rating label, certification reports, bill of materials (BOM), and controlled product specification before mass production or printing.]

Compliance and Certification Status

Product certification activities for China and international markets are in progress. As of the preparation date of this manual, the certifications listed below have not been completed. This manual therefore makes no claim that the product has obtained any certification and does not display any certification mark that has not been approved for use.

Target market	Planned compliance activities	Status
China	CCC, SRRC, China RoHS, Quality Inspection Report (CMA/CNAS), etc.	In progress/planned — not completed
USA	FCC ID, DOE energy efficiency, California CEC, Proposition 65, etc.	Planned — not completed
Europe	CE RED, LVD, EMC, EN 18031, RoHS, ErP, WEEE, etc.	In progress/planned — not completed
United Kingdom	UKCA, etc.	Planned — not completed
Australia	SAA, RCM, GEMS, etc.	Planned — not completed
Canada	ISED/IC, energy-efficiency and safety certification, etc.	Planned — not completed

IMPORTANT: The table above is for certification planning only. It is not evidence of certification and does not replace a final certificate.

declaration of conformity, or market-specific regulatory assessment. The production manual may display only certification marks and identification numbers that have been formally approved for the applicable product and market.

Service and Support

Item	Information
Manufacturer	Shenzhen Benwei Wujie Technology Co., Ltd. [VERIFY OFFICIAL ENGLISH LEGAL NAME BEFORE RELEASE]
Manufacturer address	[PENDING CONFIRMATION — INSERT THE FULL REGISTERED ADDRESS BEFORE RELEASE]
Official website	violoop.ai
Support email	[PENDING CONFIRMATION — DO NOT PRINT]
Customer-service telephone	[PENDING CONFIRMATION — COMPLETE IF APPLICABLE]

Warranty policy	Warranty service is provided in accordance with the policy published by the authorized sales channel and the mandatory laws of the market where the product is sold. Where mandatory law provides additional rights, those rights prevail.
-----------------	--

When contacting Violoop Support, provide the product model and serial number, Violoop app version, computer operating-system version, connection method, time the issue occurred, and relevant screenshots. Before submitting a screenshot, mask all passwords, verification codes, account details, personal information, and other sensitive content.

Items Required Before Print Release

- Six final product images and the official app-download QR code;
- The manufacturer's complete address, support email address, and customer-service telephone number;
- The final warranty period and after-sales-service policy;
- Approved certification marks and identification numbers, and all market-specific compliance statements;
- A single verified rated-power value, resolving the current conflict between 36 W and the statement that maximum operating power does not exceed 30 W.

ISED Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canada ICES-3 (B)/NMB-3(B).

Cet appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux RSS exemptés de licence d'innovation, sciences et développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

(1) Cet appareil ne doit pas causer d'interférences nuisibles, et

(2) Cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

L' appareil numérique est conforme au Canada ICES-3 (B)/NMB-3(B).

This device complies with exemption from the current assessment limits in section 6.6 of CNR – 102 and RSS-102 RF exposure compliance, users can obtain canadian data on RF field exposure and RF field exposure. This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum 20cm distance from a radiator or your body. This transmitter must not be co-located or operate in conjunction with any other antenna or transmitter.

Cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 6.6 du cnr-102 et conformité avec rss-102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité. This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. Cet équipement doit être installé et fonctionner à au moins 20cm de distance d'un radiateur ou de votre corps. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

Operation in the 5150-5250 MHz band is restricted to indoor use only.

Le fonctionnement dans la bande 5150–5250 MHz est limité à un usage intérieur seulement.

FCC Statement

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.

RF warning:

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.