

ScienceGL

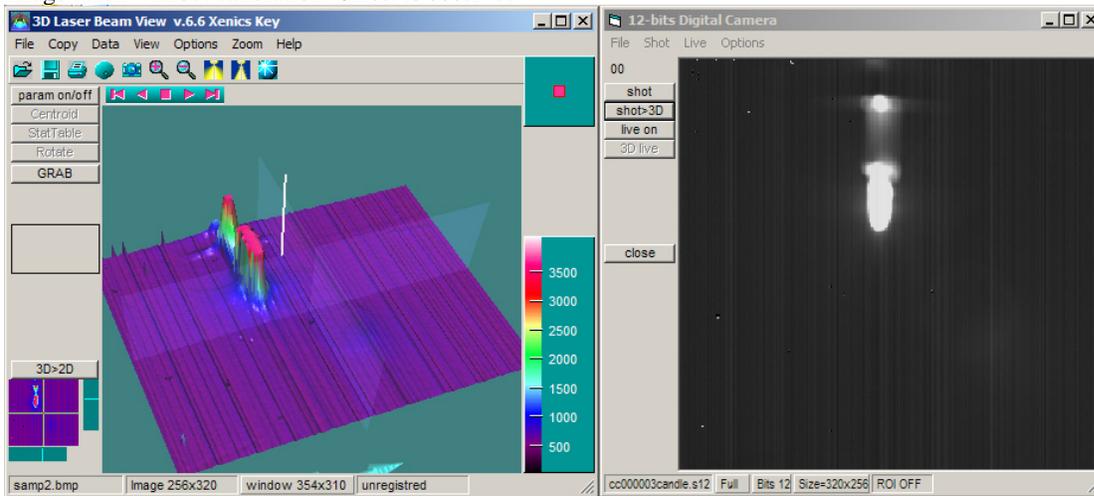
Laser Beam View Software

Camera Offset Calibration Manual

It is generally known that CCD cameras have specific offset due to different pixels properties. Also known as non-homogeneity of the field. This offset is individual for each specific camera. The offset should be calibrated for measuring applications like that of Laser Beam measurement. The procedure is quite simple. The user takes so called black-shot: i.e. an image with light blocked and later on this shot is used to take in account on offset of the pixel field of the camera. Below the procedure is demonstrated in detail, step by step.

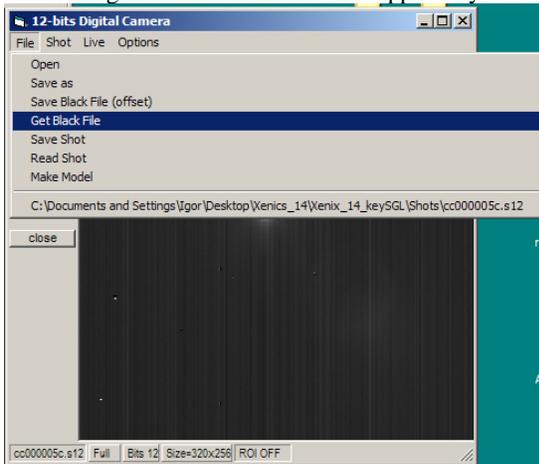
Step 1

Image taken without calibration. Offset is observed.



Step 2

Black image is loaded from the one supplied by manufacturer. Use File menu, follow Get Black File menu option.

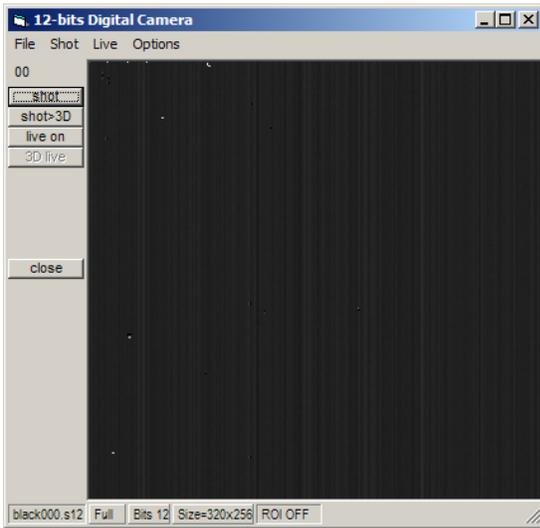


The image by default is stored in install folder:

C:\Program Files\programas\3D_LaserBeam_14_Xenics\shots\black000.s12

Step 3

If new image is necessary then one should take black-shot blocking all light input into the camera and pressing <shot> button at the camera form.



Now when black offset shot is ready one should save it from File menu. Follow menu Save Black File (offset).

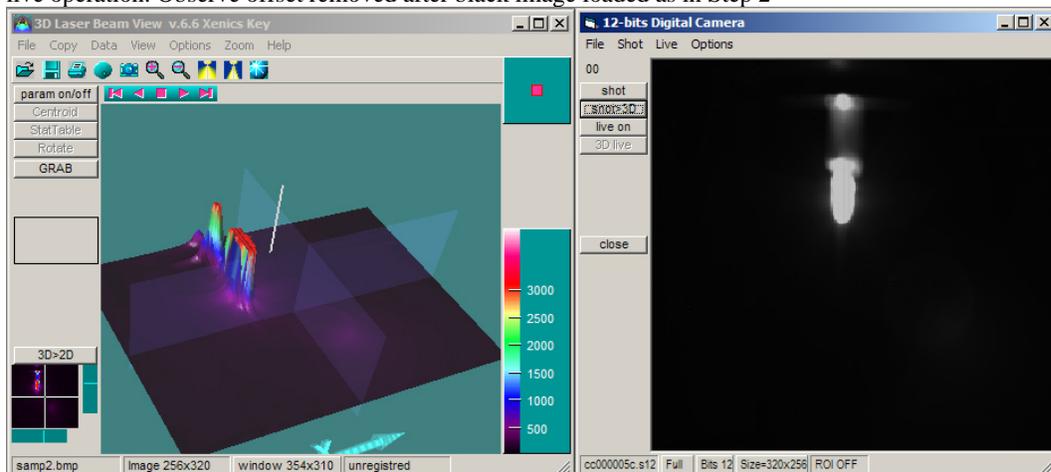
You will see warning message:



Press OK if your image was taken at no illumination conditions. After that this new shot will be used as default filer for offset calibration.

Step 4

After you loaded black offset calibration image it will be used to calibrate all following image in both single shot and live operation. Observe offset removed after black image loaded as in Step 2



Please contact us for more support

Copyright © 2000-2012 ScienceGL, Inc.