

S.A.K. Utility

Swiss Army Knife (S.A.K.) Utility – Your all-in-one desktop companion for backups, file organization, duplicate removal, and license key scanning, with multi-threaded speed and cross-platform support for Windows & macOS.

■ Features

■ Multi-User Backup System

- Smart folder structure: Backups saved as backup// automatically.
- Blazing fast: Multi-threaded file copying for large datasets.
- Directory hierarchy preserved: Nested folders remain intact.
- Real-time progress: Live percentage, speed, and file tracking.
- Cancel anytime: Abort backups on demand.
- Detailed logs: Every operation logged under _logs/.

■ Directory Organizer

- Auto-sort by file extension: Group files into extension-based folders.
- Collision handling: Automatically renames duplicates.
- Action logs: Full record of all file moves.

■ Duplicate File Finder

- Accurate MD5 detection: Finds true duplicates regardless of name.
- Flexible actions: Delete, move, or export reports.
- Safe deletions: Keeps one original copy by default.
- Full logging: Every action documented.

■ License Key Scanner

- Windows Registry & macOS Plists: Detects potential license keys.
- Admin prompt on Windows: Elevation for deeper registry access.
- Multi-threaded scanning: Faster results on large systems.
- Live progress bar: Track scan percentage with cancel option.
- Exportable results: Save keys & logs for future reference.

■ Keep Screen Awake (Windows Only)

- Prevents system sleep: Ideal for long-running backups.
 - Fallback mode: Cursor simulation if needed.
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■ Installation

Requirements

- Python 3.9+
- PySide6 for GUI
- Windows or macOS (Linux support planned)

Install dependencies

`pip install PySide6`

For Windows registry scanning:

`pip install pywin32`

Run the app

`python SAK_Utility_Full_With_MT_LicenseScan.py`

■ Usage Guide

1. Set Backup Location → Choose where backups will be stored.
 2. Select Users → Pick user profiles to include in backups.
 3. Start Backups → One-click backups for Documents, Photos, etc.
 4. Organize Folders → Sort files by extension automatically.
 5. Find Duplicates → Delete, move, or export duplicate reports.
 6. Scan License Keys → With admin privileges for full registry access.
 7. Keep Screen On → Prevents sleep during long operations.
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■■ Known Issues

- License Key Limitations: Many modern apps store keys in encrypted or

cloud locations.

- Registry Access: Some Windows registry keys remain inaccessible even with admin rights.
 - macOS Plists: Binary or encrypted plists may not reveal keys.
 - Backup Speed: Disk I/O limits speed on slow drives.
 - Platform Differences: Some features are Windows-only.
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■ Future Enhancements

- Modern GUI: Tabs, dark mode, and custom themes.
 - Backup Scheduler: Automate recurring backups.
 - Cloud Integration: Direct backups to Google Drive, OneDrive, Dropbox.
 - Thread Control: User-defined thread limits.
 - Integrated Log Viewer: Read logs inside the app.
 - Linux Support: Extend compatibility to Linux systems.
 - Incremental Backups: Copy only changed files after first backup.
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■ License

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