

Treasure Storage User Manual

Welcome to the official user manual for the **Treasure Storage** application.

This document serves as a complete guide to the application's features, from installation to advanced export and settings options.







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1. Introduction

Treasure Storage is a professional mobile application for metal detectorists and treasure hunters, designed for **offline use** in the field. It allows you to easily and quickly record finds, save their GPS location, take photo documentation, and manage your entire collection directly on your phone.

Key Features

-  **Fully Offline:** Works without internet (maps, GPS, database).
-  **Accurate GPS:** Uses the phone's GPS with location averaging for higher accuracy.
-  **Elevation:** GPS altitude with optional geoid correction for accurate above-sea-level readings (WGS84 → MSL).
-  **Photo Documentation:** Save photos directly to finds (up to 10 per find).
-  **Offline Maps:** Ability to download map data for use without signal.
-  **Export:** Wide range of export options (CSV, JSON, GPX, ZIP with photos) for further processing.

-  **Cloud Sync:** Ability to synchronize with the Treasure Storage Desktop application.

Limitations (Current Version)

The application is constantly evolving. Currently (version 2.x):

- **Data Import:** The application does not yet support direct data import from other mobile apps via the user interface.
- **External GPS:** Connection of external GPS modules via Bluetooth is not yet supported.

2. Installation and Launch

System Requirements

- **Android:** Version 8.0 (Oreo) and newer.
- **GPS:** Device must have a built-in GPS module.
- **Camera:** For taking photo documentation.

Downloading the App

The application is available on official stores:

-  **Google Play (Android):** [Treasure Storage on Google Play](#)

Note: This is a paid application (one-time payment). It contains no ads or hidden fees.

First Launch

After installation and first launch, the application will ask for **location access (GPS)** and **storage/gallery access**.

- **Location:** Allow "While using the app" or "Always" for proper GPS function and track recording.
- **Storage:** Necessary for saving photos and exporting data.

3. Working with Finds

The main purpose of the application is to record finds.

Creating a New Find

1. On the main screen, click the large "+" (**New Find**) button.

2. The find form will open.

3. **Fill in the details:**

- **Name:** Short description of the item.
- **Material, Condition, Depth:** Optional additional parameters.
- **Category:** From the list (Coins, Militaria, Jewelry, etc.).

4. **GPS Location:**

- Location focuses automatically if you have a signal.
- You can also click on the map and select the location manually ("Pick from map").

5. **Photos:**

- Click the camera or gallery icon.
- Add up to 10 photos.

6. Click **Save** (floppy disk icon in the top right).

List of Finds

All saved finds can be found in the "**Finds**" section (list icon in the bottom menu or on the dashboard).





- Finds are sorted chronologically (newest first).
- Clicking on a find opens its **Detail**.
- In the detail view, you can **Edit** (pencil icon) or **Delete** (trash bin icon) the find.

4. GPS and Location

Targeting accuracy is key for documentation.

GPS Info Widget

On the main screen, you can see a GPS information panel:

- **Accuracy:** In meters. Color quality indicator:
 -  **< 3 m** (Excellent)
 -  **3-5 m** (Good)
 -  **5-8 m** (Average)
 -  **> 8 m** (Poor)
- **Status:** "Fixed" / "Waiting for signal".

Accuracy Settings

In **Settings > GPS Settings**, you can influence GPS behavior:

- **Accuracy:** High / Medium / Low. We recommend "High".
- **Wait Time:** How long the application should average the position when saving (default 5s). Longer time = higher accuracy.

Tips for Better Signal





- Keep the phone in open space (not in a pocket, not under trees).
- Turn on GPS a while before searching so the phone can "warm up" and catch satellites.

5. Maps and Tracks

The application offers map previews for orientation and displaying finds.

Map Controls

In the bottom right corner of the map, you can find control buttons:

-  **Compass:** Toggles map orientation between "North Up" (default) and "Compass Heading" (rotates with you).
-  **Location Tracking:** The "My Location" button enables tracking mode. The map automatically moves with you. If you pan manually, tracking turns off.
-  **Reset View:** Centers the map to show all your finds (or default location if empty).
-  **Track Recording:** Quick toggle for track recording.

Map Modes

1. **Online Map:** Requires internet. Default is OpenStreetMap.
2. **Offline Map:** Works without internet. Must be downloaded beforehand.

Downloading Offline Maps

1. Go to **Settings > Offline Maps**.
2. Click "**Download New Area**".
3. Select the area on the map and zoom level.
4. Confirm download. Maps are saved to the phone's memory.

Track Recording

The application can record your track (where you walked).

1. On the map screen, tap the "**Record Track**" button in the status bar.
2. The active track is drawn in red on the map.

3. After stopping, the track is automatically archived — open **Track Management** (map menu) to rename, recolor, or hide it.
4. Track export is possible in **GPX** format (see Export).

Track Management

For each track you can change its color (Color), hide it from the map (Visibility) or completely remove it (Delete).

6. Prospections

Prospections allow you to define specific areas of interest (polygons) on the map and organize your finds within these areas.

Creating a Prospection

1. Open the main menu (hamburger icon) and select "**Prospections**".
2. Tap on "+" (**New Prospection**).
3. Enter a **Name** and choose a **Color** for the area.
4. **Draw Area:** Tap on the map to add points and define the polygon boundary. You need at least 3 points. Ideally, outline the field or area you plan to search.
5. Save the prospection.

Active Prospection

You can mark one prospection as **Active**.

- The active prospection is highlighted on the map with its color.
- **New finds** you create will be automatically linked to this active prospection if they fall within (or near) the area.
- To activate, open the prospection detail and toggle the "**Active**" switch.

Managing Prospections

- In the list of prospections, you can see all your defined areas.
- Click on a prospection to see its details, calculated total area (m²), and number of linked finds.
- You can edit the shape/name or delete prospections from their detail screen.

7. Photos

Quality photo documentation is the foundation of archaeological finds.

- **Rules:**
 - Take photos in daylight.
 - Use a scale (coin, ruler) to give an idea of size.
 - Take photos of the find situation (object in the ground) as well as detail after removal.
- **Storage:** Photos are stored in the application's private folder. They are deleted when the application is uninstalled, so **back them up regularly** (Export ZIP)!

8. Data Export

Use the Export function for backup and work on PC.

Access: **Settings > Export Finds.**

Supported Formats

Format	Description	Suitable for
ZIP	Archive containing finds (JSON) + ALL photos.	Complete backup , transfer to PC.
CSV	Spreadsheet text file.	Excel, Google Sheets, statistics.
JSON	Structured data.	Programming processing, databases.
GPX	GPS exchange format.	Displaying points and tracks in map applications.
HTML	Web page.	Quick viewing of finds in a browser.
PDF	Document with photos and map per find.	Professional documentation, printing.
Markdown	Folder with text files and photos.	Digital journal, web publishing.

Recommendation: Perform a regular **ZIP export** after every major trip to avoid losing your data in case of phone loss/damage.

File locations on phone:

- Exports: /Documents/TreasureStorage/exports/
- Backups: /Documents/TreasureStorage/backups/

These folders are accessible via the phone's file manager or USB connection to a PC.

9. App Settings

In the **Settings** menu (gear icon), you can customize the application's behavior.

- **Appearance and Language:**
 - **Theme:** Light / Dark / System mode.
 - **Language:** Czech, English, German, French, Polish, Ukrainian.
- **Data:** Manage exports and statistics.
- **Maps and GPS:** See sections 4 and 5.
 - *Clear Map Cache:* Frees up disk space by deleting temporary tiles.

10. Troubleshooting

GPS not working / No signal

- Are you outdoors? GPS does not work reliably inside buildings.
- Do you have permissions enabled? Check Phone Settings > Apps > Treasure Storage > Permissions.
- Try restarting the phone (compass and GPS calibration).

App crashes when taking photos

- Do you have enough storage space?
- Some phones with aggressive memory management may kill the app if the camera takes too much RAM. Try taking photos via the system app and then selecting "From Gallery".

My maps disappeared

- If you are offline, have you downloaded the "Offline Map" for the area? Online maps do not work without internet.

11. FAQ (Frequently Asked Questions)

Q: Is the app free?

A: No, it is a paid application with a one-time fee. This guarantees zero ads and privacy protection.

Q: Are data backed up to the cloud (Google Drive, iCloud)?

A: Yes. The app supports **Google Drive Backup** (Export → Data Backup → Connect Google Drive). You can also back up locally as a ZIP file. The ZIP format is compatible with **Treasure Storage Desktop** (Windows/Linux) for direct import.

Q: Can I import data from another application?

A: Not yet. The import function (from CSV/GPX) is planned for the future.

Q: Where can I find the data in the phone?

A: Data is stored in the application's internal database. Use the **Export** function to access it. Exported files are saved to `/Documents/TreasureStorage/exports/`, backups to `/Documents/TreasureStorage/backups/` — both accessible via the file manager or USB connection to PC.

12. Cloud Backup (Google Drive)

The app supports backing up data to **Google Drive**:

1. Go to **Export** → **Data Backup** section.
2. Tap "**Connect Google Drive**" and sign in with your Google account.
3. Use "**Back Up Exports to Drive**" to upload all exports to your Drive folder.
4. Alternatively, use "**Sync ZIP to Drive**" to create and upload a complete ZIP backup — this is the recommended format for direct import into **Treasure Storage Desktop** (Windows/Linux).

13. Archaeological Ethics

Searching with a metal detector carries a responsibility towards cultural heritage. Please follow these rules:

- **Respect Private Property:** Always ask for permission to enter land.
- **Fill Your Holes:** Always return the surface to its original state after removing an item.
- **Reporting Finds:** Report significant archaeological objects to the appropriate museum or heritage institute.
- **Protected Areas:** Never search on declared archaeological sites or in heritage zones.

- **Nature Protection:** Protect the plants and animals in the vicinity of your locations.