

ClearView db Data Logging with the Touch Panel

Continuous Data Logging

Turning channel data logging on from the *Continuous Data Logging* screen will save data to several files on the touch panel's Compact Flash at a one minute rate. Each one minute sample is averaged from multiple data updates during the minute. All of the file names end with a date code in the form "_YYMMDD". A new file is created at midnight for the next 24 hour period. See table below for a list of files are created from the continuous logging of data.

File Name	Description
LOG_A ANSWERS_YYMMDD.txt	Answer values 1 – 6 for channel A.
LOG_A COUNTS_YYMMDD.txt	Raw data counts for wavelengths 1-6 on channel A.
LOG_AU A_YYMMDD.txt	Absorbance values for wavelengths 1-6 on channel A.
LOG_DIAGS_YYMMDD.txt	Various diagnostic voltages from power supplies, lamp circuit and TE cooler circuits.
LOG_RD COUNTS_YYMMDD.txt	Raw data counts for wavelengths 1-6 on the Reference channel and Dark offsets.
LOG_TX A_YYMMDD.txt	Transmittance values for wavelengths 1-6 on channel A.

Single log entries

Sometimes data samples taken continuously are too difficult to work with as may be the case with lab work. Single data entries at a known time with known conditions may be more useful. Each time the Single Log Entry button is pressed an entry is made into the file names shown below.

File Name	Description
SINGLE A_AU_YYMMDD.txt	Absorbance values for wavelengths 1-6 on channel A.
SINGLE A_TX_YYMMDD.txt	Transmittance values for wavelengths 1-6 on channel A.

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Retrieving Log Data

Once data has been logged you can access the files using one of the methods listed below.

Copy the Logs to USB flash drive

1. Navigate to the Continuous Logging screen.
2. Press the **Copy Logs to USB** button.
3. Insert a USB Flash drive into the touch panel USB port.
4. Wait for the Flash drive to be recognized by the touch panel. This may take up to a minute.
5. Once USB memory is ready press the **Copy Logs to USB** button. Wait for copying to finish.
6. When copying is finished press the **Eject USB** button and remove the flash drive.
7. Log data will be located in the **EA_LogCopy** directory on the USB flash drive.

Remove the Compact Flash and Read it directly

Many personal computers have readers for Compact Flash built in. To read the Log data directly from Compact Flash follow the steps below. When using this method please use caution. The touch panel system files reside in the other directories on the Compact Flash. Delete only Log files.

1. Power down the ClearView db and touch panel.
2. Remove the Compact Flash from the top of the touch panel.
3. Insert into Compact Flash reader.
4. Navigate to **Compact_Flash_1/Log** directory on the Compact Flash.
5. Copy the log files.
6. If you would like to remove the Log files from the Compact Flash you may.
7. Do not remove any other files or directories from the compact Flash as this may render the touch panel inoperable.

Access the files with FTP using the Touch Panel Ethernet port.

This method requires installing an appropriate Ethernet cable and IP Address into the touch panel. Refer to the companion document **System Setup Screens.pdf** for configuration instructions. Once Ethernet communications to the touch panel has been established you can access the logging data by navigating to the touch panel with FTP. From Windows Explorer this can be done as follows.

In the following replace the IP Address 10.1.1.161 with the actual IP address of the touch panel you want to connect to.

1. Open a Windows Explorer Browser such as Documents or Computer.
2. In the address bar type **ftp://10.1.1.161/Compact_Flash_1/Log** and press enter.
3. A list of Logged files should appear.
4. Copy any or all of these files to a work area of your choice on your computer.
5. You may delete any of the files in the Log directory but do not change or delete any other files. Doing so may render your touch panel inoperable.
6. Close the FTP Connection with the touch panel.

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Log File Example Data

Log files are easy to open with Microsoft EXCEL. The following example will open an Absorbance log file in Excel.

1. In Excel Click **File>Open**. The open file browser will appear.
2. Navigate to the location of the log files copied from the touch panel.
3. Change the file type to **Text Files**.
4. Select the file to open. In this example we will open file name LOG_AU A 120504 (Absorbance log from 5/4/2012) .
5. Click Open.
6. The Text Import Wizard will appear.
7. Verify that the file type is set to Delimited.
8. Click Finish.

Example of Imported data log.

Date	ABSOR BANCE A 1	ABSOR BANCE A 2	ABSOR BANCE A 3	ABSOR BANCE A 4	ABSOR BANCE A 5	ABSOR BANCE A 6	ANALOGI NPUT 1 VALUE	ANALOGI NPUT 2 VALUE	ANALOGI NPUT 3 VALUE	ANALOGI NPUT 4 VALUE	TEMP ERAT URE	LAMP DETECTO R COUNTS
5/4/2 012 9:22	0.4297	0.4546 06	0	0	0	0	0	0	0	0	35.69 841	2714191
5/4/2 012 9:23	0.4297 97	0.4546 63	0	0	0	0	0	0	0	0	36.19 987	2713708
5/4/2 012 9:24	0.4298 79	0.4546 89	0	0	0	0	0	0	0	0	36.45 867	2713520
5/4/2 012 9:25	0.4299 38	0.4546 98	0	0	0	0	0	0	0	0	36.60 794	2713363
5/4/2 012 9:26	0.4299 85	0.4546 91	0	0	0	0	0	0	0	0	36.72 594	2713302
5/4/2 012 9:27	0.4300 29	0.4546 81	0	0	0	0	0	0	0	0	36.81 306	2713185
5/4/2 012 9:28	0.4300 66	0.4546 72	0	0	0	0	0	0	0	0	36.89 934	2713121
5/4/2 012 9:29	0.4301 03	0.4546 58	0	0	0	0	0	0	0	0	36.96 916	2713046
5/4/2 012 9:30	0.4301 39	0.4546 41	0	0	0	0	0	0	0	0	37.02 443	2713000