

What's New in DGF-4C Revision 3.08 (Released on 3/28/2007)

DGF-4C Viewer - IGOR Interface

- 1) Resolved a few overlooked incompatibility issues for certain functions related to IGOR PRO Version 5.0.

DGF-4C C Driver

No change.

Firmware

No change.

DSP code

- 1) Fixed bug in computation of constant fraction value in compressed list mode runs
- 2) Fixed bug in default DNL correction
- 3) Set SUMDAC value to 0xFFFF by default at powerup, not 0x7FFF.

Manuals

- 1) Updated user manual to point out maximum combined tracelength in compressed list mode runs (50 microseconds).
- 2) Fixed typo in programmer's manual: CAMAC read ICSR command is F1, A8 (not A9)

What's New in DGF-4C Revision 3.07 (Released on 10/26/2006)

DGF-4C Viewer - IGOR Interface

- 1) Added option to break up run into several files
- 2) Debugged "optimize" functions to not fill up virtual memory (tested on Win2K)
- 3) Updated XIA contact information
- 4) Added option to make synchronizing of clocks persistent in every new run.

DGF-4C C Driver

No change

Firmware

No change.

DSP code

No change.

Manuals

- 3) Updated XIA contact information.
- 4) updated online help for new functions

DGF-4C Revision 3.06: Limited release for user evaluation

What's New in DGF-4C Revision 3.05 (Released on 12/16/2004)

DGF-4C Viewer - IGOR Interface

- 2) Resolved a few incompatibility issues for certain functions related to IGOR PRO Version 5.0.
- 3) Improved memory management for certain DAQ functions in IGOR.
- 4) Made storing of .dat file (parsed list mode data) optional on the Data Record Option Panel.

DGF-4C C Driver

- 1) Made changes so that storing of .dat file can be turned on or off.

Firmware

No change.

Manuals

No change.

What's New in DGF-4C Revision 3.04 (Released on 01/26/2004)

DGF-4C Viewer - IGOR Interface

- 5) Added an energy filter optimization tool (accessible through "Settings" tab -> "Filter" group -> "Optimize" button) which can be used to find the optimal energy filter settings.
- 6) Added a few tools to aid the finding of decay time. The "Auto Find" tool now tries to measure the decay time 10 times then gives the average decay time and standard deviation Sigma from the average value. The "Manual Fit" tool can be used to do exponential fit on the untriggered ADC waveform from a given channel. The "Optimize" routine is an optimization tool which scans a range of decay times then gives the optimal decay time in terms of energy resolution.

DGF-4C C Driver

- 2) Enabled Level-1 Fast CAMAC transfer. In previous versions, only regular CAMAC transfer is available.

Firmware

No change.

Manuals

- 1) User's Manual
 - i. Removed Firewire interface from Features/Specifications part since it is not supported actively;
 - ii. Improved Section 4.1 so that the differences between various run types are better described;
 - iii. Updated Section 7.2 regarding clock distribution and Section 7.4 about busy-synch loop.
- 2) Programmer's Manual
 - i. Rewrote Section 2: DGF-4C C Driver;
 - ii. Changed Section 3's title to "Control DGF-4C Modules via DGF-4C C Driver" and added a new appendix section (Appendix B) to show how to program DGF modules using CAMAC commands;
 - iii. Added legal range of variable values in Table 3.6;
 - iv. Updated the descriptions of a few DSP variables in Section 4, e.g. COINCWAIT, XWAIT, etc.