



Test Plan Execution Report

Test Project: MATeF
Test Plan: Camera Payload

Printed by TestLink on 22/07/2018

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Test Project: MATeF

MATeF – 4 PayLoad Qualification Tests – External Camera Payload

Date	Tester
2018.07.22	Bence Góczán

Configuration:

MATeF – 4 External Camera Payload

Camera 1

WorldCamera (SJ4000 copy)
Still images
Controlled by UPRA-OBC

Camera 2

WorldCamera (SJ4000 copy)
1080p video, 1 minute clips
Free running

Test type:

Bench test

Summary

Test Suite	Test Case	Result	Notes
Camera Payload/Preconditions	matef-108:Batteries	Passed	
Camera Payload/Preconditions	matef-109:Camera Storage	Passed	
Camera Payload	matef-102:Operational Time	Failed	-Test should be re-run. -Camera 1 should be tested again -Camera 1 could be sufficient for a complete flight -Camera 2 could be suitable for ascend video capture -Reconsider Camera 2 specifications
Camera Payload	matef-105:Storage Capacity	Failed	-Camera 2 operational time was less than 2 hours -Camera 2 could be used with 8GB SD Card for ascend recording only -Camera 2 specifications should be reconsidered
Camera Payload	matef-106:Low Temperature Operational Time	Not Run	
Camera Payload	matef-107:Thermal Test	Not Run	

Preconditions

Test Case matef-108: Batteries

Summary:

Charge camera batteries for 3-5 hours

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Camera 1 battery charge time		6:39	Passed
2	Camera 2 battery charge time		6:39	Passed
Execution type:	Manual			
Priority:	Medium			
Execution Details				
Build	MATeF-4 Camera Payload - internal battery			
Tester	Bence Goczan			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (min):				

Test Case matef-109: Camera Storage

Summary:

Format and clear SD Cards

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Format Camera 1 SD Card	Card formatted to FAT-32		Passed
2	Clear Camera 1 SD Card	Card is empty		Passed
3	Camera 1 SD Card capacity		1.89GB	Passed
4	Format Camera 2 SD Card	Card formatted to FAT-32		Passed
5	Clear Camera 2 SD Card	Card is empty		Passed
6	Camera 2 SD Card capacity		7.38GB	Passed
7	Place SD Cards to cameras			Passed
8	Shoot test images with both cameras			Passed
9	Camera 1 last test image		PICT0005.jpg	Passed
10	Camera 2 last test image		MOVI0000.avi	Passed
Execution type:	Manual			
Priority:	Medium			
Execution Details				
Build	MATeF-4 Camera Payload - internal battery			
Tester	Bence Goczan			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (min):				

Tests

Test Case matef-102: Operational Time

Summary:

Check if the camera payload operational time at room temperature

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Camera 1 first image		PICT0006.jpg no images taken during test on the SD Card!	Failed
2	Camera 2 first image		MOVI0001.avi	Passed
3	Connect Camera 1 to UPRA-OBC			Passed
4	Start Time		12:48	Passed
5	Power up Camera 2	Control LED on		Passed
6	Power up UPRA-OBC	Camera 1 Control LED on Camera 1 Control LED blinks in every ?? seconds		Passed
7	Start recording on Camera 2	Camera 2 Control LED blinks (1?Hz)		Passed
8	Wait until both cameras shut down	Camera 1 LED off Camera 2 LED off	Camera 2 shut down due to battery Camrea 1 exceeded the specified operational time	Blocked
9	Camera 1 shut down time		16:26 - still operational, regular shut down	Passed
10	Camera 1 last image		NO IMAGES SAVED ON SD CARD!	Failed
11	Camera 1 Operational Time	t > 2 hours	3:38 (no images on SD card)	Passed
12	Camera 2 shut down time		14:05 - low battery shut down	Passed
13	Camera 2 last image		MOVI0074.avi	Passed
14	Camera 2 Operational Time	t > 2 hours	1:17 Operational time is near to burst time	Failed
Execution type:	Manual			
Estimated exec. duration (min):				
Priority:	Medium			
Execution Details				
Build	MATeF-4 Camera Payload - internal battery			
Tester	Bence Goczan			
Execution Result:	Failed			
Execution Mode:	Manual			
Execution duration (min):				
Execution notes	-Test should be re-run. -Camera 1 should be tested again -Camera 1 could be sufficient for a complete flight -Camera 2 could be suitable for ascend video capture -Reconsider Camera 2 specifications			

Test Case matef-105: Storage Capacity

Summary:

- Test if the storage capacity is sufficient for the mission.
- Determine the dataloss due to the overwrite feature in the camera

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Camera 1 first image		No images saved during test	Failed
2	Camera 2 first image		MOVI0001.avi	Passed
3	Connect Camera 1 to UPRA-OBC			Passed
4	Start Time		12:48	Passed
5	Power up Camera 2	Control LED on		Passed
6	Power up UPRA-OBC	Camera 1 Control LED on Camera 1 Control LED blinks in every ?? seconds		Passed
7	Start recording on Camera 2	Camera 2 Control LED blinks (1?Hz)		Passed
8	Wait until Camera 2 shuts down	Camera 2 LED off	Low Battery	Passed
9	Wait for Camera 1 planned shut down: <ul style="list-style-type: none">• Camera shut down triggered by UPRA-OBC 10?mins after BEACON mode	Camera 1 LED off	Function not used	Blocked
10	Camera 1 shut down time		16:26	Passed
11	Camera 1 last image		No images saved	Failed
12	Camera 1 overwritten images	less than 120	No images saved	Blocked
13	Camera 2 shut down time		14:05	Failed
14	Camera 2 last image		MOVI0074.avi	Passed
15	Camera 2 overwritten images	less than 10	0 Total space: 7.38GB Used space: 4.90GB Free space: 2.47GB	Passed
Execution type:		Manual		
Estimated exec. duration (min):				
Priority:		Medium		
Execution Details				
Build	MATeF-4 Camera Payload - internal battery			
Tester	Bence Goczan			
Execution Result:	Failed			
Execution Mode:	Manual			
Execution duration (min):				
Execution notes	-Camera 2 operational time was less than 2 hours -Camera 2 could be used with 8GB SD Card for ascend recording only -Camera 2 specifications should be reconsidered			

Test Case matef-106: Low Temperature Operational Time	
<u>Summary:</u> <ul style="list-style-type: none"> • Check operation at low temperatures • Compare operation time at low temperatures and room temperature 	
<u>Execution type:</u>	Manual
<u>Estimated exec. duration (min):</u>	
<u>Priority:</u>	Medium
Execution Details	
<u>Execution Result</u>	Not Run

Test Case matef-107: Thermal Test	
<u>Summary:</u> <p>Standard Thermal Test for the Camera Payload</p>	
<u>Execution type:</u>	Manual
<u>Estimated exec. duration (min):</u>	
<u>Priority:</u>	Medium
Execution Details	
<u>Execution Result</u>	Not Run