

Detailed functional tests for DAS/CCD3 software  
External real time image display  
(not a NOT requirement, but desirable)

Date: 23/10 - 2009  
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 Version: 23/10 - 2009, Initial version.  
 16/11 - 2009, Comments by AiC.

Test number	<b>12</b>
Test name	<b>External real time image display</b>
Test document	<b>12-test-image-display</b>
Depends on test	7, Transmission of CCD3 events (over Ivy bus) 8, Transmission of CCD3/controller/detector status (over Ivy bus)
Requirements	The real time image display shall display the image in the DS9 application as it is read out from the detector controller. After the readout is finished, the complete image shall be displayed in the DS9 application.
Circumstances	<ul style="list-style-type: none"> <li>- The CCD3 system shall be running, connected to a detector controller, controlling a CCD or reading out a dummy test pattern.</li> <li>- The external image display shall be started.</li> </ul>
Test descriptions	<u>Subtest 12.1:</u> The command "exp 10" shall be executed in the CCD3 command window.
Criteria	<p>The result is acceptable and thus the test is PASSED when</p> <ul style="list-style-type: none"> <li>- The external image display received Ivy messages containing information about the geometry (xsize, ysize, xbin, ybin) of the partially read out image on disk.</li> <li>- The external image display based on the geometry information can display the partially read out image on disk.</li> <li>- The external image display can re-read the partially read out image on disk every time a new geometry information message is received on the Ivy bus.</li> <li>- The external image display can re-read the completely read out image on disk when the final Ivy message containing the final, full geometry is received on the Ivy bus.</li> </ul>
Result	<input type="checkbox"/> Subtest 12.1 PASSED. Tested by _____ on ____ / ____ 20 ____ Signed _____

Notes