HOLOGIC Auto Print Screen

Operators Manual
Revision 1
2025-05-06

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Overview

The HOLOGIC Automated Print Screen (HAPS) software is designed to capture needed print screens of the T5000 GUI with automated control of the mouse and keyboard. This allows the operator to run a single operation to capture multiple print screens in every available language. The print screen will be saved as a PNG, with the filename indicating the screen ID and the language. The software consists of two independent parts; a web page that allows the operator to select the needed screens, and an AHK (AutoHotkey) script file that will provide the automation. Using the web page to select the needed screens is optional, and the screen IDs can be typed directly into the AHK script file.
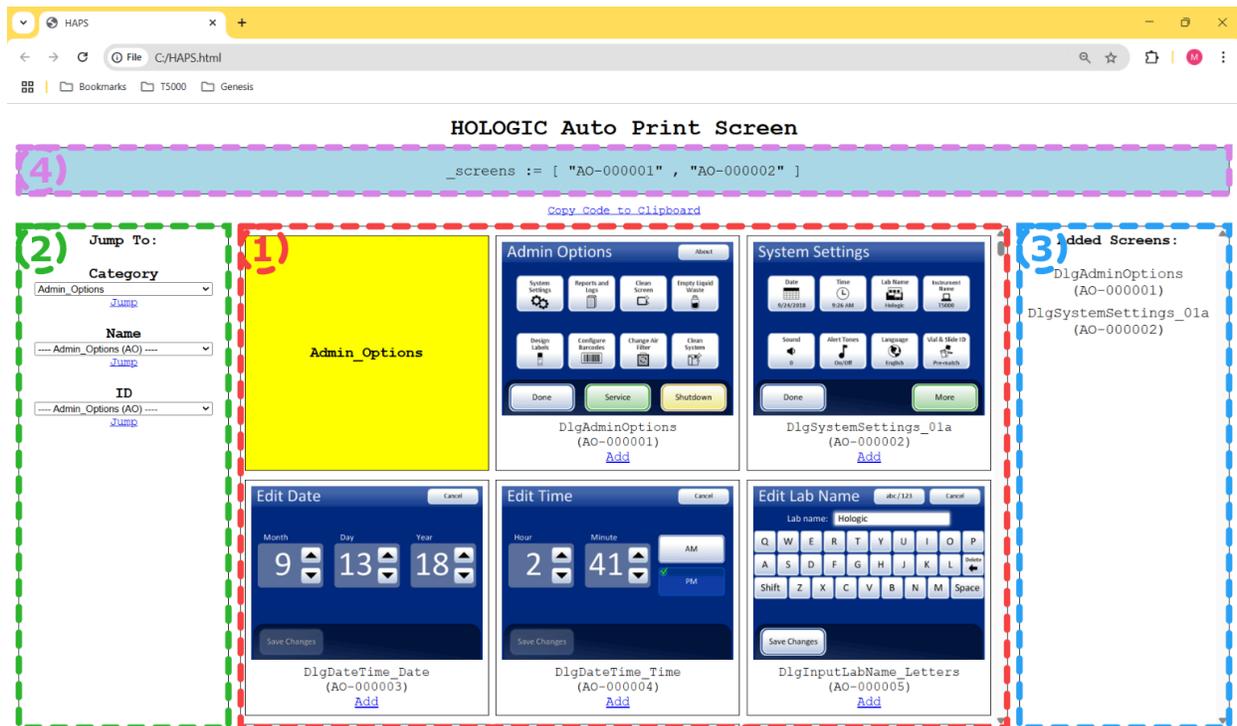
Screen Selection Web Page

Overview

The screen selection web page is a single page that displays every[1] (possible[2]) screen of the T5000 GUI. There are three dropdown menus for quick navigation. There is a running list of the currently selected screens. There is the single line of code that needs to be pasted into the AHK file, with a convenient "Copy Text to Clipboard" button/link. There are also multiple notes and page generated alerts for some of the screens.

[1]Currently the HAPS software supports 143 different screens from the Admin Options, Barcode Config, and Label Design categories.
[2]Some T5000 GUI screens can not be captured by the HAPS software.

Windows

(1) Screens
- This scrollable window contains every available screenshot organized by category and screen ID

- Each screen has the screen name, screen ID, any notes or alerts (see [Notes and Alerts]() below), and an "Add" button/link

(2) Quick Navigation
- This scrollable window contains three dropdown menus for quick navigation to a category or screen
- Category - This dropdown menu contains all categories:
  - Admin Options
  - Barcode Config
  - Errors (*Coming Soon)
  - Inventory (*Coming Soon)
  - Label Design
  - Reports (*Coming Soon)
  - Sample Processing (*Coming Soon)
  - Startup (*Coming Soon)
- Name - This dropdown menu contains every screen name, sorted by category
- ID - This dropdown menu contains every screen ID, sorted by category
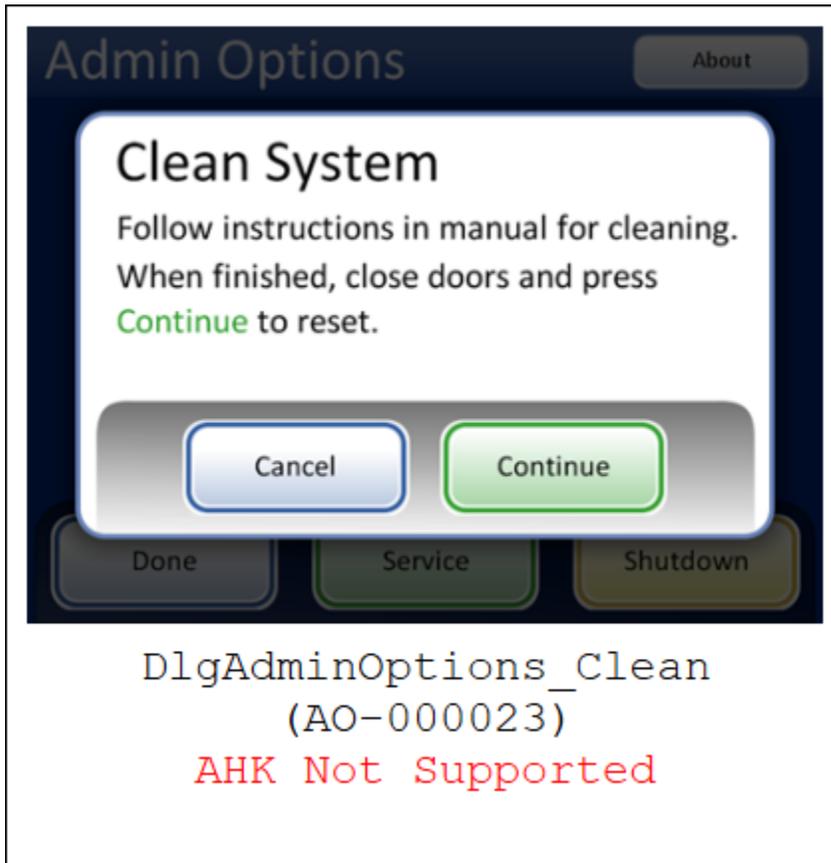
(3) Added Screens
- This scrollable window contains a list of every screen that has been added by the operator
- This list will remain in order of when the screen was added
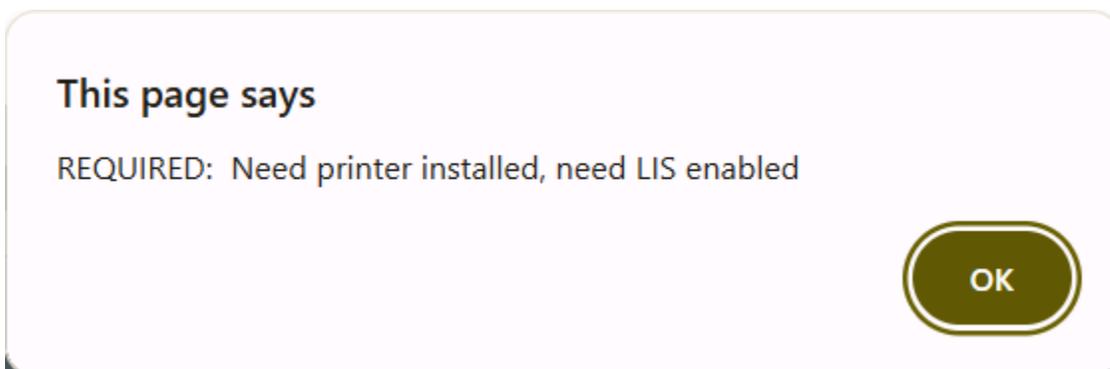
(4) AHK Code
- This window contains the single exact line of code the AHK script file will need to capture the selected screens
- The "Copy Code to Clipboard" button/link will copy the entire line into the clipboard (as a single line)
- This line of code will need to be pasted into the AHK script file
- The order of the screen IDs does not matter in this line of code

Notes and Alerts

Some screens will have a red note below the screen that says, "AHK Not Supported". There are a few reasons why certain screens are not supported. Attempting to manually add the screens to the AHK script file will always cause the automated control of the mouse and keyboard to act unexpectedly.

Note: Sometimes the T5000 code itself can be modified to support a certain screen that is marked as, "AHK Not Supported".

Some screens when clicking the "Add" button/link will generate a page alert. This alert will list the additional steps required in order for the screenshot to be captured. Usually the additional steps required will change what is on the screen itself. Not following these steps will cause the print screen to look different. Sometimes if the additional steps are not followed the automated control of the mouse and keyboard can act unexpectedly. It is not recommended to attempt to capture a screen without following all of the additional steps.

Selecting Screens

- Use the quick navigation to locate the category, screen name, or screen ID needed
- Click the "Add" button/link to add the screen to the list
- Repeat until all needed screens are added
- Lastly click the "Copy Code to Clipboard" button/link

AHK

Overview

AHK (AutoHotkey) is a lightweight, fully packaged software that can automate the control of the mouse and keyboard. The AHK software will run off of the singular AHK script file (HAPS.ahk). This file has been written to capture every[1] (possible[2]) screen of the T5000 GUI. Once the AHK software is running, the control of the mouse and keyboard will be fully automated to capture all the needed screens, in every language. This process usually takes one to three minutes per screen. Once every screen has been captured, the software will stop, and display an alert window that the process has been completed.

Note: It is critical that the operator not attempt to use the mouse or keyboard while the AHK script is running.
Note: The AHK script can be stopped at any time by pressing, "**Alt+Esc**" (this may have to be pressed multiple times depending on where in the process the software is.)
Note: The AHK script can also be stopped by right clicking the green, "H" AHK icon in the taskbar and selecting, "Exit".
Note: When the AHK script is stopped, an alert window will appear indicating the software has stopped.

[1]Currently the HAPS software supports 143 different screens from the Admin Options, Barcode Config, and Label Design categories.
[2]Some T5000 GUI screens can not be captured by the HAPS software.

Installation

- AutoHotkey v1.1 (1.1.37.02 - March 16, 2024) can be installed using the packaged .exe file
- Follow the on screen instructions to complete the installation
- On Windows 11, the icon in the taskbar that appears when AHK is running does not appear automatically
    - Going to the Windows Taskbar Settings will allow the operator to select the option to show the AHK icon

Screens

Before running the AHK script file, the operator must paste in the single line of code that contains the needed screens. This can be done by opening the AHK script file (HAPS.ahk) in any text editor, and pasting the line between the two lines that read, "Paste from Screen Selection Web Page" (see image below). After pasting the single line of code, save the file, and close the text editor.

```
42     ; Paste from Screen Selection Web Page ─────────────────→

43

44     _screens := [ "AO-000001" , "AO-000002" ]

45

46     ; Paste from Screen Selection Web Page ←─────────────
```

Advanced Options

Screen Resolution:
- Near the top of the AHK script file, there is an option to change the screen resolution (see Screen Resolution below)
- The default is 1.00

Language Count:
- Near the top of the AHK script file, there is an option to change the number of languages captured
- This should only be set to 1 or 23 (there are currently 23 total languages in the T5000 GUI)
  - If set to 1, the HAPS software will capture every screen in the language the T5000 is **currently** set to
  - If set to 1 and the current language is **not** English, then update the SINGLE_LANGUAGE variable
    - **Note:** There are no quotation marks around the language name

Screen Resolution

The default screen resolution of the T5000 GUI is 640x480, but when running in Demo Mode on different monitor sizes, that resolution can change. It usually correlates to the Windows Display Settings Scale percent (see image below). The variable at the top of

the AHK script file should be set to this scale percent. For example, if the Scale percent is "125%", the "RESOLUTION" variable near the top of the AHK script file should be set to "1.25".

Note: Watching the initial mouse movement when the AHK script first starts running will be the indicator if the resolution is set correctly. If the mouse does not move to the **center** of the intended button, press "**Alt+Esc**" to stop the AHK. Reopen the AHK script file, update the "RESOLUTION" variable, then save and close the file.

Preparing the T5000 GUI

- The T5000 GUI should be running in Demo Mode
- Ensure the Home screen is AutoLoader mode (**not** Small Batch mode)
- Press the Admin Options button
- Press the System Settings button
- Press the Language Button
- **Make sure the Language Selection screen is on the first page** (this page contains English as the third option)
- Click Cancel to return to System Settings
- Click Done to return to Admin Options
- Click Done to return to the Home screen
- This process also leaves both the Admin Options and System Settings on their first pages, which is **required**
- From the Home screen, press the Print Screen button on the keyboard
- Save this file as "temp.png" in and **empty** folder that you want **all** of the print screens to be saved in
  - **Note:** Having other screenshots already in this folder can cause the automated control of the mouse and keyboard to act unexpectedly
- *Pro Tip: After all of the screens are captured, sorting this folder by Time/Date will also sort it by language, since all the screens from one language are captured before moving on to the next language*

Running

- After pasting the screens line of code, and verifying the resolution and language count, make sure the AHK script file is saved
- Double click the AHK script file (HAPS.ahk)
- If the proper Windows Taskbar Settings were set, the green, "H" AHK icon should appear in the Windows Taskbar
- The AHK software is now running and waiting for the operator to initiate the start command
- The T5000 GUI should be running in Demo Mode, and currently on the AutoLoader home screen
- It is recommended to close all other windows at this time
- **NOTE BEFORE PROCEEDING:**
  - **It is critical that the operator not attempt to use the mouse or keyboard while the AHK script is running**
  - **To stop the AHK script at any time, press, "Alt+Esc" (this may have to be pressed multiple times depending on where in the process the software is)**
  - **The AHK script can also be stopped by right clicking the green, "H" AHK icon in the taskbar and selecting, "Exit"**
  - **When the AHK script is stopped, an alert window will appear indicating the software has stopped**
- Click the center of the T5000 GUI screen (see the green crosshair in the image below)
  - This does not have to be perfectly in the center; as long as the mouse is relatively close to center, all of the GUI buttons will be pressed
- Now press "**Alt+Q**" to run the AHK script

Completion

- Once every screen is captured, an alert window will be displayed indicating the process has been completed
- The AHK software will also automatically close
- The T5000 GUI may also now be closed
- The folder where the initial, "temp.png" was saved is where all of the newly captured print screens will be saved
- *Pro Tip: After all of the screens are captured, sorting this folder by Time/Date will also sort it by language, since all the screens from one language are captured before moving on to the next language*