

COMPLETE USER GUIDE

Artman Vrt

From garden setup to real-world planting

VERSION 1.10.50 | WEB, PWA AND WINDOWS DESKTOP

Plan the garden, record what was actually planted, and let the Timeline
maintain the history of your real garden.

English edition · Updated July 2026 · Document for application v1.10.50

ARTMAN · artman.si

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Quick start in five steps

- 1. Create a configuration** Choose Guided or Manual and give it a name (Chapters 4–6).
- 2. Set up the garden** Add the ground garden, beds, raised beds or pots (Chapters 5–6).
- 3. Plan what and how much** Enter crop targets — no location needed yet (Chapter 8).
- 4. Record what you planted** Add the real planting with date and location (Chapter 9).
- 5. Let the Timeline track it** Review status, watering and care through the season (Chapters 10–12).

Fastest route for a new user Read Chapters 1, 4, 5, 8 and 9 first. They cover the core path from a new garden to a correctly recorded planting.

Conventions used in this manual

Convention	Meaning
Button or tab name	The exact control to select in the application.
Plan	Your intention: crop, target quantity and intended date. No location is required.
Actual planting	A real event with crop, quantity, date and specific location.
Note	Useful behaviour or background information.
Warning	A step that can change, replace or remove stored information.

1. About Artman Vrt

Artman Vrt is a local-first garden planning and record-keeping application. It combines physical garden configuration, crop planning, planting records, calendars, watering and care guidance, harvest records, and a location-aware Digital Twin of the garden.

The two-record principle

Core rule A **plan** is an intention. A **Timeline event** is evidence of work that actually happened. Keeping these records separate prevents a planned crop from being mistaken for a planted crop.

Record	What it answers	Location?	Example
Plan	What and how much do I intend to plant?	Not required	6 tomatoes, intended for today
Planting event	What did I really plant, when and where?	Required	4 tomatoes, 18 July, Ground bed 2
Timeline status	What is growing now and what happened later?	Retained	2 failed, 2 replaced, 4 growing

This design means you do not need a paper note between planning and planting. If only part of the plan is planted, the application records the completed part and keeps the remainder visible for the next visit to the garden.

What the application can manage

- Ground gardens divided into beds, raised beds, pots and planters.
- Guided or manual setup, with several named and dated configurations.
- Crop targets, actual planting, failures, replacements, supplementary planting, successive planting and harvests.
- Plant spacing, density, capacity, companion relationships and location warnings.
- Calendar, watering estimates, fertilising guidance, quantities, care tasks, reminders and a garden diary.
- 2D garden design, a view-only 3D preview, crop rotation, irrigation zones, smart placement and yield-needs planning.
- Local restore points, JSON backups, printed/PDF reports and an annual Digital Twin report.

What it does not replace

Artman Vrt provides planning estimates and practical guidance. It does not replace local weather forecasts, soil testing, seed-packet instructions, pesticide labels, or professional advice about plant disease, food safety, irrigation engineering or accessibility.

2. Installation, first launch and language

Web and PWA edition

1. Open the application URL in a current browser.
2. For app-like use, choose the browser command **Install app** or **Add to Home Screen**.
3. Open the application once while online so the PWA can cache its required files. After that, the core application can work offline.
4. Do not clear site data unless you have exported a backup; local garden data is stored with the site.

Web Update Center (web/PWA)

The web and PWA edition includes a Web Update Center (from version 1.10.50). A browser or an installed PWA can keep a previously cached copy of the application, so the Web Update Center records which version is running and compares it with the latest published version.

When a newer version is available, the Web Update Center lets you move to it without manually clearing browser data, and it can repair the offline cache if an update did not apply cleanly. This is the built-in way to leave an older cached copy behind and is the recommended first step whenever the header still shows an earlier version after a deployment.

Version check The application header shows the running version. If it does not match the version you deployed or expected, open the Web Update Center and refresh to the current version. In most cases this replaces manually clearing browser data or unregistering the service worker (see Chapter 16).

Windows desktop edition

Package	Recommended use
.exe (NSIS)	Recommended for most individual Windows users.
.msi (WIX)	Suitable for managed or business installations.

The desktop edition uses Microsoft WebView2 through Tauri. A separate Chromium installation is not required. If WebView2 is absent, the installer can obtain its bootstrapper.

Desktop updates

The Windows desktop edition can use the built-in updater when a compatible signed update is published. Before a major update, export a current backup. When an update is offered, review the

version, download it and allow the application to restart. If automatic updating cannot be completed, download the current installer from the official Artman resources page.

Installer continuity Users who installed the NSIS EXE should normally continue with the EXE release. MSI packages are intended primarily for managed or organisational deployment.

Windows security notice

Download safely Download Artman Vrt only from the official artman.si website. If the installer is not yet Authenticode code-signed, Windows may display “Unknown publisher” or a Microsoft Defender SmartScreen warning. Verify the official source and compare the SHA-256 checksum. Do not disable SmartScreen or antivirus protection.

The updater .sig file protects automatic updates inside Artman Vrt. It does not replace Windows Authenticode publisher signing.

First launch

1. Choose the interface language in the top-right language selector: Slovenian, English, Materni, or Albanian. Materni is a shared interface version intended for users of Croatian, Serbian, Bosnian and Montenegrin, whose standard forms are closely related.
2. Choose whether to continue a saved configuration or create a new **Guided** or **Manual** configuration.
3. Give the configuration a meaningful name, for example “Home garden 2026” or “Balcony herbs”.
4. Complete the garden setup, then choose **Continue to planning** or **Continue to planting**.

Autosave The application saves the active garden locally as you work. Autosave is convenient, but it is not a substitute for exporting a backup.

3. Interface tour

The interface has four practical layers. Their exact position changes on smaller screens, but their purpose remains the same.

Area	Purpose	Typical controls
Application header	Language, version and high-level actions	Configuration Mode, Guide, Backup, Import, Print/PDF, Export, Restore, Check status
Feature navigation	Switches between operational modules	Planting & care, Garden Plan, Calendar, Watering, Fertilising, Quantities, Care, Diary, Guide, Resources
Extended navigation	Planning and monitoring tools	Today, Successive sowing, Rotation, Irrigation, Pro, Smart placement, Crop needs, Digital Twin
Work area	Edits the current configuration or shows results	Settings sidebar, Planning/Planting process, layout, forms, reports and tables

Show or hide garden settings

Use **Hide settings** to collapse the left setup column when you need more room for the planning or layout workspace. Use **Show settings** to bring it back. Hiding settings does not delete or reset any data.

The difference between three histories

History	Use it for	Does it change current growing?
Garden Diary	Personal notes, tasks, observations, reminders and harvest notes	No, unless you also record the event in the Timeline
Activity Log	Audit trail of plant additions, deletions, quantity changes and moves	Indirectly; it documents layout changes
Digital Twin Timeline	Actual planting, failure, replacement, supplementary/successive planting and harvest events	Yes

Tip If a number in **Current growing** should change, use the Digital Twin Timeline or a plant-status action—not only a Diary note.

4. Saved garden configurations

A configuration is a named snapshot of the garden setup and its working process. You can maintain several configurations and resume them from the start menu.

Create a configuration

1. Select **Configuration Mode** or open the saved-configuration launcher.
2. Choose **New guided configuration** or **New manual configuration**.
3. The chosen mode opens directly; Manual must not first open Guided.
4. The application records the creation date and updates the configuration's last-change time automatically.
5. Rename the configuration when a descriptive name will help you recognise it later.

Resume or switch

1. Open **Configuration Mode**.
2. Select a saved configuration from the drop-down list.
3. Review its mode, status, creation date and last change.
4. Choose **Continue**. The current configuration is saved before the selected one is opened.

Important Configurations are local to the browser profile or desktop application data store. Export a backup when moving to another computer or browser.

Planning and planting are process states

The active configuration shows a clear process selector: **1 • Planning** and **2 • Planting**. Switching the process changes the task being performed; it does not discard either the garden setup or previous Timeline records.

5. Guided configuration

Guided configuration is recommended for a new garden or a user who wants a controlled sequence. Each step is saved automatically.

1. Space and ground garden

Enter the location/climate context, the overall ground-garden dimensions, bed arrangement and path widths. If there is no ground garden, leave it disabled or empty.

2. Raised beds

Add one or more raised-bed types. Enter width, length, height and quantity. You can use different dimensions for different bed groups.

3. Pots and planters

Add round, rectangular or other supported containers. Enter material, dimensions, depth and number of pieces. Contents can be set now or later.

4. Plants

Choose plants that belong in this configuration. Use search, filters, Cards or Compact view. Selecting a plant makes it available; it does not by itself prove that it has been planted.

5. Review

Review the created surfaces and selected plants. Return to any earlier step if something needs correction. Finish only when at least one usable surface exists.

After the review

The completion panel must keep you moving forward. Choose **Continue to planning** to enter intentions without locations, or **Continue to planting** when you are recording work that has already happened.

Do not confuse setup with planting Placing a crop in the guided setup or layout prepares the plan. Use the Planting process to register the real date, quantity and location.

Add space later

A finished guided setup is not locked. Reopen **Configuration Mode**, choose Guided, return to the relevant step and add more beds, expand the ground garden or add pots. Existing Timeline history remains attached to the configuration.

6. Manual configuration

Manual configuration uses the same logical sequence as Guided configuration but gives direct access to each editor. It is useful when you already know the required dimensions or need to modify an existing garden quickly.

Sequential manual workflow

1. **Space and garden:** define or edit the ground garden and bed division.
2. **Raised beds:** add, remove or resize raised beds.
3. **Pots and planters:** add containers and set their dimensions.
4. **Plants:** choose the plant set and optional contents.
5. **Review:** verify that there is at least one usable surface, then continue to planning or planting.

The current step is highlighted. Completed steps receive a completion mark. **Confirm and continue** moves to the next step only after the current editor has been shown and its data can be changed; it must not silently skip empty steps.

Move between Guided and Manual

Use the mode switch at the top of the configuration window. The current draft is retained. Select Manual when you want direct editing; select Guided when you want the step-by-step editor. The chosen mode should open directly.

Start empty

Destructive action **Start with an empty configuration** removes garden surfaces, raised beds, pots and plants from Planting & care. Location, Activity Log, Garden Diary, reminders and personal tips are retained. Export a backup first if you may need the removed layout.

The application offers separate empty starts for Guided and Manual configuration. Choose the one you intend to use so the next screen matches your choice.

7. Plant Library and plant details

The Plant Library is the main place to find crops, inspect their agronomic data and choose how to add them.

Find plants

- Use **All** to see the complete library regardless of category.
- Use **Suitable now** for crops whose seasonal window is appropriate for the selected location and date.
- Filter by Vegetables, Herbs, Fruit, Flowers, For pots, Spreading, Favourites or Recent.
- Use **Cards** for full information or **Compact** for a denser list.
- Use **Show plant relationships** to review good and unsuitable neighbours.
- Use **Select visible** or **Clear visible** only after checking the active filter.

Plant categories and groups

A plant has one primary group but may also appear in additional groups. Adding a crop to another group does not remove it from its primary group. **All** always shows the complete library.

Plant details

Select **Details** on a card to open the plant profile. The profile can include family, Latin name, sun, watering, spacing, density, care, good neighbours, plants to avoid, calendar information, varieties and garden-health notes.

Edit spacing used by your garden

1. Open a plant's **Details**.
2. Find **Spacing used in this garden**.
3. Enter **Between plants (cm)** and **Between rows (cm)**.
4. Select **Save spacing**. Density, capacity, future placement and spacing warnings use the new values.
5. Use **Reset to recommendation** to restore the built-in recommendation.

Existing layout Changing spacing does not move plants that are already placed. It changes future calculations and warnings.

Classic Add and Quick Plant

Method	Best for	Behaviour
Classic Add	An exact requested quantity placed automatically	Choose crop, destination or Automatic, and quantity. The application places only that crop and requested count when capacity allows.
Quick Plant	Choosing exact grid positions yourself	Select the crop, then click or drag over a ground bed, raised bed or pot. Finish or cancel the planting session explicitly.

Quantity rule A request for 1 plant must create at most 1 plant. If a warning prevents placement, the application should explain why; it must not silently add other crops or extra quantities.

Add a custom plant

Choose **Add your own plant** and enter the name, icon/colour, sun, sowing and harvest months, spacing, water, fertiliser, frost/heat sensitivity, care notes and companion relationships. Review custom data carefully because future calculations use it.

8. Planning: what and how much

Planning records intention. It is deliberately simple and location-independent.

1. Choose a crop

Select a crop from the Planning form.

2. Enter the target quantity

Enter the total number you intend to plant, not only the number you will plant today.

3. Choose when

Choose Today, Specific date or Not sure yet. The date is an intention and may be changed later.

4. Add to plan

Save the target. Repeat for the other crops.

Why planning has no location

Conditions change: a bed may be wet, a seedling batch may be smaller than expected, or a crop may need to move. The plan therefore remains a crop-level target. Location is recorded only when planting actually happens.

Planning example: a mixed garden

Scenario You intend to plant 6 tomatoes, 4 cucumbers and 24 lettuces. The garden contains six ground beds, but you have not yet decided where each crop will go.

1. Add Tomato with target quantity **6** and choose **Today**.
2. Add Cucumber with target quantity **4** and choose a specific date next week.
3. Add Lettuce with target quantity **24** and choose **Not sure yet**.
4. Do not choose G1, G2 or another bed in Planning.

Expected result The plan contains three crop targets and zero planting events. The Digital Twin must still show no actual planting until the Planting process is confirmed.

Edit or remove a target

Change the Planned quantity directly in the plan list or remove the crop from the plan. Editing a target does not delete valid historical Timeline events. If actual planting exceeds the new target, the application offers to reconcile the plan.

Zero values in the Digital Twin After planning, **Initially planted**, **Current growing** and other actual columns correctly remain zero. Planning is not planting.

9. Planting: what actually happened

Use Planting when you are ready to record real work. This is the point at which location becomes mandatory.

1. Open Planting

Select **2 · Planting** or **Continue to planting**.

2. Choose the crop

The form prioritises crops with a remaining planned quantity. Additional planting can also be recorded when the plan is empty or complete.

3. Enter the actual quantity

Enter only the number planted in this action. Do not enter the original plan unless all of it was completed.

4. Set the date

Choose Today or a specific date.

5. Choose the actual location

Select the concrete ground bed, raised bed or pot. If the crop spans several locations, record each location separately or use the supported batch workflow.

6. Confirm planting

The application saves the event and adds it to the Digital Twin Timeline automatically.

Partial planting

Plant only part of a target

Scenario The plan contains 6 tomatoes. Today you planted 4 in Ground bed 2.

1. Open Planting and choose Tomato.
2. Enter **4** as the actual quantity.
3. Choose Today and **Ground bed 2**.
4. Select **Confirm planting**.

Expected result Timeline: 4 tomatoes planted in G2. Plan: 6. Remaining: 2. The next-task prompt asks when the remaining 2 tomatoes will be planted.

More than planned

If the actual quantity exceeds the target, keep the real event. Then choose whether to update the plan to match actual planting or retain the original target as a record of the earlier intention.

No available location

Open **Edit beds and space** or Configuration Mode and add/resize a usable surface. Return to Planting afterward. The planting event should not be saved without a valid actual location.

10. Layout, locations and plant status

Read the layout

The layout shows ground beds (G1, G2 and so on), raised beds, pots, paths and plant icons. Bed labels and information controls identify each area. Statistics above the layout show bed area, bed count, pot count, total plants and distinct crop kinds.

Kinds **Kinds** means the number of different crop types currently represented in the relevant layout or summary—not the total number of plants.

Move plants

- Use the workspace move/edit action or drag support provided by the active view.
- Choose a valid destination bed or position.
- A move changes location; it must not change crop identity, icon form or icon size.
- The Activity Log records moves between areas and movements within a bed.

Red dashed bed outline

A red dashed outline is a spatial-conflict or capacity warning. It is not by itself a software error. Open the bed details to see the cause. Resolve the collision by moving plants, changing spacing, reducing quantity or consciously accepting a denser layout when appropriate.

Visual statuses



Figure 1. Visual meaning of plant status in the layout.

Planned icon A pale Planned icon in the layout represents only a provisional spatial intention. The authoritative crop plan remains location-independent. The actual location becomes part of the record only when a Planting event is confirmed.

Change status from the layout

Select a plant or bed and choose the appropriate status: **Planted**, **Failed**, **Replaced** or **Harvested**. The linked Timeline entry is updated automatically. Bed-level batch actions can mark an entire bed or an editable partial quantity.

Delete and undo

Use **Delete one plant** for a single item and **Erase with grid** for an area. Use the relevant undo command immediately when a move, deletion or Timeline edit was incorrect. Undo should reverse both the visible layout change and its linked record where applicable.

11. Digital Twin and Timeline

The Digital Twin represents the real garden over time. Open **Digital Twin**, then choose Overview, Timeline, Soil, Biodiversity or Annual report.

Overview columns

Column	Meaning
Planned	Current target from the Planning process.
Initially planted	First planting actions that fulfil the plan.
Replaced	Plants placed into failed spots; replacement restores a loss and does not fulfil extra plan quantity.
Supplementary planted	Additional planting in new space outside the initial planting.
Successively planted	A later planting linked to a successive-sowing series.
Unsuccessful seedlings	Recorded failures that reduce current growing.
Current growing	All planting actions minus harvested pieces and failed plants.
Harvested	Harvest records, in pieces or kilograms as appropriate.

Current-growing formula Initial + replacement + supplementary + successive planting – failed pieces – harvested pieces. Replacement restores a failed spot and does not increase plan fulfilment.

Harvest units A harvest recorded in kilograms represents harvested produce and does not automatically reduce the number of growing plants. Current growing is reduced only when the harvest event represents whole plants or planting places.

Add a Timeline entry

1. Choose **Digital Twin > Timeline**.
2. Select the event type: Planting, Harvested, Failed, Observation or Problem.
3. For Planting, choose the purpose: Initial, Replacement, Supplementary or Successive.
4. Enter the date, crop, actual area, quantity and unit. Add a note or photo if useful.
5. Select **Add entry**. The Overview recalculates automatically.

Edit and undo

Use **Edit** on an event to correct its date, crop, location, quantity, purpose, note or photo. Use **Undo** when offered to restore the previous Timeline and linked layout state. Do not delete and recreate an event merely to correct one field unless no edit action is available.

A crop in several beds

Open the crop's location breakdown in the Overview. Each location shows planned, planted, growing, failed, harvested and remaining values. Select the required bed before adding or editing an event. A global crop total is useful, but the location row is the authoritative record of where that action happened.

Consistency and double-count protection

The application warns when a new status or quantity would make Current growing inconsistent with location-level records. Resolve the inconsistent entry instead of adding another duplicate planting. A warning should guide correction, not block unrelated garden work.

Failure and replacement example

Scenario Ten lettuces were initially planted in G1. Two seedlings failed and two new seedlings were planted in the same spots.

1. Add or use the existing initial planting event: 10 lettuce, G1.
2. Record **Failed**, quantity 2, G1.
3. Record **Planting > Replacement**, quantity 2, G1.
4. Check the location breakdown and Current growing.

Expected result Initially planted: 10. Failed: 2. Replaced: 2. Current growing: 10. Plan fulfilment has not increased above the original 10.

12. Calendar, watering, care and everyday work

Today

The Today dashboard combines location, current month, selected crops and reminders. Use it to see sowing/planting, harvest, watering and care prompts. Add a suggested task to reminders when you want an explicit to-do item.

Calendar

The Calendar summarises indoor sowing, outdoor sowing/transplanting and expected harvest windows for selected crops. Dates are estimates; adjust for local climate, variety, frost and current weather.

Watering

Watering estimates use planted area and crop demand. Summer estimates are guidance, not automatic irrigation commands. Reduce watering after rain, increase it during heat, and check actual soil moisture—especially in pots.

Fertilising and Care

Fertilising gives crop-oriented feeding guidance. Care lists crop-specific actions, companion information and the seasonal rhythm of the garden. Record completed work in the Garden Diary when you want a personal operational record.

Quantities

Quantities estimates seeds or seedlings and area-related needs from the plan and spacing. Direct-sown crops may require extra seed for germination and thinning; transplanted crops benefit from a reserve for losses.

Garden Diary and reminders

- Add a date, category, crop, quantity/unit, note and optional photo.
- Use categories such as Sowing, Planting, Watering, Fertilising, Weeding, Harvest, Observation or Other.
- Filter the diary by day, week or month.
- Add dated reminders and mark them complete. Overdue and today reminders are highlighted.
- Use Timeline—not only Diary—when an event must change Current growing.

Guide and Resources

The in-app **Guide** explains configuration, planning, planting and Timeline. Below it, gardening tips and personal links remain available. **Resources** opens external reference links; external content may require an internet connection.

13. Advanced planning tools

Garden Plan / Designer

The Designer creates a spatial drawing independently of Planting & care. Add vegetable areas, raised beds, grass, trees, paths, water and garden objects. Drag to move, use the corner control to resize and edit free-form boundary points when supported.

- Use **Plant / analyse** on a productive area to set contents and review neighbours and density.
- Use the 3D view as a view-only isometric preview; edit in 2D.
- Enable the link to include manually drawn vegetable and raised-bed areas in Planting & care only when that is the intended workflow.
- A template changes the drawing; it should not erase the Diary or Timeline history.

Successive sowing

Create a series when you want repeated sowings for continuous harvest. Choose crop, area, first date, interval and number of runs. In the Digital Twin Timeline, execute each due run once; duplicate-series protection prevents recording the same run twice.

Crop rotation

Save annual crop history by bed. The Rotation module warns when the same plant family returns too soon and suggests alternatives. Its accuracy depends on complete historical entries.

Irrigation

Define water sources, flow/capacity and irrigation zones. Assign garden areas and an irrigation method. The estimate combines area and crop demand; confirm that real pressure, pipe size, terrain and watering restrictions support the plan.

Smart placement

Set north, describe sun exposure by area, inspect paths/access and add obstacles that may affect shade. The app compares recorded exposure with crop needs; it does not perform a full physical shadow simulation.

Crop needs

Enter household size, production goal, available effort and desired crops. The application estimates recommended quantities, area, shopping needs, cost and potential value. Treat all yield and value estimates as planning scenarios, not guarantees.

Soil, biodiversity and annual report

The Digital Twin can store soil type, measured pH, drainage, organic matter and notes. Biodiversity tracks useful habitat features such as flower strips, insect hotels, bird baths, mini ponds and compost corners. The Annual report combines the season's records into a printable summary.

14. Backups, restore points, import/export and printing

Which protection to use

Action	Purpose	When to use it
Backup / Import backup	Portable copy of the garden and supported module data	Before moving devices, clearing browser data or making major changes
Export (JSON)	Portable machine-readable export of the current plan	For archiving, transfer or technical support
Create restore point	Local snapshot before a significant change	Before importing, clearing, resetting or experimenting
Restore version	Return to a saved local restore point	When a recent local change was incorrect
Print / PDF	Print the current view or save it as PDF	For a paper copy or simple sharing
Professional plan / PDF	Prepared report containing multiple planning sections	For a comprehensive shareable plan

Safe backup routine

1. Select **Backup** or the applicable full-backup command.
2. Save the JSON file in a folder that is included in your normal computer backup.
3. Include the date and garden name in the filename if the browser does not do so automatically.
4. Before importing on another device, create a restore point there as well.
5. Use **Import backup**, review the preflight summary and confirm only if the file belongs to the intended garden.

Import warning Import replaces the currently open garden. The current state should be saved as a restore point first, but a separate exported backup is still the safest protection.

Status check

Use **Check status** to verify core modules, local storage, Designer, templates, smart suggestions, offline support and runtime errors. A successful basic check does not replace testing the exact workflow you intend to use.

15. Worked examples

End-to-end scenarios

THE ARTMAN VRT WORKFLOW

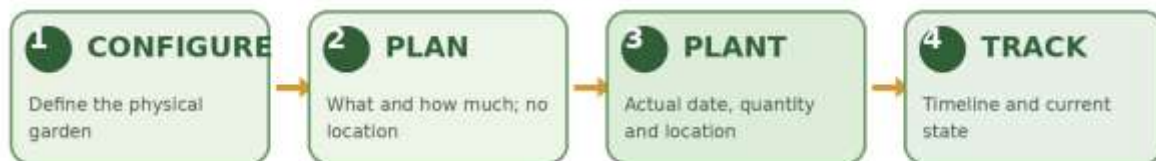


Figure 2. The standard workflow used in the examples.

Example A: new ground garden with partial planting

Scenario A 4 × 5 m ground garden is divided into six beds. The plan is 6 tomatoes, 4 cucumbers and 24 lettuces.

1. Create a new Guided configuration called **Home garden 2026**.
2. Define the 4 × 5 m space and six beds; add any raised beds or pots.
3. In Planning, add Tomato 6 (Today), Cucumber 4 (specific date) and Lettuce 24 (Not sure yet).
4. In Planting, record Tomato 4 in G2 and Lettuce 12 in G1.
5. Open Digital Twin Overview and verify the remaining targets.
6. Later, plant the remaining 2 tomatoes and choose their actual location at that time.

Expected result After the first planting day: Tomato planned 6, initially planted 4, remaining 2; Lettuce planned 24, initially planted 12, remaining 12; Cucumber planned 4, initially planted 0, remaining 4.

Example B: one crop in several beds

Scenario Twenty radishes will be planted across three ground beds because no single bed has enough suitable free space.

1. Keep one crop-level plan: Radish 20.
2. Record 8 radishes planted in G1.
3. Record 6 radishes planted in G2.
4. Record 6 radishes planted in G3.
5. Open the Radish location breakdown in Digital Twin Overview.

Expected result The global Radish row shows planned 20 and initially planted 20. The location breakdown shows G1 = 8, G2 = 6 and G3 = 6. Future failure, harvest or replacement events must use the correct bed.

Example C: add two balcony pots later

Scenario The original garden is complete, but two 35 cm round pots are added for herbs.

1. Open Configuration Mode and remain in the current configuration.
2. Switch to Guided or Manual and open **Pots and planters**.
3. Add a round pot: diameter 35 cm, depth 30 cm, pieces 2.
4. Choose herbs in the Plant Library and save the configuration.
5. Return to Planning or Planting. Existing Timeline entries remain unchanged.

Expected result Two new locations are available. No herb is counted as planted until a Planting event with one of the new pot locations is confirmed.

Example D: custom spacing

Scenario The recommended maize spacing is 25 × 70 cm, but your local variety and cultivation method use 25 × 60 cm.

1. Open Maize in the Plant Library and select Details.
2. Change Between plants to 25 and Between rows to 60.
3. Select Save spacing.
4. Review the updated density and future capacity warnings.

Expected result Future calculations use approximately 6.7 plants/m² rather than the previous 5.7 plants/m². Existing maize icons stay where they were.

Example E: correct a mistaken planting entry

Scenario A planting of 6 cucumbers in G4 was recorded with the wrong date; the actual date was two days later.

1. Open Digital Twin > Timeline.
2. Select Edit on the cucumber planting event.
3. Correct the date and save changes.
4. Verify that the location and quantity did not change.

Expected result The event is corrected without creating a duplicate. Current growing remains consistent with the six cucumbers in G4.

16. Troubleshooting and frequently asked questions

Why does Manual open Guided first?

It should not in v1.10.50. Confirm that the header shows v1.10.50, refresh the web app or install the current desktop build. A stale PWA cache or older MSI may still run an earlier workflow.

Why are styles missing on cPanel?

The server probably has only index.html. Upload and extract the entire web package, including css, js, icons, manifest, service worker and assets folders, directly into the subdomain document root.

Why does Show settings change text but reveal nothing?

Use v1.10.50 or later. If the current version is already installed, clear the old PWA cache/site data only after exporting a backup, then reload.

Why did Timeline values remain zero after planning?

Because a plan is not a planting. Open Planting, enter the actual quantity, date and location, and confirm the event.

Where is Timeline?

Open Digital Twin, then choose Timeline. The Planting workflow also has an Open Timeline button.

What does Kinds mean?

The count of distinct crop types in the relevant layout or summary. Ten plants made up of tomato, lettuce and carrot equal three kinds.

Why is the unit “pcs” fixed?

Plant status and planting quantities are counted as pieces/planting places. Harvest can also use kilograms where the event type supports it.

How do I choose a location when a crop is in several beds?

Record or edit the event with the concrete bed. In Digital Twin Overview, expand the crop's location breakdown to review each bed separately.

Why is a bed surrounded by a red dashed line?

It indicates a spatial conflict or capacity warning. Open bed details and resolve spacing/overlap if necessary. The outline is not automatically a software defect.

Why did an icon change size after a move?

This should not happen in v1.10.50. Verify the version and retry after refreshing. If it persists, export a backup and record the crop, source bed, destination bed and exact steps for support.

Classic Add created the wrong quantity—what should I do?

Stop the session, use Undo if available, and verify v1.10.50. Classic Add must place only the selected crop and requested quantity. Export a backup before reproducing the issue.

Why is a new status blocked?

The application detected inconsistent location-level counts that could make Current growing negative or double-count a planting. Correct the conflicting Timeline entry instead of adding another event.

Why does the app show an old version after deployment?

First open the Web Update Center and use its refresh or repair action, then close and reopen the installed PWA. If the old version remains, export a backup and perform a hard refresh. Clearing site data or unregistering the Service Worker should be used only as a final recovery step because locally stored garden data may be removed.

What if local storage is full?

Export a backup, reduce the number/size of photos and remove unused old configurations or restore points. Do not clear all data before confirming that the backup file is valid.

Can I use the same data in different browsers automatically?

No automatic cloud sync is implied. Export a backup from one browser/device and import it into the other.

Information to include in a support report

- Application version shown in the header.
- Web/PWA or Windows desktop; browser or installer type.
- Configuration mode and exact step.
- Crop, requested quantity and source/destination location.

- Exact sequence of clicks, expected result and actual result.
- Screenshot and an exported backup when it is safe to share.

Privacy before sharing An exported backup may contain garden names, notes, dates, photos and location-related information. Review the file and remove sensitive content before sending it for support.

17. Data, privacy and practical limitations

Local-first storage

Garden data is primarily stored locally in the active browser profile or desktop application data store. This supports offline work and privacy, but the user is responsible for backups and device migration.

Photos

Timeline and Diary photos can consume significant local storage. Use appropriately sized images, keep external originals and export backups regularly. Some restore points may omit advanced data or photos when storage limits are reached.

Agronomic estimates

- Sowing and harvest windows depend on climate, weather, variety and local conditions.
- Spacing and density are recommendations and can be changed for the current garden.
- Water, fertiliser, yield, cost and value calculations are estimates—not guarantees.
- Companion and crop-rotation warnings are decision support, not hard planting prohibitions.
- Disease and pest information is not a final diagnosis. Consult a qualified local source where safety matters.

Safe operating practice

- Export a backup before import, reset, bulk deletion or major restructuring.
- Review the crop, quantity, date and location before confirming a planting or harvest.
- Use Edit or Undo promptly when an event is wrong.
- Check location breakdowns before recording a status for crops grown in several beds.
- Treat warnings as explanations to resolve, not obstacles to bypass without review.

18. Appendix: quick reference, official links and support

Glossary

Term	Definition
Configuration	A named, dated garden setup with Guided or Manual mode and an active Planning/Planting process.
Ground garden	An overall in-ground growing area that can be divided into beds and paths.
Raised bed	A separate elevated growing area with width, length and height.
Pot / planter	A container location with shape, material and dimensions.
Plan	Crop-level target quantity and intended timing; location-independent.
Initial planting	The first real planting that fulfils the plan.
Replacement planting	A plant placed into a failed spot; restores current growing without increasing plan fulfilment.
Supplementary planting	Additional planting that uses new space.
Successive planting	A later planting linked to a repeated-sowing series.
Current growing	Plantings plus replacements minus failures and harvested pieces.
Digital Twin	The location-aware historical record of the real garden.
Timeline	Dated events that drive the Digital Twin.
Activity Log	Audit trail of additions, deletions, quantity changes and moves.
Garden Diary	Personal notes, tasks, observations, reminders and harvest notes.
Kinds	Number of distinct crop types in a layout or summary.

One-page operational checklist

- Open the correct saved configuration.
- Confirm whether you are **Planning** or **Planting**.
- Plan crop and total quantity without selecting a location.
- At the garden, enter only the actual quantity completed.
- Select the real date and location.
- Confirm once and verify the Timeline entry.
- Record failures, replacements and harvests when they occur.

- Check location breakdowns for crops in multiple beds.
- Export a backup after major seasonal changes.

Official links and downloads

Use only official Artman addresses for the application, installers, checksums and support.

Web application <https://vrt.artman.si>

Windows downloads and user manual <https://www.artman.si/en/resources.html#downloads>

SHA-256 checksums <https://www.artman.si/downloads/SHA256SUMS-v1.10.50.txt>

Support info@artman.si

Official distribution Installers, manuals and checksums should be downloaded only from artman.si. Links shared through unofficial mirrors may be outdated or modified.

Windows desktop updates and security

The desktop application may offer a signed update when a compatible release is published. Export a backup before a major update and use the same installer channel whenever possible: EXE for normal individual installation, MSI for managed deployment.

Signature distinction The Tauri updater signature verifies automatic-update artefacts inside Artman Vrt. Windows publisher identity requires a separate Authenticode code-signing certificate. Until that certificate is used, Windows may show an Unknown publisher or SmartScreen message.

Support and privacy

When requesting help, include the application version, platform, exact workflow, expected result and actual result. Share screenshots or backups only after checking them for personal notes, photos and location-related information.

End of guide

For everyday use, remember the simplest rule: **plan without a location; record actual planting with a date and location; let the Timeline maintain the history.**

Artman Vrt v1.10.50 · Complete User Guide — English edition

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This guide applies to Artman Vrt v1.10.50. Agronomic recommendations are indicative and must be adapted to local climate, soil, weather and official product instructions.