Pixel Download Program

SCREEN HD
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Data ordering conversion for High Speed Buddy module

HS-Buddy : 10bit data * 1088pixels

For every column data :

1. Raw data from CSV file

0	1	2	3	...	1086	1087

Each pixel data is 10bit amplitude level.
If CSV file is absent, or some pixel data is missing in the CSV file, amplitude and/or Vposition value will be zero.

2. Calibrated data

0	1	2	3	...	1086	1087

Each pixel value is converted to calibrated 10bit-DAC value.
Calibrated DAC value is provided by calibration CSV file.

3. Transfer data

0	1	544	545	2	3	546	547	4	5	548	549	6	7	550	551	...	542	543	1086	1087	...

16bit　4KByte　1920Byte

Each pixel value is 2-byte DAC value. Upper 6bits are zeroes.
Pixel ordering will be changed as shown above.
Append 1920byte NULL data to each column data.
Total data size for each column will be 4096byte.

Total transfer data size is 4KB*(Number of columns).