

Calibration Protocol LCI-100C



IMU Calibration Certificate No: LCI-100C 1136



For

Peregrine Aerial Surveys, Inc.

#201 1255 Townline Road Abbotsford, B.C. V2T 6E1

Canada

Product:	LCI-100C	PN: 153300-1000 MOD: 002 Config-ID: 1011	SN: 1136
	FIGURATION:		
Peripheral:	A000		
Computer:	IMP087	PN: 309442-5003-001	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: IAS:		PN: 309943-2000-000	Rev: G
Operator:	Default Operator	PN: 309197-1013-882	Rev: A(3.52)
Comment:	Default Operator Default Comment		
TEST RESULT	Γ:		
Start CFG:	13/02/2017, 12:57	End CFG: 13/02/2017, 12:5	8
Number Tests:	6	Tests passed: 6	
Fails:	0	Overall Test Result:	PASS
	Burget	Signature, Stamp:	Date:
Operator:	Burger		13.02.17 3566
ATP Base U	Unit PN: 153310-0401 SN: 1129	Pass:	Fail:
	Name:	Signature, Stamp:	Date:
NG LITEF	oa:	4. 1/2 C	1 5. FEB. 2017
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UUT PN: 153300-1000 MOD: 002 SN: 1136

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Result Summary:

Northrop Grumman LITEF GmbH

Data Sheet PN: 153310-0000-390 Rev: E

result Summary.		
Testreference: Setup IFBOX Switch UUT on Configure UUT HDLC Interface Read Default Information Switch off UUT	Date: Result: 13/02/2017, 12:57 pass 13/02/2017, 12:57 pass 13/02/2017, 12:58 pass	*
Detailed Results:		
	L. Limit Result U. Limit Unit	
Setup IFBOX	Date: 13/02/2017, 12:57 Test: pas	<u>is</u>
Switch UUT on Current at +27.57 V	Date: 13/02/2017, 12:57 0.200 0.389 0.750 A Test: pas	
Configure UUT CRC of UI-Data	Date: 13/02/2017, 12:58 Test: pas 0x4AA628DA 0x4AA628DA pas	
UCrcXor UCrcStart UCrcPoly UCRCDef UParity UStop UMsgID SyncFreq UBaud TransRate SyncOut RES UEnable	0 0 33568 220 0 1 128 500 33792 33920 21327 0 8	
HDLC Interface Number of Bytes Gyro Status Accel Status Number of Bytes Message ID	Date: 13/02/2017, 12:58 Test: pas 35 35 0x000000000 0x000000000 0x000000000 pas 42 42 43 43 Test: pas pas pas pas	s s s
Read Default Information UUT-PN UUT-SN UUT-REV	Date: 13/02/2017, 12:58 Test: pas: 153300-1000-002 1136 C	š
Switch off UUT	Date: 13/02/2017, 12:58 Test: pass	<u> </u>

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GNSS/IMU Performance (Calibration Flight 13.06.2017)

Angular Accuracy:

Component	StDev Omega [deg]	StDev Phi [deg]	StDev Kappa [deg]
IMU	0.0019	0.0024	0.0012

Position Accuracy:

Component	StDev X [m]	StDev Y [m]	StDev Z [m]
GNSS	0.0551	0.0438	0.0203

Camera: LCI-100C

Manufacturer: Northrup Grumman LITEF GmbH

Serial Number: 1136

Chr. 17-1105

Date of Calibration Flight: 13. June 2017

Date of Report: 21. June 2017

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

Date of Calibration: June 2017 Date of Certification: June 2017

Dipl.Ing. Christian Mueller, Product Manager Dipl.Ing. Gerald K

Dipl.Ing. Gerald Kapoun, Technical Consultant

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