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# Re-autocal from cams archives

I just recorded a 46-minute video that shows how to manually re-autocal sessions from the archives. In the last 16 minutes, I retested the steps for 03/05 and that went pretty quickly.

Here is the video link:

[http://davesamuels.com/cams/camsupdates/documentation/Re-autocal-from-archive-2023-10-12\\_1-16-53.mp4](http://davesamuels.com/cams/camsupdates/documentation/Re-autocal-from-archive-2023-10-12_1-16-53.mp4)

It's quite large - sorry.

## Steps to re-autocal from cams archives

If all you're after is updating all the calibrations for the session, follow these steps...

1. Use Total Commander for these instructions.
2. Unzip the selected archive zip file to a submissionfiles directory.
  - In the left pane of Total commander, navigate to the "D:\cams\_Archive\archived\_SubmissionFiles\" directory.
  - To make things easier to search, press **Ctrl+S** and enter: **2023\_??\_??\_009021\*.zip**. This will filter the list so that you don't accidentally process board 1 files - only board 0 files.
  - In the right pane of Total commander, navigate to the "D:\cams2\_board0\CAMS\SubmissionFiles\" directory.
  - In the left pane, hold the right mouse button down on the zip file for the selected session, and then select **Extract All**. The **Select a Destination and Extract Files** dialog appears.
  - Change the path to: "d:\cams2\_board0\CAMS\SubmissionFiles" (it's not case-sensitive)
  - Click the **Extract** button. A directory matching the session will appear in the "D:\Cams2\_Board0\CAMS\SubmissionFiles" directory. Also, an Explorer window appears in the target directory.
    - **Close that explorer window.**

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At this point, you have a directory matching the pre-archive state of that session. However, it's CapturedFiles directory will be devoid of FF\*.bin files. You will need to calibrate from the ArchivedFiles instead.

3. In the right pane, navigate to "**d:\cams2\_board0\cams\submissionfiles\[session]ArchivedFiles\[session]**", where [session] means the <date>\_<camera>\_<time> or <date>\_<time>.
4. **Sort** descending by date, and then **delete** all of the files **except** those that are in the **230000 to 235959** time. We do this because it is 10x faster to autocal. For example, with the 03/01 already successfully calibrated in 10 minutes, for 03/02 it autocal'd in less than a minute when only the 2300 set of files was used.

5. Recalibrate the camera for the selected [session].
  - o In a command shell, use the **CD** command to navigate to **D:\cams2\_board0\CAMS**. This is the directory where the FTP\_meteorcal\_autoupdate.exe is.

```
d:  
cd \cams2_board0\cams
```

- o Press the **Up arrow** if you have run it before. This will enter the command for you and then edit it to match your new source directory. For example, for 03/02/2023 you can do this:

```
ftp_meteorcal_autoupdate.exe -1 50 2.5  
d:\cams2_board0\cams\cal
```

- o Then use the GUI dialogs to navigate to the FF files directory (which in this case is **d:\cams2\_board0\cams\submissionfiles\2023\_03\_02\_009021\_17\_51\_38\archivedfiles\2023\_03\_02\_17\_51\_38**). Or, you could type that as the last command line argument. But it's a little more cumbersome. It takes about 1-10 minutes or so.

It also runs much quicker if the cmd.exe window is minimized, or at least mostly covered up.

6. Copy the CAL files to the FTP dir.
  - o In the right pane of Total commander, navigate to **d:\cams2\_board0\cams\submissionfiles\[session]ftp\**
  - o In the left pane of Total commander, navigate to **d:\cams2\_board0\cal\BinFiles\**

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- Press **Ctrl+S**, and enter: **cal\_009??\_20230302\_23\*.\*** to filter the directory for only the cal files for that session.
  - Use the **right mouse** click to select (selected files are red) files to copy.
  - Press **F5** to copy all the CAL files to the FTP dir.
7. Copy the FF\*.bin files that match the cal files to the FTP dir.
- Press **Ctrl+S** to filter all the FF\*.bin files for the session by changing the filter to: **FF\_009??\_20230302\_23\*.\***
  - Press **F5** to copy all the FF\*.bin files for the session to the FTP folder.
8. Copy the FTPdetectinfo file to the FTP directory.
- Navigate to the **d:\cams2\_board0\cams\submissionfiles\[session]\ArchivedFiles\[session]** directory
  - **sort** descending by date
  - right-click the **FTPdetectinfo\*.txt** file.
  - Press **F5** to copy the detectinfo file to the FTP directory.
9. Update the detectinfo file with the new calibrations:
- From the d:\cams2\_board0\cams> prompt, enter this command:

```
ftp_applycal2detectinfo
```

Then use the GUI dialog that appears to navigate to the ftpdetectinfo file. In this case, it would be the one in **"d:\cams2\_board0\cams\submissionfiles\[session]\FTP"**.

It applies the new cal files to the detect file and it produces a FTPdetectinfo\***C**.txt file.

- Rename the FTPdetectinfo\***C**.txt file to FTPdetectinfo\*.txt and select "Overwrite".  
(In Total Commander, you can hold the right-mouse button down on a file name and it will open a popup menu with a Rename option).

At this point, the **"d:\cams2\_board0\cams\submissionfiles\[session]\FTP"** directory is staged so that the upload\_queue.bat script can package it up and upload it to the nasa FTP server.

10. Delete the zip file for the session from the **d:\cams2\_queue\Transmitted** dir. We do this so that it will produce a new zip file for transmission.

11. Run the upload\_queue.bat script to perform the upload.

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- From a command shell in **d:\cams2\_queue\runfolder**, run:

`upload_queue.bat`

12. Update the archive zip file with the new FTP files.

- In Total Commander, in the left pane, navigate to "d:\cams\_Archive\archived\_SubmissionFiles".
- Double-click on the [session].zip file to open the zip file.
- In the zip file, navigate to the "[session]\FTP" directory.
- In the right pane, navigate to "d:\cams2\_queue\Transmitted".
- Then open the "[session].zip" file.
- Select all files and click the "F5 Copy" button to copy the FTP files into the archive zip.

13. Clean up

- In the right pane, navigate to "d:\cams2\_board0\cams\submissionfiles\".
- Delete the session that you just calibrated.