

Doc. Title.: XMM FOP
Doc. Ref.: XMM-MOC-PL-0022-SMD
Date : 28/05/98 14:56:04
Procedure. Ref.: FCP_OPM_1000 (0,1)

DRAFT

Issue : 0
Revision : 0

START OF OBSERVATION

Procedure Title: Start of Observation
Last Date Modified: 28/05/98 14:08:42
Author: Kate Adamson

Purpose of Procedure:

OM Start of Observation procedure executes the Field Acquisition (Low Res Full Frame exposure with V Filter).

This covers definition of full coverage image in low resolution using the V-Filter, loading of the 16 (32?) reference stars, acquisition of the field using the Acquire Field task. Priority Field Acquisition data is generated.

Initial State: OM ON in IDLE

Final State: OM ON in SCIENCE

Step	Time	Activity/Remarks	Command	TM Verification
		ED- OM ACQUIRE FIELD		
1		Move Filter Wheel to V Filter		
1 .1	00:00:00	Set Filter Wheel Number. Filter Wheel to be set to V-Filter - Filter number 1 (Filter Wheel parameter not in Database!)	HS6002 H7604 SET FW NUMBER	
1 .2	00:00:02	Move Filter Wheel to V-Position.	HS6002 H5600 MOVE FW	H2300= V-Filter H5265=1400
1 .3	00:02:00	Wait for Filter Wheel to Move. Check Filter Wheel move Event Report. (TBC) Packet ID TBC Inform DPU which Filter is in use.	HS6002 H7241 LOAD FILT CONF	
2		Set up Low Res Full Frame		
2 .1	00:00:02	Set Acquisition Mode to Low Resolution Full Frame. This sets up the MIC for full coverage in low resolution.	HS1110 H7130 LOAD ACQ MODE H0110=LO RES FULL	H5215=LO RES FULL

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2 .2	00:00:02	Load Window parameters to set up Full Frame. 4 windows defined in CCD centroided pixels (2048 by 2048) to cover the complete detector.	HS1110 H7110 LOAD WINDOW TAB H0010=ENABLED H0040=4 H0050=0 H0051=0 H0052=1023 H0053=1023 H0054=0 H0055=1024 H0056=1023 H0057=1024 H0058=1024 H0059=0 H0060=1024 H0061=1023 H0062=1024 H0063=1024 H0064=1024 H0065=1024	
2 .3	00:00:02	Start Load Window Task. Wait for Report that Window Table has been loaded. Packet 92100	HS1110 H5110 LOAD WINDOW TAB	H7000=WIN TAB LOAD
2 .4	00:00:02	Prepare DPU for acquiring low resolution data. Sets the DPU to acquire detector data in 1k*1k format (detector binned by 2)	HS1110 H7249 INIT EXPOSURE	
3		Load Reference Stars and set up exposure.		
3 .1	00:00:02	Set Exposure ID	HS1160 H7238 SET EXPOSURE ID H0530=99	
3 .2	00:00:02	Load 16 (32??) Reference Stars Reference Star position are as provided by PHS Tools. (Ref Star parameters NOT defined in DATABASE)	HS1160 H7240 LOAD REF STARS	
3 .3	00:01:00	Set the DPU Frame Time. Need to defined the number of DPU cycles where 1 DPU cylce = 0.001 seconds. - This should be set as a default for the Acquire Field ED. (TC parameter NOT defined in DATABASE) DOES EXP TIME NEED TO BE SET HERE?	HS1160 H7236 SET FRAME TIME	

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Step	Time	Activity/Remarks	Command	TM Verification
4		Acquire Acquisition field.		
4 .1	00:00:02	Start Detector Integration	HS1100 H5130 START DET INT	
4 .2	00:00:02	Acquire Field. Commence actual acquisition by DPU.	HS1100 H7250 ACQUIRE FIELD	
4 .3	00:01:00	Stop DPU Integration after x (TBD) minutes. Confirm the End of Acquire Field event has been received. Packet 92211. Priority Data DP_FAQ is received containing data on the Guide stars found. Packet 97402	HS1100 H6130 STOP DET INT	
5		END OF PROCEDURE		