z*OBSOLETE: Filming with Enhanced STG Mode

UNDER CONSTRUCTION

Filming Enhanced STG Mode (Keck XROMM Lab)

The Phantom camera software in the Keck Lab allows you to record video using either standard mode or enhanced STG mode. Enhanced STG should eliminate the grey lines ("fabric" pattern) or black lines that may appear on the videos, but limits the maximum frame rate to 330 frames per second (fps).

- To determine if you are filming in enhanced STG mode, check your maximum frame rate: if it is 330 fps, you are in enhanced. If it is greater than 330 fps, you are filming in standard.

To load the enhanced STG files:

1. Open the Phantom camera software, go to the Acquisition menu, and choose "Camera pool". Select the camera you want to change (Master = 8047, Slave = 8048), and press "Close".
2. Go back to the Acquisition menu, and choose "Restore NV memory". Click on the "Open STG file & Write to NV memory" button.
3. A window will open allowing you to browse to the file. Go to My Computer, C Drive, Back-up Phantom folder. If you are loading the files to an x-ray camera, select the Brown STG_for_use_with_V10 folder. If you are loading the files to a light camera, select the Brown STG_for_use_with_V09 folder.
4. Within the Brown STG folder, select the file that has the same serial number as the camera you chose from the camera pool (Master = 8047, Slave = 8048) and has the suffix "_ENH".
5. After selecting the correct file, press close and open the camera (use the Acquisition menu and select Setup and Recording). To confirm that you are now in enhanced STG mode, check that your maximum frame rate is now 330 fps.
6. Repeat steps 1-5 for all remaining cameras.

To switch from enhanced STG mode back to standard mode:

1. Follow steps 1-3 above. Within the Brown STG folder, select the file that has the same serial number as the camera you chose from the camera pool and has the suffix "_STD".
2. After selecting the correct file, press close and open the camera (use the Acquisition menu and select Setup and Recording). To confirm that you are no longer in enhanced STG mode, check that your maximum frame rate is now greater than 330 fps.
3. Repeat for all remaining cameras.

Note: When you reload the STG file, all camera settings go back to defaults. Reset resolution on X-ray cameras to 1760 x 1760.