

Detailed functional tests for DAS/CCD3 software

FITS header (basic, by CCD3)

Date: 28/9 - 2009
 Author: Jacob Wang Clasen, NOT.
 Version: 28/9 - 2009, Initial version.
 13/11 – 2009, Comments by AiC.
 14/4 – 2010, Certain FITS keyword are no longer written by CCD3, but by the external FITS information module.

Test number	2
Test name	FITS header (basic, by CCD3)
Test document	02-test-FITS-HDR-int
Depends on test	
Requirements	The FITS keyword records shall be present in the image file in the correct (see “Criteria”) extensions and with the correct values of the different keywords.
Circumstances	– The CCD3 system shall be running, connected to a detector controller, controlling a CCD or reading out a dummy test pattern.
Test descriptions	<p><u>Subtest 2.1</u> A normal exposure (i.e. with the shutter open) of 5 seconds shall be made, using the command “exp 5”.</p> <p><u>Subtest 2.2</u> A dark exposure (i.e. with the shutter remaining closed) of 5 seconds shall be made, using the command “dark 5”.</p> <p><u>Subtest 2.3</u> A bias exposure shall be made, using the command “dark 0”.</p>
Criteria	<p>The result is acceptable and thus the test is PASSED when</p> <ol style="list-style-type: none"> 1) The FITS header in the image file resulting from subtests 2.1, 2.2 and 2.3 contains the keywords described in ref.6 of the ODF-TEST document and marked in this document as being collected by CCD3. (Addendum 1., 14/4-2010: with the exception of 'OBJECT', 'OBSERVER', 'IMAGETYP', 'OBS_MODE' and 'IMAGECAT' which will be created and updated via the external FITS information module). 2) The value of these keywords are consistent with the value of the detector/controller/software parameters they are representing. 3) The time the value of these keywords are obtained are the same as

	<p>indicated for each keyword in ref.6 of the ODF-TEST document. (See addendum 1.).</p> <ol style="list-style-type: none"> 4) The value of the FITS header keyword "IMAGETYP" is cleared internally in the CCD3 programme after the image is stored. (See addendum 1.). 5) The value of the FITS header keyword "IMAGETYP" is the argument of the command "IMTYPE" (the test of this command is described in test 5). (See addendum 1.). 6) The value of the FITS header keyword "OBS_MODE" is cleared internally in the CCD3 programme after the image is stored. (See addendum 1.). 7) The value of the FITS header keyword "OBS_MODE" is the argument of the command "OBSMODE" (the test of this command is described in test 5). (See addendum 1.). 8) The value of the FITS header keyword "IMAGECAT" is cleared internally in the CCD3 programme after the image is stored. (See addendum 1.). 9) The value of the FITS header keyword "IMAGECAT" is the argument of the command "IMAGECAT" (the test of this command is described in test 5). (See addendum 1.).
<p>Result</p>	<p><input type="checkbox"/> Test PASSED. Tested by _____ on ____ / ____ 20____ Signed _____</p>
<p>Notes</p>	

--	--