

# P5 Archive Checker

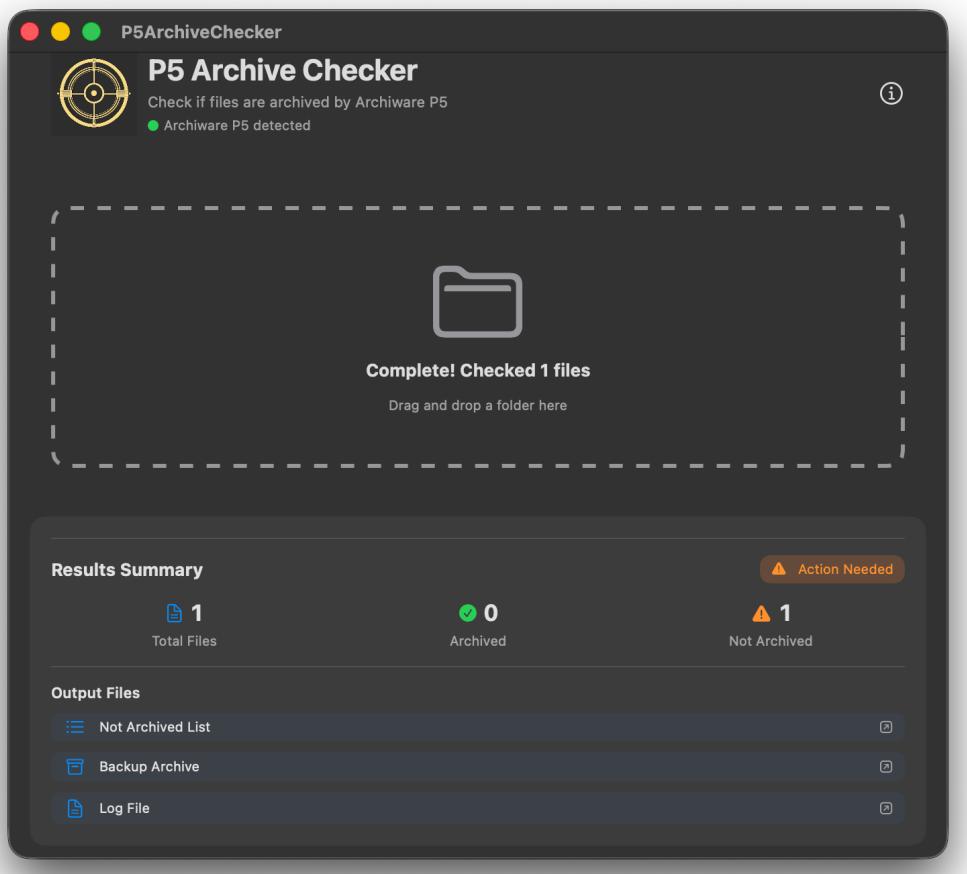
# Are my files archived?

**P**5 Archive Checker for macOS is a Drag-and-drop folder checker for Archiware P5.

P5 Archive Checker is a macOS native application that allows you to quickly verify whether the files inside any folder have been archived to Archiware P5 Archive.

Simply drag a project folder into the app, and it performs a full inspection using the system's installed P5 tools.

*The P5 Archive Checker app is a drag and drop application to test folders if archived by P5*



This documentation describes how the bundled shell script operates internally and how the Swift application communicates with it.

## Overview

When a folder is dropped into the app, P5 Archive Checker:

1. Scans every file in the folder (and its subfolders).
2. Queries Archiware P5 using the nsdchat command-line API.
3. Determines:
  - Which files are archived
  - Which files are not archived
  - Archive handles
  - Archive status
  - File sizes (raw + GB)
  - Archive date (converted from UNIX time)
  - Tape volume name and barcode
4. Generates user-readable reports and log files.
5. Provides continuous progress updates to the Swift UI.
6. Cleans up temporary files after completion.

The core logic is implemented by a POSIX shell script bundled with the app.

## System Requirements

- macOS
- Archiware P5 installed locally
- nsdchat available at:

**/usr/local/aw/bin/nsdchat**

If P5 is missing or not executable, the app reports a fatal error immediately.

# How the Script Runs (High-Level)

## 1. Environment Checks

Before running, the script verifies:

- nsdchat binary exists
- It is executable
- A folder path was provided by the app

## 2. Progress Reporting to the App

The script writes progress updates to:

**/private/tmp/p5-progress-<timestamp>.txt**

## 3. Temporary Working Files

All intermediate data is stored in /private/tmp with timestamped filenames. These files are used to track:

- All discovered files
- Files with archive handles
- Files not archived
- Status, size, creation time
- Volume and barcode
- Final CSV compilation

## 4. File Scanning

The script recursively scans the folder:

- Hidden files excluded
- P5 metadata excluded (\*.p5c, \*.p5a)

## 5. P5 Query Phase

For each file, the script runs:

```
nsdchat ArchiveEntry handle localhost {"<filepath>"}
```

Files are split into:

- Archived files → have a handle
- Not archived → no handle

Additional metadata is retrieved only for archived files:

Property	Command
Status	ArchiveEntry <handle> status
Size	ArchiveEntry <handle> size
Btime (archive timestamp)	ArchiveEntry <handle> btime
Volume Name	ArchiveEntry <handle> volume
Volume Barcode	Volume <volname> barcode

## 6. CSV Generation

A final archive CSV is produced:

**/Users/Shared/<timestamp>-Archived-<folder>.csv**

Columns:
File Path
P5 Handle
Status
Size (bytes)
Size (GB)
Archived Date
Volume Barcode

## What the User Sees

- A drag-and-drop window
- A progress bar as files are scanned and queried
- A success or error result
- Buttons to open:
- CSV archive report
- Missing-file summary
- Log file
- Backup archive (optional)

## This app is designed for:

- Post-production technicians
- Archivists
- Data wranglers
- Artists needing quick confidence checks
- Studios using P5 as part of a long-term archive workflow

## Summary

This macOS native app provides a fast, automated method to verify the archival status of a project folder in Archiware P5.

It combines the power of P5's nsdchat cli with a Swift user interface, enabling:

- Live progress
- Detailed archive metadata retrieval
- Automatic CSV output

The result is a smooth, reliable, production-ready archive verification tool.