

IMU Calibration Certificate  
No: LCI-100C 1130



For

**Aero Photo Europe Investigation**

Aérodrome de Moulins-Montbeugny  
ZA Les Corats  
TOULON-SUR-ALLIER, 03400

France

Product: LCI-100C PN: 153300-1000 MOD: 002 SN: 1130  
Config-ID: 1011

**TESTER CONFIGURATION:**

Peripheral:	A000		
Computer:	IMP130	PN: 309442-5001-001	Rev: B
Fixture ID:	91	Slot: 1	Pos: 1
Adapter:	SN: 1003	PN: 309327-7700-000	Rev: B
Basis SW:		PN: 309186-1001	Rev: A
Appl. SW:		PN: 309943-2000-000	Rev: G
IAS:		PN: 309197-1013-882	Rev: A(3.52)
Operator:	Default Operator		
Comment:	Default Comment		

**TEST RESULT:**

Start CFG:	06/12/2016, 13:43	End CFG:	06/12/2016, 13:43
Number Tests:	6	Tests passed:	6
Fails:	0	Overall Test Result:	<b>PASS</b>

Operator: Name: Burgert Signature, Stamp: [Signature] Date: 6.12.16

ATP Base Unit PN: 153310-0401 SN: 1123

Pass: ☒ Fail: ☐

Name: \_\_\_\_\_ Signature, Stamp: \_\_\_\_\_ Date: \_\_\_\_\_  
NG LITEF QA: HUMM [Signature] 07. DEZ. 2016

UUT PN: 153300-1000 MOD: 002 SN: 1130

**Result Summary:**

<i>Testreference:</i>	<i>Date:</i>	<i>Result:</i>
Setup IFBOX	06/12/2016, 13:43	<b>pass</b>
Switch UUT on	06/12/2016, 13:43	<b>pass</b>
Configure UUT	06/12/2016, 13:43	<b>pass</b>
HDLC Interface	06/12/2016, 13:43	<b>pass</b>
Read Default Information	06/12/2016, 13:43	<b>pass</b>
Switch off UUT	06/12/2016, 13:43	<b>pass</b>

**Detailed Results:**

	<i>L. Limit</i>	<i>Result</i>	<i>U. Limit</i>	<i>Unit</i>	
<u>Setup IFBOX</u>					Date: 06/12/2016, 13:43 Test: <b>pass</b>
<u>Switch UUT on</u>					Date: 06/12/2016, 13:43 Test: <b>pass</b>
Current at +27.56 V	0.200	<b>0.388</b>	0.750	A	<b>pass</b>
<u>Configure UUT</u>					Date: 06/12/2016, 13:43 Test: <b>pass</b>
CRC of UI-Data	0x15E42A37	<b>0x15E42A37</b>			<b>pass</b>
UCrcXor		<b>0</b>			
UCrcStart		<b>0</b>			
UCrcPoly		<b>33568</b>			
UCRCDef		<b>220</b>			
UParity		<b>0</b>			
UStop		<b>1</b>			
UMsgID		<b>128</b>			
SyncFreq		<b>500</b>			
UBaud		<b>33792</b>			
TransRate		<b>33920</b>			
SyncOut		<b>21327</b>			
RES		<b>0</b>			
UEnable		<b>8</b>			
<u>HDLC Interface</u>					Date: 06/12/2016, 13:43 Test: <b>pass</b>
Number of Bytes	35	<b>35</b>			<b>pass</b>
Gyro Status	0x00000000	<b>0x00000000</b>			<b>pass</b>
Accel Status	0x00000000	<b>0x00000000</b>			<b>pass</b>
Number of Bytes	42	<b>42</b>			<b>pass</b>
Message ID	43	<b>43</b>			<b>pass</b>
<u>Read Default Information</u>					Date: 06/12/2016, 13:43 Test: <b>pass</b>
UUT-PN		<b>153300-1000-002</b>			
UUT-SN		<b>1130</b>			
UUT-REV		<b>C</b>			
<u>Switch off UUT</u>					Date: 06/12/2016, 13:43 Test: <b>pass</b>

**GNSS/IMU Performance (Calibration Flight 03.03.2017)**

Angular Accuracy:

Component	StDev Omega [deg]	StDev Phi [deg]	StDev Kappa [deg]
IMU	0.0028	0.0015	0.0013

Position Accuracy:

Component	StDev X [m]	StDev Y [m]	StDev Z [m]
GNSS	0.0027	0.0271	0.0099

Camera: LCI-100C  
Manufacturer: Northrup Grumman LITEF GmbH  
Serial Number: 1130  
Date of Calibration Flight: 15. March 2017  
Date of Report: 28. March 2017

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This GNSS/IMU system is certified by Leica Geosystems Technologies and is fully functional within its specifications and tolerances.

Date of Calibration: March 2017

Date of Certification: March 2017



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