



QUANTA LABORATORIES

3199 De La Cruz Boulevard • Santa Clara, CA 95054-2483

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Certificate of Conformance

This is to certify that the results from the test(s) requested by
inSync MEMS Mirror Array are on file under

Quanta Laboratories Job No. QL-21-0763 and conform
to the specification(s) stated in P.O. No. 121708

These results apply to the following equipment and are
available for review upon request.

Model No: M20P3

S/N: N/A

Random Vibration Test



Maris Delos Reyes
Quanta Laboratories

Maris Delos Reyes
Quanta Laboratories

08/20/2021
Date

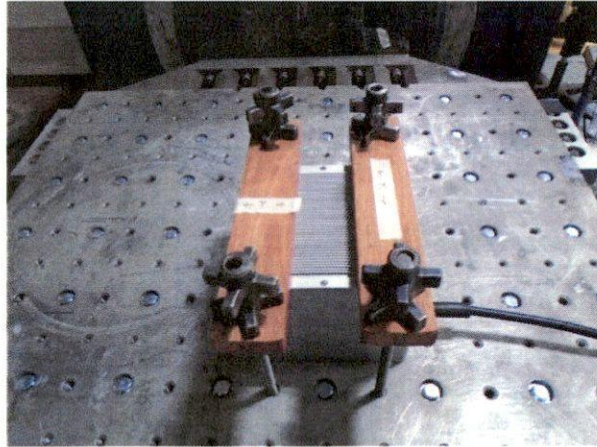
RANDOM VIBRATION TEST DATA



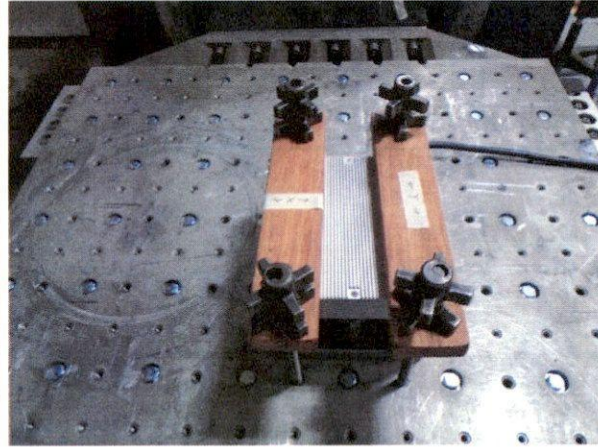
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CLIENT:			P.O. NO: 121708	
SPECIMEN: M20P3			JOB NO: QL-21-0763	
SPECIFICATION: Client's Specification			PAGE 1 OF 1	
EQUIPMENT: White/Grey		TEMPERATURE: 24°C	HUMIDITY: 43%	
DATE	S/N	AXIS	FREQUENCIES & LEVELS	REMARKS
8/10/2021	N/A	X	Random Vibration Test: (10—1000Hz) 10Hz @ 0.040871205(Gn) ² /Hz 400Hz @ 0.000272475 (Gn) ² /Hz 1000Hz @ 0.000272475(Gn) ² /Hz Overall: 1G rms / axis Duration: 5 minutes / axis	Operational Test Test completed to specification requirements.
		Y	10Hz @ 0.163484819(Gn) ² /Hz 400Hz @ 0.001089899 (Gn) ² /Hz 1000Hz @ 0.001089899(Gn) ² /Hz Overall: 2G rms / axis Duration: 5 minutes / axis	
		Z	10Hz @ 0.311946347(Gn) ² /Hz 400Hz @ 0.002079642 (Gn) ² /Hz 1000Hz @ 0.002079642(Gn) ² /Hz Overall: 3G rms / axis Duration: 5 minutes / axis	
				DEFINITION OF AXES
				See Photos Page
TEST ENGINEER: Po Feng Chen			<i>PLC</i>	DATE:

Random Vibration Test



X-Axis



Y-Axis



Z-Axis

QL-TLS-152

10/26/2018

JOB NO. : QL-21-0763

QUANTA LABORATORIES EQUIPMENT LIST



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Client:		P.O. NO: 121708				
		JOB NO.: QL-21-0763				
DIGITAL SYSTEM LIST						
Device Type	Description	Make & Model	Range	Asset #	Serial #	Due Date
Shaker Control System	VC-22	ECON VT-9008 8 Inputs	0.1Hz - 3 KHz RES. 0.1dB	QL-0913	227578166	
MECHANICAL SYSTEM LIST						
Device Type	Description	Make & Model	Range	Asset #	Serial #	Due Date
Shaker Amplifier	White	ETS MPA409		QL-0925	1210366	Calibration Not Required
Electrodynamic Shaker	White	ETS G7800 M	5Hz - 3 KHz, 4"	QL-0919	SH1210366	Calibration Not Required
Electrodynamic Shaker	Grey Shaker - DongLing	DongLing ES-40LS4-445	5Hz - 3 KHz, 4"	QL-1191	D1704132-2	Calibration Not Required
Shaker Amplifier	Grey Shaker - DongLing	DongLing SDA-40		QL-1192	D1704132-1	Calibration Not Required
SENSOR LIST						
Device Type	Description	Make & Model	Range	Asset #	Serial #	Due Date
Accelerometers	Single-Axial	DYTRAN 3256A2	5~2000 Hz 50 G	QL_0874	10893	
Accelerometers	Single-Axial	DYTRAN 3030B4	20~3000 Hz 500 G	QL-1023	20087	
Miscellaneous List						
Device Type	Description	Make & Model	Range	Asset #	Serial #	Due Date
Temp Humidity Sensor	ambient room monitor#2 (Control rm 4)	Acurite 06038MA1	32°F to 122°F; 0°C to 50°C 16% - 98% RH (relative humidity)	QL-1337	Q41	
Customer-Supplied Equipment						
Device Type	Description	Make & Model	Range	Asset #	Serial #	Due Date

Notes

1. This report may not be reproduced, except in full, without written approval by Quanta Laboratories.
2. The information in this report applies only the items tested or calibrated.
3. Measurements in this report are traceable to SI units via national standards maintained by NIST or derived from acceptable values of natural physical constants that comply with ISO 17025:2017 and A2LA requirements.
4. In Tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement.
5. The estimated measurement uncertainty (EMU), if reported on this certificate, is being reported at a confidence level of 95% or K=2 unless otherwise noted in the comments section.



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Quanta Laboratories Test Report

Quanta Laboratories submits this report with our Certificate of Conformance to the requirements of the applicable specifications and with appropriate supporting data, but with no other expressed or implied warranty. Customer assumes full responsibility when using or interpreting the data herein for evaluation and/or reporting purposes. The contents of this report apply only to the sample(s) as received and were provided to Quanta Laboratories by the Customer. Sampling methods are unknown unless data is provided by the Customer.

Quanta Laboratories is only responsible for the processes and data resulting from testing at Quanta Laboratories. Quanta Laboratories is not responsible for verifying data supplied by the Customer. Customer supplied data, equipment, items, and personnel are identified in the report by the symbol "*" and accompanying footnote.

Revision Number	Revised Date	Revised by	Description of Revision

Client Contact Information	
Name	Yufeng Hou
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E-mail Address	

End of Report
QL-21-0763
