

CERTIFICATE OF CONFORMITY

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VBOX JAPAN

Issued by:

VBOX JAPAN Inc.

203 Ka-Sa Toriyama,
237 Kohokuku, Yokohama,
Kanagawa, Japan 222-0035

Certificate No.
20190607-01

Date of issue
7 Jun 2019

TEL: +81-45-475-3703

Customer: VBOX JAPAN
Equipment: VBOX Inertial Measurement unit
Model: RLVBIMU04
Serial No.: 33404
Manufacturer: Racelogic
Temperature: 25°C
Humidity: 55%
Engineer: Tasuku Miyazawa

Calibration Procedure

The unit under test was subjected to the Racelogic VBOX IMUxx Calibration procedure.
This procedure covers measured Gyroscope and Accelerometer test in all axis.

Result

We certify your calibration results are as the following page.

Calibration Engineer

VBOX JAPAN 株式会社

宮澤 輔 〒222-0035 神奈川県横浜市港北区鳥山町237番地 カーサー鳥山202
TEL 045-475-3703 FAX 045-475-3704



- This certificate satisfies the the Racelogic VBOX IMUxx Calibration requirements.
- Becuase of there is NO standard for Gyroscope, this certificaté is NOT traceble to national standards.
- Gyroscope was tested by turntable, which was cross checked with Racelogic turntable.
- Accelerometer was subjected to earth gravity 1.000G.

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Gyroscope Result

< X Axis >

Unit type: IMU04 Serial: 33404
Date: 07/06/2019 Time: 4:42:50

X Axis speed (deg/s)	Measured (deg/s)	Error (deg/s)	Error_Zero bias adjusted (deg/s)
0.00	-0.216	-0.216	0.000
10.00	9.795	-0.205	0.011
-10.00	-10.227	-0.227	-0.011
20.00	19.811	-0.189	0.027
-20.00	-20.24	-0.240	-0.024
50.00	49.854	-0.146	0.070
-50.00	-50.283	-0.283	-0.067

< Y Axis >

Unit type: IMU04 Serial: 33404
Date: 07/06/2019 Time: 3:18:03

Y Axis speed (deg/s)	Measured (deg/s)	Error (deg/s)	Error_Zero bias adjusted (deg/s)
0.00	0.041	0.041	0.000
10.00	10.017	0.017	-0.024
-10.00	-9.964	0.036	-0.005
20.00	20.018	0.018	-0.023
-20.00	-19.952	0.048	0.007
50.00	49.984	-0.016	-0.057
-50.00	-49.915	0.085	0.044

< Z Axis >

Unit type: IMU04 Serial: 33404
Date: 07/06/2019 Time: 2:17:43

Z Axis speed (deg/s)	Measured (deg/s)	Error (deg/s)	Error_Zero bias adjusted (deg/s)
0.00	-0.015	-0.015	0.000
10.00	9.992	-0.008	0.007
-10.00	-10.015	-0.015	0.000
20.00	19.983	-0.017	-0.002
-20.00	-20.014	-0.014	0.001
50.00	49.993	-0.007	0.008
-50.00	-50.015	-0.015	0.000

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Accelerometer Result

Unit type: IMU04 Serial: 33404
 Date: 07/06/2019 Time: 6:03:00

< X Axis >

Angle from horizontal (deg)	Expected (G)	Measured (G)	Error (G)	Error_Zero bias adjusted (G)
0	0.0000	-0.0079	-0.0079	0.0000
30	0.5000	0.4932	-0.0068	0.0011
60	0.8660	0.8629	-0.0031	0.0048
90	1.0000	1.0013	0.0013	0.0092
-30	-0.5000	-0.5003	-0.0003	0.0076
-60	-0.8660	-0.8652	0.0008	0.0087
-90	-1.0000	-0.9974	0.0026	0.0105

< Y Axis >

Angle from horizontal (deg)	Expected (G)	Measured (G)	Error (G)	Error_Zero bias adjusted (G)
0	0.0000	0.0006	0.0006	0.0000
30	0.5000	0.4980	-0.0020	-0.0026
60	0.8660	0.8631	-0.0029	-0.0035
90	1.0000	0.9962	-0.0038	-0.0044
-30	-0.5000	-0.4965	0.0035	0.0029
-60	-0.8660	-0.8647	0.0013	0.0007
-90	-1.0000	-1.0015	-0.0015	-0.0021

< Z Axis >

Angle from horizontal (deg)	Expected (G)	Measured (G)	Error (G)	Error_Zero bias adjusted (G)
0	0.0000	0.0087	0.0087	0.0000
30	0.5000	0.5072	0.0072	-0.0015
60	0.8660	0.8697	0.0037	-0.0050
90	1.0000	0.9982	-0.0018	-0.0105
-30	-0.5000	-0.4955	0.0045	-0.0042
-60	-0.8660	-0.8632	0.0028	-0.0059
-90	-1.0000	-1.0000	0.0000	-0.0087